

# Ahsay Cloud Backup Suite 9.5

## API Guide

Ahsay Systems Corporation Limited

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## Revision History

Date	Descriptions	Version																		
June 19, 2020	Password complexity requirements for system users affects all API if Admin feature enabled. For further details, see Ch. 3.3.2 (UpdateSysUser)	V8.3.4																		
May 13, 2021	The following attributes will no longer be displayed in any API responses: <table border="0" style="width: 100%; border-collapse: collapse;"> <tr> <td style="border-right: 1px solid black; padding-right: 10px;">"AllowMultiple"</td> <td>"Priority"</td> </tr> <tr> <td style="border-right: 1px solid black; padding-right: 10px;">"Attributes"</td> <td>"ReadLock"</td> </tr> <tr> <td style="border-right: 1px solid black; padding-right: 10px;">"AttributeList"</td> <td>"SubKeyList"</td> </tr> <tr> <td style="border-right: 1px solid black; padding-right: 10px;">"AttributeSize"</td> <td>"SubKeys"</td> </tr> <tr> <td style="border-right: 1px solid black; padding-right: 10px;">"Content"</td> <td>"SubKeySize"</td> </tr> <tr> <td style="border-right: 1px solid black; padding-right: 10px;">"InheritParentAttribs"</td> <td>"Values"</td> </tr> <tr> <td style="border-right: 1px solid black; padding-right: 10px;">"IPriority"</td> <td>"ValueList"</td> </tr> <tr> <td style="border-right: 1px solid black; padding-right: 10px;">"KeyName"</td> <td>"ValueSize"</td> </tr> <tr> <td style="border-right: 1px solid black; padding-right: 10px;">"NestedValues"</td> <td>"WriteLock"</td> </tr> </table>	"AllowMultiple"	"Priority"	"Attributes"	"ReadLock"	"AttributeList"	"SubKeyList"	"AttributeSize"	"SubKeys"	"Content"	"SubKeySize"	"InheritParentAttribs"	"Values"	"IPriority"	"ValueList"	"KeyName"	"ValueSize"	"NestedValues"	"WriteLock"	V8.5
"AllowMultiple"	"Priority"																			
"Attributes"	"ReadLock"																			
"AttributeList"	"SubKeyList"																			
"AttributeSize"	"SubKeys"																			
"Content"	"SubKeySize"																			
"InheritParentAttribs"	"Values"																			
"IPriority"	"ValueList"																			
"KeyName"	"ValueSize"																			
"NestedValues"	"WriteLock"																			
January 25, 2022	Ch 2.3 Read-Only API User	V9.1.0.0																		
January 25, 2022	Deduplication: Ch 3.4.6 (ListPolicyGroups v1,v2) Ch 3.4.9 (UpdatePolicyGroups v1,v2) Ch 4.1.6 (UpdateUserProfile (v1) / UpdateUser (v2)) Ch 4.1.8 (AddUser v1,v2) Ch 4.1.9 (GetUser v1,v2) Ch 4.2.1 (UpdateBackupSet v1,v2) Ch 4.2.20 (GetBackupSet v1,v2)	V9.1.0.0																		
January 25, 2022	New System API: Ch 3.1.1 (GetBuildingStatus) Ch 3.1.2 (GetDataMigrationProgress) Ch 3.1.3 (GetReplicationStatus) Ch 3.1.4 (GetSystemStatus) Ch 4.1.14 (GetServerRunJobStatus)	V9.1.0.0																		
January 28, 2022	Ch 4.2.1 (UpdateBackupSet v2)	V9.1.0.0																		
February 18, 2022	ReminderSettings Ch. 3.4.6 (ListPolicyGroups) Ch. 4.2.1 (UpdateBackupSet) Ch. 4.2.20 (GetBackupSet)	V9.1.0.0																		
May 4, 2022	Document template	V9.1.0.0																		
May 11, 2022	Ch. 4.2.6 (AddSchedule) Ch. 4.2.7 (UpdateSchedule)	V9.1.0.0																		
May 24, 2022	Rename descriptions from "Office 365", to "Microsoft 365". No change to API Keys.	V9.1.4.0																		
July 17, 2022	Ch 3.2.8 (AddPredefinedDestination) Ch 4.2.20 (GetBackupSet v1,v2)	V9.3.2.0																		

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September 13, 2022

Quota Type and Enable AUA:  
Ch. 3.2.1 (UpdateSystemSetting)  
Ch. 3.2.3 (GetSystemSettings)  
Ch. 3.4.6 (ListPolicyGroups)  
Ch. 3.4.9 (UpdatePolicyGroup)  
Ch. 4.1.1 (ListUsers)  
Ch. 4.1.6 (UpdateUser)  
Ch. 4.1.8 (AddUser)  
Ch. 4.1.9 (GetUser)  
Ch. 4.1.15 (UpdateAUA)


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V9.5.0.0

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# 1 Overview

## 1.1 Conventions

List of notations used throughout this document.

Convention	Descriptions	Example
<b>Bold</b>	Important Information	<b>WARNING: Text</b>
<i>Italic</i>	Folder Path	<i>/usr/local/cbs/conf</i>
[ ]	Graphical Interface Elements	[Manage Log]
%%	Filepath in Windows format	%CBS_HOME%
\$	Filepath in Linux/Unix/BSD format	\$CBS_HOME
<i>italic</i>	Command	<i>mkdir /usr/local/cbs</i>

Notation that are used specifically for API section:

Convention	Descriptions
<Text Inside angle brackets>	Placeholder for which you must supply a value.
[Text inside square brackets]	Optional items.
{Text insides braces}	Set of required items; choose one.
Vertical bar ( )	Separator for mutually exclusive items; choose one.
Ellipsis (...)	Items that can be repeated.
<b>Bold</b>	All the keys defined in the parameter section or the JSON objects are mandatory.

The API or parameters are available (updated) since this version shown for each API:

Available since version:
9.1



## 1.2 Definitions, Acronyms and Abbreviation

Term/Abbreviation	Definition
AhsayCBS	Ahsay™ Cloud Backup Suite
AhsayOBM	Ahsay™ Online Backup Manager
AhsayACB	Ahsay™ A-Click Backup
CBS_HOME	The install location of AhsayCBS.  <u>Windows</u> C:\Program Files\AhsayCBS  <u>Linux</u> /usr/local/cbs/
CONF_HOME	The directory to store AhsayCBS configuration files.  <u>Windows</u> %CBS_HOME%\conf  <u>Linux</u> \$CBS_HOME/conf
USER_HOMES	The directories where AhsayCBS store the AhsayOBM & AhsayACB users accounts.  The default location is: %CBS_HOME%\users
POLICY_HOME	The directory where AhsayCBS store its system users and group policy information.  <u>Windows</u> %CBS_HOME%\system\policy  <u>Linux</u> \$CBS_HOME\system\policy
SYSTEM_HOME	The directory where AhsayCBS store its system information.  <u>Windows</u> %CBS_HOME%\system\  <u>Linux</u> \$CBS_HOME\system\
WEBAPPS_HOME	Location of the webapps directory inside the installation directory of AhsayCBS.  <u>Windows</u> %CBS_HOME%\webapps.  <u>Linux</u> \$CBS_HOME/webapps
RECEIVER_HOME	The location where the replicated data is stored for a particular replication receiver.
JAVA_HOME	The location where JAVA is installed

## 2 Introduction

AhsayCBS contains a set of APIs (Application Programming Interface), which allows you to integrate your own or external applications (e.g. billing system or automated registration system) with AhsayCBS.

This chapter describes what APIs are available and how you can invoke different APIs.

### 2.1 Overview

AhsayCBS comes with a set of REST APIs which is JSON (JavaScript Object Notation) based JavaScript syntax. It can be read and used as a data format by any programming language (Java, Python, PHP, C, cURL, etc...) to develop your own custom application or reporting tool.

API request can be invoked by using **POST** method only.

Here is a sample of the JSON request input:

```
{
  "SysUser": "APIuser",
  "SysPwd": "my_password",
  "Hostname": "mybackup.com",
  ...
  :
  :
  :
  :
}
```

For further reference on the JSON syntax or documentation, please refer to the following webpages:

[https://www.w3schools.com/js/js\\_json\\_intro.asp](https://www.w3schools.com/js/js_json_intro.asp)

<http://developers.squarespace.com/what-is-json/>

Note: More examples are available in the following API sections.

## 2.2 Limitations and Recommendations

For backward compatible, AhsayCBS version 9 supports the use of some APIs from legacy version 6 (API in XML format). However, your mileage may vary, and it is recommended for the support of new features in version 9, we recommend programmers to change all existing legacy coding with the use of the JSON syntax API.

New features introduced by AhsayCBS version 9 will not be supported by APIs written based on Ahsay version 6 XML format, and continued use of the XML API may yield unexpected result.

If you run multiple CBS servers with varying CBS version (ie CBS v7.17, v8.5, and v9.1 in your environment), when developing your own application that calls Ahsay API requests, we suggest you use API to check the CBS version, then call the corresponding API request for that CBS version.

With some API methods, there is a “v1” and “v2”. The “v2” was introduced for handling of features related to Quota Management introduced in CBS v7.15.6.38, therefore if your CBS is higher than this version you should be using the V2 API. If your application is requesting data from CBS v7.15.6.38 or earlier, then continue to use V1 API. There may be other enhancements which have deprecated other API, for example *GetLicense.do* in CBS v8.3.

**Note:** This Ahsay v9 API Guide has removed the “v1” API methods deprecated by v7.15.6.38. If you require “v1” API details, please request an older API Guide version from Ahsay Support.

Note:

- Coding for your application must support UTF-8.
- When testing your API, ensure that you have all parameters and / or settings setup on your AhsayCBS.
- Please arrange your test case in a logical sequence, such as Creating a backup set before attempting to Modify / Delete a backup set with API.

## 2.3 API Access Account Types

To allow a third-party program to utilize the API, you are suggested to create a *System User* which has permission for API calls to your AhsayCBS.

- For **all** APIs outlined in this guide with parameters **SysUser** and **SysPwd**, they are the username and password of any of the following types of *System User*:
  - **Admin**
  - **API User**
- For **some** APIs, as listed in ch.2.3.1 in this guide, API with parameters **SysUser** and **SysPwd**, are the username and password of the following type of *System User*:
  - **Read-Only API User**

NOTE: **Sub Admin** account types are not permitted to make any API request.

### 2.3.1 Read-Only API User

AhsayCBS version 9 introduces “*Read-Only API User*” account type. This allows your application to access Read-Only data and not allow changes to be made if this account were to be compromised.

The following API methods are valid for *Read-Only API User*.

#### Ch 3 - System API

##### System

- GetBuildingStatus
- GetReplicationStatus
- GetDataMigrationProgress
- GetSystemStatus

##### System Config

- GetLicense (v1,v2)
- GetSystemSetting (v1,v2) - Backup Server
- GetReplicationMode

##### Group Policy

- ListPolicyGroups (v1,v2)
- ListUserGroups

#### Ch 4 - User API

##### User

- ListUsers (v1,v2)
- GetUser (v1,v2)
- GetSingleUserRebuildStatus
- GetUserStatus
- GetUserStorageStat
- GetServerRunJobStatus

##### Backup Set

- GetBackupJobProgress
- ListBackupJobStatus
- GetBackupSet (v1,v2)
- ListBackupSets
- ListBackupFiles
- ListRestoreJobs
- ListBackupJobMode
- ListRestoreJobStatus
- ListBackupJobs

##### Report

- GetBackupJobReport
- GetBackupJobReportSummary
- GetRestoreJobReport

#### Ch 5 - RPS API

##### RPS Receiver

- ListReceiver

## 2.4 IP Restrictions

By default, AhsayCBS accepts and handles API requests from all IP addresses. To avoid being exploited by hackers from an unauthorized network, setup IP filters with the following instructions:

1. Open the web.xml file in the following paths:

`%CBS_HOME%\webapps\cbs\WEB-INF\web.xml`

`%CBS_HOME%\webapps\rps\WEB-INF\web.xml`

`%CBS_HOME%\webapps\rdr\WEB-INF\web.xml`

`%CBS_HOME%\webapps\obs\WEB-INF\web.xml`

**Note:** `%CBS_HOME%\webapps\obs\WEB-INF\web.xml` ("/obs/api/json/" API)

\* cannot be fully restricted because it is used by the OBM and ACB Client agent.

\* can have restrictions if you include the Range for all your user's IP subnets.

2. Locate the `ApiAccess` filter under the "filter" section.
3. Change the [Range2] parameter value from "0.0.0.0-255.255.255.255" (shown in red and bold below) to another range of IP addresses from where APIs can be invoked.

web.xml
... <filter> <filter-name>ApiAccess</filter-name> <filter-class> Com.ahsay.obs.www.IPFilter</filter-class> <init-param> <param-name>Range1</param-name> <param-value>localhost</param-value> </init-param> <init-param> <param-name>Range2</param-name> <param-value> <b>0.0.0.0-255.255.255.255</b> </param-value> </init-param> </filter> ...

For example, change the [Range2] value from "0.0.0.0-255.255.255.255" to "192.168.1.1-192.168.1.255" to allow the 192.168.1.x network to invoke APIs.

web.xml (Updated)
... <filter> <filter-name>ApiAccess</filter-name> <filter-class> Com.ahsay.obs.www.IPFilter</filter-class> <init-param> <param-name>Range1</param-name>

```
    <param-value>localhost</param-value>
  </init-param>
  <init-param>
    <param-name>Range2</param-name>
    <param-value>192.168.1.1-192.168.1.255</param-value>
  </init-param>
</filter>
...
```

Please note that you can configure more than two IP ranges by adding additional init parameters (i.e. "Range3", "Range4" and so on) to the filter XML tag. For example:

```
...
<filter>
  <filter-name>ApiAccess</filter-name>
  <filter-class> Com.ahsay.obs.www.IPFilter</filter-class>
  <init-param>
    <param-name>Range1</param-name>
    <param-value>localhost</param-value>
  </init-param>
  <init-param>
    <param-name>Range2</param-name>
    <param-value>192.168.1.1-192.168.1.255</param-value>
  </init-param>
  <init-param>
    <param-name>Range3</param-name>
    <param-value>192.168.2.1-192.168.2.255</param-value>
  </init-param>
</filter>
```

4. Restart the AhsayCBS service.

## 2.5 Troubleshooting

Here are some common mistakes when people write their own JSON scripts:

- Erroneous character (trailing spaces)

```
“https://CBS.EXAMPLE.COM/obs/api/json/2/GetLicense.do ”
{
  "SysUser": "api_user",
  "SysPwd": "qWeRtY123456!@#$$%",
}
Output
404 NOT FOUND
No body returned for response
```

Reason for the above is trailing spaces after the “GetLicense.do ”

- Syntax errors

```
Getlicense.do API Input -- Missing comma and/or double quote
{
  "SysUser": "api_user"
  "SysPwd": "qWeRtY123456!@#$$%"
}
Output
{
  "Status": "Error",
  "Message": "java.lang.NullPointerException",
  "ExptType": "java.lang.NullPointerException"
}
Output 2
{
  "Status": "Error",
  "Message": "[Error] Parameter SysUser is null!",
  "ExptType": "java.io.IOException"
}
```

Missing the above syntax would cause critical errors.

```
Correct input
{
  "SysUser": "api_user",
  "SysPwd": "qWeRtY123456!@#$$%"
}
Output
{
  "Status": "OK"
}
```

• Syntax errors

```
UpdateConfig.do API Input -- Array missing square brackets [ ]
{
  "SysUser": "api_user",
  "SysPwd": "qWeRtY123456!@#$$%",
  "SendBccReports": true,
  "AdminContacts": {"Name": "New1", "Email": "New1@example.com"}, {"Name": "New1", "Email": "New1@example.com"}
}

Output
{
  "Status": "Error",
  "Message": "java.lang.NullPointerException",
  "ExptType": "java.lang.NullPointerException"
}
```

```
Correct input
{
  "SysUser": "api_user",
  "SysPwd": "qWeRtY123456!@#$$%",
  "SendBccReports": true,
  "AdminContacts": [{"Name": "New1", "Email": "New1@example.com"}, {"Name": "New1", "Email": "New1@example.com"}]
}

Output
{
  "Status": "OK"
}
```

The input data type for AdminContacts is an *array*. Array must be set in square brackets [ ].

• Parameter names typo errors

```
Getlicense.do API Input -- Incorrect parameter name
{
  "SySUser": "api_user",
  "SySPwd": "qWeRtY123456!@#$$%"
}

Output
{
  "Status": "Error",
  "Message": "[Error] Parameter SysUser is null!",
  "ExptType": "java.io.IOException"
}
```

```
Correct input
{
  "SysUser": "api_user",
  "SysPwd": "qWeRtY123456!@#$$%"
}

Output
{
  "Status": "OK",
}
```

Parameter names are case-sensitive. Ensure that all parameters names are in the correct case, as outlined in this document.



- Input of extra Key(s) are ignored by CBS, is not validated, and will not display error.

```
UpdateUser.do API Input -- Erroneous Key "foobar" is ignored
{
  "SysUser": "api_user",
  "SysPwd": "qWeRtY123456!@#$$%",
  "LoginName": "backup_user",
  "foobar": "foobar_is_extra_and_irrelevant"
}

Output
{
  "Status": "OK",
}
```

- Escape characters errors

```
AddSelectSrc.do API Input -- Character Backslash ( \ ) not escaped ( \\ )
{
  "SysUser": "api_user",
  "SysPwd": "qWeRtY123456!@#$$%",
  "LoginName": "opendirect",
  "BackupSetID": "1497925931498",
  "NewSelectedSrc": {"Src": "C:\SelectSrcTestOBM"}
}

Output
{
  "Status": "Error",
  "Message": "java.lang.NullPointerException",
  "ExptType": "java.lang.NullPointerException"
}
```

```
Correct input
{
  "SysUser": "api_user",
  "SysPwd": "qWeRtY123456!@#$$%",
  "LoginName": "opendirect",
  "BackupSetID": "1497925931498",
  "NewSelectedSrc": {"Src": "C:\\SelectSrcTestOBM"}
}

Output
{
  "Status": "OK"
}
```

Make sure your values are specific for JAVA characters (e.g. \\ for escape).

Incorrect API URL path

```
Incorrect https://CBS.EXAMPLE.COM/obs/api/json/UpdateConfig.do
{
  "SysUser": "api_user",
  "SysPwd": "qWeRtY123456!@#%$"
}
Output
No body returned for response
```

```
Correct https://CBS.EXAMPLE.COM/cbs/api/json/UpdateConfig.do
{
  "SysUser": "api_user",
  "SysPwd": "qWeRtY123456!@#%$"
}
Output
{
  "Status": "OK"
}
```

Make sure you point to correct API URL path. For “*UpdateConfig.do*” it is under “*/cbs/api*”.

## Additional information

If the error message returned by the API call does not provide sufficient information, please login to the AhsayCBS console for further details:

[🔗](#) [Dashboard] > [To Dos] > [API Errors]

**To Dos** | Overview | CPU | Memory | Storage | Live Threads

Missed Backups <b>0</b>	Failed Backups <b>0</b>	System Errors <b>3</b>	Replication Errors <b>0</b>	API Errors <b>26</b>	Email Errors <b>0</b>
----------------------------	----------------------------	---------------------------	--------------------------------	-------------------------	--------------------------

View  Rows/Page Page

Timestamp	Login Name	Owner	Message
19/06/2017 17:40:31	--	--	[Api][ModifyUserStatus]com.ahsay.obs.core.dbs.Y: [UserCacheManager.NoSuchUserExpt] User 'user1' not found. at com.ahsay.obs.core.dbs.Q.a(Unknown Source) at com.ahsay.obs.core.dbs.I.a(Unknown Source) at com.ahsay.obs.api.json.JSONUserApi.doAction(Unknown Source) at com.ahsay.obs.api.json.JSONApi.execute(Unknown Source) at org.apache.struts.chain.commands.servlet.ExecuteAction.execute(ExecuteAction.java:58) at org.apache.struts.chain.commands.AbstractExecuteAction.execute(AbstractExecuteAction.java:67) at org.apache.struts.chain.commands.ActionCommandBase.execute(ActionCommandBase.java:51) at org.apache.commons.chain.impl.ChainBase.execute(ChainBase.java:191) at org.apache.commons.chain.generic.LookupCommand.execute(LookupCommand.java:305) at org.apache.commons.chain.impl.ChainBase.execute(ChainBase.java:191) at org.apache.struts.chain.ComposableRequestProcessor.process(ComposableRequestProcessor.java:283) at org.apache.struts.action.ActionServlet.process(ActionServlet.java:1913) at org.apache.struts.action.ActionServlet.doPost(ActionServlet.java:462) at javax.servlet.http.HttpServlet.service(HttpServlet.java:646) at javax.servlet.http.HttpServlet.service(HttpServlet.java:727) at org.apache.catalina.core.ApplicationFilterChain.internalDoFilter(ApplicationFilterChain.java:303) at org.apache.catalina.core.ApplicationFilterChain.doFilter(ApplicationFilterChain.java:208) at org.apache.tomcat.websocket.server.WsFilter.doFilter(WsFilter.java:52) at org.apache.catalina.core.ApplicationFilterChain.internalDoFilter(ApplicationFilterChain.java:241) at org.apache.catalina.core.ApplicationFilterChain.doFilter(ApplicationFilterChain.java:208) at com.ahsay.obs.www.EncodingFilter.doFilter(Unknown Source) at org.apache.catalina.core.ApplicationFilterChain.internalDoFilter(ApplicationFilterChain.java:241) at org.apache.catalina.core.ApplicationFilterChain.doFilter(ApplicationFilterChain.java:208) at com.ahsay.obs.www.IPFiler.doFilter(Unknown Source) at org.apache.catalina.core.ApplicationFilterChain.internalDoFilter(ApplicationFilterChain.java:241) at org.apache.catalina.core.ApplicationFilterChain.doFilter(ApplicationFilterChain.java:208) at org.apache.catalina.core.StandardMapperValve.invoke(StandardMapperValve.java:220) at org.apache.catalina.core.StandardContextValve.invoke(StandardContextValve.java:122) at org.apache.catalina.authenticator.AuthenticatorBase.invoke(AuthenticatorBase.java:504) at org.apache.catalina.valves.AccessLogValve.invoke(AccessLogValve.java:950) at

Note: You can contact Ahsay [support team](#) for further assistance.

## 3 System API

### 3.1 System

#### 3.1.1 GetBuildingStatus

This API can be used to get Build Installer status of either CBS build or Clients build.

The related settings can be found on the AhsayCBS web console:

- [Basic] > [Administrative Access] > select user > [Rebrand Web Console] > [Build Installers]
- [Basic] > [Administrative Access] > select user > [Rebrand Clients] > [Build Installers]

URL:		
	<a href="https://CBS.EXAMPLE.COM/cbs/api/json/GetBuildingStatus.do?product=%product%">https://CBS.EXAMPLE.COM/cbs/api/json/GetBuildingStatus.do?product=%product%</a> <a href="https://CBS.EXAMPLE.COM/cbs/api/json/GetBuildingStatus.do?product=%product%&amp;mode=single">https://CBS.EXAMPLE.COM/cbs/api/json/GetBuildingStatus.do?product=%product%&amp;mode=single</a> <a href="https://CBS.EXAMPLE.COM/cbs/api/json/GetBuildingStatus.do?product=%product%&amp;mode=all">https://CBS.EXAMPLE.COM/cbs/api/json/GetBuildingStatus.do?product=%product%&amp;mode=all</a>	
Available since version:		
	9.1	
Parameters:		
Key	Type	Descriptions
SysUser	String	Username of an AhsayCBS System User with Admin, API, or RO API role
SysPwd	String	Password matching SysUser
Query Parameters:		
product	String	Either "CBS" or "OBC"
mode	String	(optional) "all" or "single"

Return Values (mode is not "all"):		
Key	Type	Descriptions
Status	String	"OK" or "Error"
lastUpdatedTime	String	Last update time for the build process, in yyyy-MM-dd hh:mm:ss
message	String	Last updated message for the build process
status	String	Build status: <i>uploaded, waiting (idle), queued, building, finished</i>
Message	String	Error message, it exists only if status is "Error"

Return Values (mode is "all"):		
Key	Type	Descriptions
Status	String	"OK" or "Error"
buildStatus	Array of BuildStatus	A list of build status for System Users
Message	String	Error message, it exists only if status is "Error"

JSON Objects:		
Array: BuildStatus		
Key	Type	Descriptions
lastUpdatedTime	String	Last update time for the build process, in yyyy-MM-dd hh:mm:ss
message	String	Last updated message for the build process
status	String	Build status: <i>uploaded, waiting (idle), queued, building, finished</i>
id	String	System user ID (0 = 'system' username)

Example:	
	<b>Input (?product=CBS)</b>
	<pre>{   "SysUser": "api_user",   "SysPwd": "qWeRtY123456!@#\$\$%" }</pre>
	<b>Output</b>
	<pre>{   "Status": "OK",   "lastUpdateTime": "2021-06-03 12:24:30",   "message": "",   "status": "waiting" }</pre>

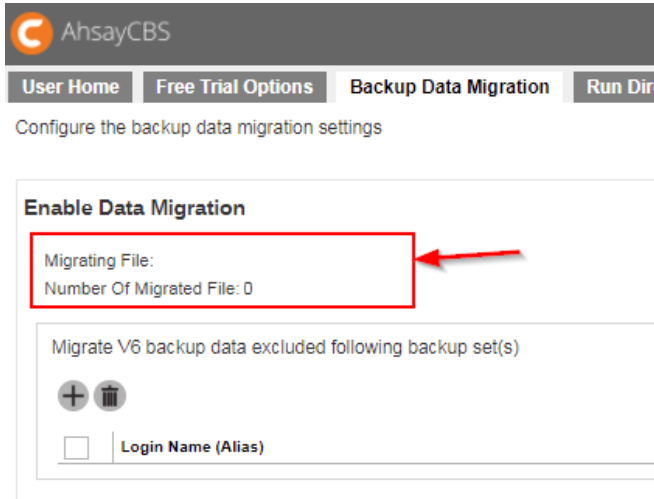
Example:	
	<b>Input (?product=OBC&amp;mode=all)</b>
	<pre>{   "SysUser": "api_user",   "SysPwd": "qWeRtY123456!@#\$\$%" }</pre>
	<b>Output</b>
	<pre>{   "Status": "OK",   "buildStatus": [     {       "lastUpdateTime": "2021-06-03 12:20:10",       "id": "21221",       "message": "",       "status": "waiting"     },     {       "lastUpdateTime": "2021-06-03 12:20:10",       "id": "44312",       "message": "The building process is failed. Please click [Download Log] to download the log file for detail. (Last update time: 2021-06-03 12:20:10)",       "status": "waiting"     }   ] }</pre>

### 3.1.2 GetDataMigrationProgress

This API can be used to get the v6-to-CBS Blocks Backup Set Data Migration

The related settings can be found on the AhsayCBS pre-v9 web console:

- [Backup/Restore ] > [Basic] > [Backup Data Migration]



URL:			
	<a href="https://CBS.EXAMPLE.COM/cbs/api/json/GetDataMigrationProgress.do">https://CBS.EXAMPLE.COM/cbs/api/json/GetDataMigrationProgress.do</a>		
Available since version:			
	7.7		
Parameters:			
Key	Type	Descriptions	
SysUser	String	Username of an AhsayCBS System User with Admin, API, or RO API role	
SysPwd	String	Password matching SysUser	

Return Values:			
Key	Type	Descriptions	
Status	String	"OK" or "Error"	
Message	String	Error message, it exists only if status is "Error"	
MigratedFileCount	Integer	Number of file that has been migrated for the current backup set	
MigratingFilePath	String	The file path that is under migration	

Example:	
Input	<pre>{   "SysUser": "api_user",   "SysPwd": "qWeRtY123456!@#%" }</pre>
Output	<pre>{   "Status": "OK",   "MigratingFilePath": "C:\\Program Files\\AhsayCBS\\users\\user\\files\\1544253452756\\Current\\0x14\\0x45\\0x12\\0x00\\5252334",   "MigratedFileCount": 15 }</pre>

### 3.1.3 GetReplicationStatus

This API can be used to get the Live Activities Replication Status of either the “Replication” (Sender, CBS Backup Server) or “Receiver” (CBS Replication Server)

The related settings can be found on the AhsayCBS web console:

- [Live Activities] > [Replication]
- [Live Activities] > [Receiver]

URL:			
	<a href="https://CBS.EXAMPLE.COM/cbs/api/json/GetReplicationStatus.do">https://CBS.EXAMPLE.COM/cbs/api/json/GetReplicationStatus.do</a>		
Available since version:			
	9.1		
Parameters:			
Key	Type	Descriptions	
SysUser	String	Username of an AhsayCBS System User with Admin, API, or RO API role	
SysPwd	String	Password matching SysUser	
Type	String	Either: <i>replicate</i> or <i>receive</i>	

Return Values:			
Key	Type	Descriptions	
Status	String	"OK" or "Error"	
Message	String	Error message, it exists only if status is "Error"	
RepStatus	Array of RepStatus	It exists only if Type is <i>replicate</i>	
RecStatus	Array of RecStatus	It exists only if Type is <i>receive</i>	

JSON Objects:			
RepStatus (when Type = <i>replicate</i> )			
Key	Type	Descriptions	
BackupSetName	String	Backup set name	
LoginName	String	Backup username	
Owner	String	Backup user owner	
ClientType	String	OBM or ACB	
isSysFiles	Boolean	True if replicate for user settings or system file, False if replicate backup set data	
Mode	String	Mode: SLEEP, RESYNC, REPLAY, PENDING	
Type	String	Backup set type	
StartTime	String	Start time of the replication job	
BackupSetID	String	Backup set ID	
Alias	String	Alias of the job entry	
ReplicatedFile	String	File being replicate	
UserId	String	User id	
EstimatedTimeLeft	String	Estimated time left	
ID	String	ID of this entry object	
UserType	String	PAID or TRIAL	
Progress	Integer	% done of replication	

### JSON Objects:

RecStatus (when Type = <i>receive</i> )			
Key	Type	Descriptions	
ReplicatedFile	String	File last replicated	
EstimatedTimeLeft	String	Estimated time left	
Mode	String	Receiving mode	
StartTime	String	Start time of the receiving job	
Receiver	String	Receiver name	
ID	String	ID of the receiver	
inactive	Boolean	Inactive or not	
Progress	Integer	Progress %	

### Example (Type=receive):

Input	
<pre>{   "SysUser": "api_user",   "SysPwd": "qWeRtY123456!@#%\$",   "Type": "receive" }</pre>	
Output	
<pre>{   "Status": "OK",   "ReloadReceiveStatus": "true",   "RecStatus": [     {       "ReplicatedFile": "",       "Progress": 0,       "inactive": true,       "EstimatedTimeLeft": "--",       "Mode": "",       "StartTime": "--",       "Receiver": "system",       "ID": "-887328209"     }   ] }</pre>	



### Example (Type=replicate):

#### Input

```
{
  "SysUser": "api_user",
  "SysPwd": "qWeRtY123456!@#S%",
  "Type": "replicate"
}
```

#### Output

```
{
  "ReloadReplicateStatus": "true",
  "Status": "OK",
  "RepStatus": [
    {
      "BackupSetName": "Run on Client OpenStack backup to OpenStack",
      "LoginName": "824681-cloud",
      "Owner": "",
      "ClientType": "OBM",
      "Progress": 100,
      "Mode": "SLEEP",
      "StartTime": "12/08/2021 16:08:41",
      "BackupSetID": "1550652123596",
      "isSysFiles": false,
      "ReplicatedFile": "",
      "Type": "Cloud File",
      "UserId": "-1864124972",
      "Alias": "Run on Server Cloud File backup sets (All Clouds)",
      "EstimatedTimeLeft": "--",
      "ID": "1550652123596",
      "UserType": "PAID"
    },
    {
      "BackupSetName": "Wasabi - backing up 1 file from the root folder",
      "LoginName": "824681-cloud",
      "Owner": "",
      "ClientType": "OBM",
      "Progress": 100,
      "Mode": "SLEEP",
      "StartTime": "12/08/2021 22:15:17",
      "BackupSetID": "1569310990116",
      "isSysFiles": false,
      "ReplicatedFile": "",
      "Type": "Cloud File",
      "UserId": "-1864124972",
      "Alias": "Run on Server Cloud File backup sets (All Clouds)",
      "EstimatedTimeLeft": "--",
      "ID": "1569310990116",
      "UserType": "PAID"
    },
    {
      "BackupSetName": "My First Backup",
      "LoginName": "vm-w8x-sq198",
      "Owner": "",
      "ClientType": "OBM",
      "Progress": 100,
      "Mode": "SLEEP",
      "StartTime": "12/08/2021 16:39:43",
      "BackupSetID": "1632467626531",
      "isSysFiles": false,
      "ReplicatedFile": "",
      "Type": "FILE",
      "UserId": "-2106305407",
      "Alias": "10.6.10.163",
      "EstimatedTimeLeft": "--",
      "ID": "1632467626531",
      "UserType": "PAID"
    },
    {
      "BackupSetName": "Configuration and system files",

```

```
"LoginName": "",
"Owner": "",
"ClientType": "",
"Progress": 0,
"Mode": "SLEEP",
"StartTime": "--",
"BackupSetID": "",
"isSysFiles": true,
"ReplicatedFile": "",
"Type": "",
"UserId": "0",
"Alias": "",
"EstimatedTimeLeft": "--",
"ID": "",
"UserType": ""
}
]
```

### 3.1.4 GetSystemStatus

This API can be used to get the Dashboard values of : CPU, Memory, and Live Threads

The related settings can be found on the AhsayCBS web console:

- [Dashboard] > [CPU]
- [Dashboard] > [Memory]
- [Dashboard] > [Live Threads]

<b>URL:</b>			
	<a href="https://CBS.EXAMPLE.COM/cbs/api/json/GetSystemStatus.do">https://CBS.EXAMPLE.COM/cbs/api/json/GetSystemStatus.do</a>		
<b>Available since version:</b>			
	9.1		
<b>Parameters:</b>			
Key	Type	Descriptions	
SysUser	String	Username of an AhsayCBS System User with Admin, API, or RO API role	
SysPwd	String	Password matching SysUser	
Type	String	(optional) Values: <i>memory</i> , <i>cpuUsage</i> , or <i>thread</i>	
		When Type or StartDate is not input, overall result is returned	
		When Type and StartDate are input, history of the type is returned	
StartDate	String	Date in yyyy-MM-dd format	

<b>Return Values (Type or StartDate is not input):</b>			
Key	Type	Descriptions	
Status	String	"OK" or "Error"	
Message	String	Error message, it exists only if status is "Error"	
nonHeapMemPoolList	Array of MemPool	Memory pool information for non heap	
heapMemPoolList	Array of MemPool	Memory pool information for heap	
garbageCollectorList	Array of GarbageCollect or	Garbage collection information	
totalSwapSpace	String	Total swap space	
heapUsed	String	Heap used	
daemonThreads	Integer	Number of daemon threads	
freeSwapSpace	String	Free swap space	
peakThreads	Integer	Peak number of threads	
nonHeapPercentage	Integer	Non heap size percentage	
liveThreads	Integer	Number of live threads	
committedVirtualMemory	String	Committed virtual memory	
totalThreadsStarted	Integer	Total number of thread started	
totalPhysicalMemory	String	Total physical memory	
heapPercentage	Integer	Heap percentage	
timestamp	Long	Timestamp of the request	
nonHeapUsed	String	Non heap size used	
processCpuLoad	Double	Process CPU load	
freePhysicalMemory	String	Free physical memory	
systemCpuLoad	Double	System CPU load	
maxNonHeap	String	Maximum non heap size	
heapUsage	Double	Heap usage	
maxHeap	String	Maximum heap size	

**JSON Objects:**

MemPool			
Key	Type	Descriptions	
usedPercentage	Integer	Used percentage	
Max	Integer	Maximum number of memory assigned	
used	Integer	Memory used	
formattedUsed	String	Formatted memory used	
formattedMax	String	Formatted maximum number of memory	
formattedPoolName	String	Formatted memory pool name	
poolName	String	Memory pool name	

**JSON Objects:**

GarbageCollector			
Key	Type	Descriptions	
time	Integer	Time	
count	Integer	Count	
formattedTime	String	Formatted time	
Type	String	Type	
formattedType	String	Formatted type	

**Example (Overall Result):**

Input	
	<pre>{   "SysUser": "api_user",   "SysPwd": "qWeRTY123456!@#%" }</pre>
Output	
	<pre>{   "Status": "OK",   "totalSwapSpace": "32G",   "heapUsed": "757.17M",   "daemonThreads": 116,   "freeSwapSpace": "26.25G",   "peakThreads": 171,   "nonHeapMemPoolList": [     {       "servletWrapper": {},       "usedPercentage": 52,       "max": 251658240,       "formattedMax": "240M",       "used": 131299520,       "formattedUsed": "125.22M",       "formattedPoolName": "CodeCache",       "poolName": "Code Cache"     },     {       "servletWrapper": {},       "usedPercentage": 55,       "max": 268435456,       "formattedMax": "256M",       "used": 147856168,       "formattedUsed": "141.01M",       "formattedPoolName": "Metaspace",       "poolName": "Metaspace"     },     {       "servletWrapper": {},       "usedPercentage": 5,       "max": 260046848,       "formattedMax": "248M",       "used": 14958640, </pre>

```

    "formattedUsed": "14.27M",
    "formattedPoolName": "CompressedClassSpace",
    "poolName": "Compressed Class Space"
  }
},
"nonHeapPercentage": 37,
"liveThreads": 118,
"committedVirtualMemory": "1.73G",
"totalThreadsStarted": 5962,
"totalPhysicalMemory": "16G",
"garbageCollectorList": [
  {
    "servletWrapper": {},
    "formattedType": "ParNew",
    "count": 5483,
    "formattedTime": "00:01:54.797",
    "time": 114797,
    "type": "ParNew"
  },
  {
    "servletWrapper": {},
    "formattedType": "ConcurrentMarkSweep",
    "count": 201,
    "formattedTime": "00:03:24.390",
    "time": 204390,
    "type": "ConcurrentMarkSweep"
  }
],
"heapPercentage": 9,
"timeStamp": 1639016542396,
"nonHeapUsed": "280.49M",
"processCpuLoad": 1.02,
"freePhysicalMemory": "8.42G",
"systemCpuLoad": 2.13,
"maxNonHeap": "744M",
"heapUsage": 757.1663818359375,
"maxHeap": "7.92G",
"heapMemPoolList": [
  {
    "servletWrapper": {},
    "usedPercentage": 2,
    "max": 2694840320,
    "formattedMax": "2.51G",
    "used": 77570808,
    "formattedUsed": "73.98M",
    "formattedPoolName": "ParEdenSpace",
    "poolName": "Par Eden Space"
  },
  {
    "servletWrapper": {},
    "usedPercentage": 1,
    "max": 84213760,
    "formattedMax": "80.31M",
    "used": 1579928,
    "formattedUsed": "1.51M",
    "formattedPoolName": "ParSurvivorSpace",
    "poolName": "Par Survivor Space"
  },
  {
    "servletWrapper": {},
    "usedPercentage": 12,
    "max": 5726666752,
    "formattedMax": "5.33G",
    "used": 714795776,
    "formattedUsed": "681.68M",
    "formattedPoolName": "CMSOldGen",
    "poolName": "CMS Old Gen"
  }
]
}

```

### Example (Memory):

#### Input

```
{
  "SysUser": "api_user",
  "SysPwd": "qWeRtY123456!@#%$",
  "Type": "memory",
  "StartDate": "2021-12-09"
}
```

#### Output

```
{
  "Status": "OK",
  "sysStatusList": [
    {
      "timeStamp": 1638979234661,
      "heapUsage": 702.3201904296875
    },
    {
      "timeStamp": 1638994184668,
      "heapUsage": 556.4883422851562
    },
    {
      "timeStamp": 1638994244717,
      "heapUsage": 723.1800537109375
    },
    ...,
    {
      "timeStamp": 1639020884430,
      "heapUsage": 815.3570556640625
    },
    {
      "timeStamp": 1639020944447,
      "heapUsage": 953.4569702148438
    }
  ]
}
```

### Example (Thread):

#### Input

```
{
  "SysUser": "api_user",
  "SysPwd": "qWeRtY123456!@#%$",
  "Type": "thread",
  "StartDate": "2021-12-09"
}
```

#### Output

```
{
  "Status": "OK",
  "sysStatusList": [
    {
      "timeStamp": 1638979234661,
      "liveThreads": 138
    },
    {
      "timeStamp": 1638979309499,
      "liveThreads": 146
    },
    ...,
    {
      "timeStamp": 1638979429549,
      "liveThreads": 140
    }
  ]
}
```

### Example (CPU):

#### Input

```
{
  "SysUser": "api_user",
  "SysPwd": "qWeRtY123456!@#%$",
  "Type": "cpuUsage",
  "StartDate": "2021-12-09"
}
```

#### Output

```
{
  "Status": "OK",
  "sysStatusList": [
    {
      "timeStamp": 1638979234661,
      "processCpuLoad": 8.15,
      "systemCpuLoad": 43.61
    },
    {
      "timeStamp": 1638979309499,
      "processCpuLoad": 10.91,
      "systemCpuLoad": 60.79
    },
    ...,
    {
      "timeStamp": 1639021184576,
      "processCpuLoad": 0.4,
      "systemCpuLoad": 11.12
    },
    {
      "timeStamp": 1639021244603,
      "processCpuLoad": 0.6,
      "systemCpuLoad": 10.9
    }
  ]
}
```

## 3.2 System Config

### 3.2.1 UpdateServerConfig (v1), UpdateSystemSettings (v2) - Backup Server

This API can be used to update the Backup Server related configuration such as the User Home and Free Trial user registration settings for only the Admin, not SubAdmin.

The related settings can be found on the AhsayCBS web console:

🔗 [Backup / Restore] > [Basic] > [User Home] or [Free Trial Options]

#### v1 UpdateServerConfig.do

URL:
<a href="https://CBS.EXAMPLE.COM/obs/api/json/UpdateServerConfig.do">https://CBS.EXAMPLE.COM/obs/api/json/UpdateServerConfig.do</a>
Deprecated since version:
7.15.6.38

#### v2 UpdateSystemSetting.do

Note: The name of the **UpdateServerConfig.do** (v1) API has changed to **UpdateSystemSetting.do**.

UpdateSystemSetting.do was introduced for handling of features related to Quota Management.

A **TrialQuotaList** JSON object (list of quota for multiple backup destinations for free trial users) was introduced to replace the single **BackupQuotaSize** parameter (v1 API).

URL:		
<a href="https://CBS.EXAMPLE.COM/obs/api/json/2/UpdateSystemSetting.do">https://CBS.EXAMPLE.COM/obs/api/json/2/UpdateSystemSetting.do</a>		
Available since version:		
9.5		
Parameters:		
Key	Type	Descriptions
SysUser	String	Username of an AhsayCBS System User with Admin or API role
SysPwd	String	Password matching SysUser
UserHomes	Array	Note: When new user home is added, you need to include your existing user home in the array.
EnableFreeTrial	Boolean	Enable / Disable the Free Trial Registration option.
TrialQuotaList	Array	List of quota of backup destination for trial user, unit in byte.
ExpTrialStatus	String	"reset" or "suspend"
ExpTrialQuota	String	The quota of expired trial user, in number of bytes.
SuspendUserDays	Integer	The number of days that a user will be suspended.  The value can be any one of the following: "7", "8", ..., "29", "30", "45", "60", "75", "90"
TrialMsExchange	Boolean	Enable / Disable the trial of Microsoft Exchange Server add-on module.
TrialMsSql	Boolean	Enable / Disable the trial of Microsoft SQL Server add-on module.
TrialMySql	Boolean	Enable / Disable the trial of MySQL Database Server add-on module.
TrialMariaDB	Boolean	Enable / Disable the trial of MariaDB add-on module
TrialOracle	Boolean	Enable / Disable the trial of Oracle Database Server add-on module.
TrialDomino	Boolean	Enable / Disable the trial of Lotus Domino add-on module.



TrialNotes	Boolean	Enable / Disable the trial of Lotus Notes add-on module.
TrialWinServer2008BareMetal	Boolean	Enable / Disable the trial of Windows System Backup add-on module.
TrialMsWinSysState	Boolean	Enable / Disable the trial of Windows System State Backup add-on module.
TrialVMware	Boolean	Enable / Disable the trial of VMware add-on module.
TrialVMwareQuota	String	VMware VM module quota. Enter integer value in string format.
TrialVMwareQuotaType	String	Default value is GUESTVM if not provided  The value can be any one of the following:  GUESTVM SOCKET
TrialMsVm	Boolean	Enable / Disable the trial of Hyper-V add-on module.
TrialMsVmQuota	String	Hyper-V module quota. Enter integer value in string format.
TrialMsVmQuotaType	String	Default value is GUESTVM if not provided  The value can be any one of the following:  GUESTVM SOCKET
TrialMsExchangeMailbox	Boolean	Enable / Disable the trial of Microsoft Exchange Mailbox add-on module.
TrialEMBQuota	String	Microsoft Exchange Mailbox module quota. Enter integer value in string format.
TrialNasClient	Boolean	Enable / Disable the trial of NAS add-on module.
TrialQnap	Boolean	Enable / Disable the trial of Qnap NAS add-on module.
TrialShadowProtectBareMetal	Boolean	Enable / Disable the trial of Shadow Protect System Backup add-on module.
TrialShadowCopy	Boolean	Enable / Disable the trial of Volume Shadow Copy add-on module.
TrialCdp	Boolean	Enable / Disable the trial of Continuous Data Protection add-on module.
TrialDeltaBlock	Boolean	Enable / Disable the trial of In-File Delta add-on module.
TrialMobile	Boolean	Enable / Disable the trial Mobile add-on module.
TrialMobileQuota	String	Mobile add-on module quota. Enter integer value in string format
TrialOffice365Mail	Boolean	Enable / Disable the trial of Microsoft 365 online backup add-on module.
TrialOpenDirect	Boolean	Enable / Disable the trial Open Direct/ Granular Restore add-on module.
TrialOpenDirectQuota	String	Open Direct / Granular Restore quota. Enter integer value in string format.
EnableRemoveUser	Boolean	Enable / Disable the remove trial user.
RemoveUserDays	String	Enter integer value in string format.
SinceInactive	Boolean	
TrialQuotaType	String	Quota Type, either TOTAL_QUOTA or PER_DESTINATION_QUOTA
TrialStorageQuota	Long	Total Quota in GB Value validity examined when used by TOTAL_QUOTA
<b>JSON Objects:</b>		
<b>UserHome</b>		
<b>Key</b>	<b>Type</b>	<b>Descriptions</b>
Path	String	Path of user home, e.g. "F:\\new_home"
Quota	String	Maximum QPS ratio of the user home  The value can be any one of the following: Unlimited 300 250 200 150 100 90 80 70 60 50 40 30 20 10 0  "0" refers to the "Not Used"

TrialQuotaList		
Key	Type	Descriptions
Enabled	Boolean	
Quota	Long	Quota of the backup destination, unit in byte. Value validity examined when used by PER_DESTINATION_QUOTA
DestinationKey	String	ID of the backup destination, or "OBS" for AhsayCBS.
DestinationName	String	Example "AhsayCBS"
Return Values:		
Key	Type	Descriptions
Status	String	"OK" or "Error"
Message	String	Error message, it exists only if status is "Error"
ExptType	String	The type of exception, it exists only if status is "Error"

#### Example:

Input: Update UserHomes	
<pre>{   "SysUser": "api_user",   "SysPwd": "qWeRtY123456!@#%\$",   "TrialQuotaList": [     {       "Enable": true       "Quota": 549750000       "DestinationKey": "OBS"     },     {       "Enable": true       "Quota": 549750000       "DestinationKey": "-1525973679332"     },     {       "Enable": false       "Quota": 549750000       "DestinationKey": "-1522419628106"     }   ] }</pre>	
Output	
<pre>{"Status": "OK"}</pre>	
Example:	
Input: Disable Trial MariaDB	
<pre>{   "SysUser": "api_user",   "SysPwd": "qWeRtY123456!@#%\$",   "TrialMariaDB": false }</pre>	
Output	
<pre>{"Status": "OK"}</pre>	

### 3.2.2 UpdateConfig - Backup Server

The UpdateConfig.do API can be used to update the the following settings of AhsayCBS:

Proxy server  
 Admin contacts  
 System Homes  
 SNMP settings  
 Windows Event Logs  
 Connectors

The related settings can be found on the AhsayCBS web console at:

- [System Settings] > [Basic] > [General] or [Email]
- [System Settings] > [Advanced] > [Proxy] or [Logging]

<b>URL:</b>			
<a href="https://CBS.EXAMPLE.COM/cbs/api/json/UpdateConfig.do">https://CBS.EXAMPLE.COM/cbs/api/json/UpdateConfig.do</a>			
<b>Available since version:</b>			
9.1			
<b>Parameters:</b>			
Key	Type	Descriptions	
SysUser	String	Username of an AhsayCBS System User with Admin or API role	
SysPwd	String	Password matching SysUser	
UseEventLog	Boolean	Whether event log is enabled	
EventLogName	String	Name of event log	
Hostname	String	Hostname of the CBS server	
SystemHome	String	The directory containing all system files	
WebServers	Array of WebServer	Connectors	
SmtServers	Array of SmtServer	SmtServers settings	
AdminContacts	Array of Contact	Admin contacts in array	
UseProxy	Boolean	Enable proxy server	
ProxyUsername	String	User name of proxy server	
ProxyPassword	String	Password of the user of proxy server	
ProxyType	String	The value can be any one of the following:  HTTP SOCK	
ProxyHost	String	Hostname of the proxy server	
ProxyPort	String	Port used by the proxy server	
ProxyExcludeHosts	Array of ProxyExcludeHost	If you need to exclude some hostnames and IP addresses for proxy connection, you can add those excluded hostnames and IP addresses.	
EnableSnm	Boolean		
SnmStartIP	String		
SnmEndIP	String		
SnmTrapInfo	Boolean	SNMP Trap Level Information	
SnmTrapWarn	Boolean	SNMP Trap Level Warning	
SnmTrapErr	Boolean	SNMP Trap Level Error	
SnmPort	Integer	SNMP Trap port number	
SnmTrapRecv1	SnmTrapRecv	Receiver 1	
SnmTrapRecv2	SnmTrapRecv	Receiver 2	
SnmTrapRecv3	SnmTrapRecv	Receiver 3	
PreventSessionHijackingEnabled	Boolean	"true" or "false" to Enable/Disable prevent session hijacking	

Return Values:		
Key	Type	Descriptions
Status	String	"OK" or "Error"
Message	String	Error message, it exists only if status is "Error"
ExptType	String	The type of exception, it exists only if status is "Error"
JSON Objects:		
WebServer		
Key	Type	Descriptions
Id	Integer	Usually start from 0, ascending order
Ip	String	This is designed for servers with multiple IP addresses. This attribute specifies which IP address will be used for listening on the specified port. If only 1 IP address is used on your system, the default value 0.0.0.0 can be used.
Port	String	The TCP port number on which this connector will create a server socket and await incoming connections. Please make sure this port is not occupied by other application in your system.
Protocol	String	The value can be any one of the following: http https
MaxConn	String	Maximum number of connections allowed to server
MaxKeepAliveReq	String	Maximum number of requests to serve on a TCP connection
ConnTimeout	String	Connection timeout (milliseconds)
SslCertificateId	String	Name of an existing SSL Cert present in CBS. Empty string if not applicable.
RxBufSize	String	Size in bytes of the receive buffer socket. Default = 25188
TxBufSize	String	Size in bytes of the send buffer socket. Default = 43800
SmtServer		
Key	Type	Descriptions
HostName	String	
Port	Integer	
SecureProtocol	Boolean	
Auth	Boolean	set value = False, if SMTP server does not require login credentials
AuthUser	String	
AuthPwd	String	
ReportSender	Contact	
Owner	String	Name of owner, empty if owner is Admin
Contact		
Key	Type	Descriptions
Name	String	
Owner	String	Name of owner, empty if owner is Admin
Email	String	Example: <i>name@domain.com</i>
Address	String	
ReceiveBccEmail	Boolean	
ProxyExcludeHost		
Key	Type	Descriptions
Host	String	
SnmpTrapRecv		
Key	Type	Descriptions
Enable	Boolean	
Host	String	
TrapPort	String	

**Example:**

**Input**

```
{
  "SysUser": "api_user",
  "SysPwd": "qWeRtY123456!@#$%",
  "SendBccReports": true,
  "AdminContacts": [{"Name": "New1", "Email": "New1@example.com"}]
}
```

**Output**

```
{
  "Status": "OK"
}
```

**Example:**

**Input 2 :**

```
{
  "SysUser": "api_user",
  "SysPwd": "qWeRtY123456!@#$%",
  "SendBccReports": true,
  "AdminContacts": [{"Name": "New1", "Email": "New1@example.com"}]
}
```

**Output**

```
{
  "Status": "OK"
}
```

### 3.2.3 GetSystemSetting (v1,v2) - Backup Server

This API can be used to retrieve backup server related configuration such as the User Home and Free Trial Options for only the Admin, not SubAdmin.

The related settings can be found on the AhsayCBS web console:

🔗 [Backup / Restore] > [Basic] > [User Home] or [Free Trial Options]

#### v1 GetSystemSetting.do

<b>URL:</b>	
	<a href="https://CBS.EXAMPLE.COM/obs/api/json/GetSystemSetting.do">https://CBS.EXAMPLE.COM/obs/api/json/GetSystemSetting.do</a>
<b>Deprecated since version:</b>	
	7.15.6.38

#### v2 GetSystemSetting.do

GetSystemSetting.do was introduced for handling of features related to Quota Management.

<b>URL:</b>		
	<a href="https://CBS.EXAMPLE.COM/obs/api/json/2/GetSystemSetting.do">https://CBS.EXAMPLE.COM/obs/api/json/2/GetSystemSetting.do</a>	
<b>Available since version:</b>		
	9.5	
<b>Parameters:</b>		
Key	Type	Descriptions
SysUser	String	Username of an AhsayCBS System User with Admin, API, or RO API role
SysPwd	String	Password matching SysUser
<b>Return Values:</b>		
Key	Type	Descriptions
Status	String	"OK" or "Error"
Data	ConfigData	
Message	String	Error message, it exists only if status is "Error"
ExptType	String	The type of exception, it exists only if status is "Error"
<b>JSON Objects:</b>		
<b>UserHomes</b>		
Key	Type	Descriptions
QuotaSum	Long	
Quota	String	
PasswordProtected	Boolean	Whether it is located at password protected network drive
Password	String	
Username	String	
CurrentRatio	Long	Current QPS Ratio
Path	String	Path to the user home
Size	Long	Size of the user home

ConfigData		
Key	Type	Descriptions
EnableFreeTrial	Boolean	Enable / Disable the Free Trial Registration option.
ExpTrialStatus	String	"reset" or "suspend"
SuspendUserDays	Integer	The number of days that a user will be suspended.  The value can be any one of the following: "7", "8", ..., "29", "30", "45", "60", "75", "90"
SinceInactive	Boolean	
TrialMsExchange	Boolean	The trial option of Microsoft Exchange Server add-on module.
TrialMsSql	Boolean	The trial option of Microsoft SQL Server add-on module.
TrialMySql	Boolean	The trial option of MySQL Database Server add-on module.
TrialOracle	Boolean	The trial option of Oracle Database Server add-on module.
TrialDomino	Boolean	The trial option of Lotus Domino add-on module.
TrialNotes	Boolean	The trial option of Lotus Notes add-on module.
TrialWinServer2008BareMetal	Boolean	The trial option of Windows System Backup add-on module.
TrialMsWinSysState	Boolean	The trial option of Windows System State Backup add-on module.
TrialVMware	Boolean	The trial option of VMware add-on module.
TrialVMwareQuota	String	VMware module quota.
TrialVMwareQuotaType	Array	Default value is GUESTVM if not provided  The value can be any one of the following:  GUESTVM SOCKET
TrialMsVm	Boolean	The trial option of Hyper-V add-on module.
TrialMsVmQuota	String	Hyper-V module quota.
TrialMsVmQuotaType	Array	Default value is GUESTVM if not provided  The value can be any one of the following: GUESTVM SOCKET
TrialMsExchangeMailbox	Boolean	The trial option of Microsoft Exchange Mailbox add-on module.
TrialEMBQuota	String	Microsoft Exchange Mailbox module quota.
TrialNasClient	Boolean	The trial option of NAS add-on module.
TrialQnap	Boolean	The trial option of Qnap NAS add-on module.
TrialShadowProtectBareMetal	Boolean	The trial option of Shadow Protect System Backup add-on module.
TrialShadowCopy	Boolean	The trial option of Volume Shadow Copy add-on module.
TrialCdp	Boolean	The trial option of Continuous Data Protection add-on module.
TrialDeltaBlock	Boolean	The trial option of In-File Delta add-on module.
TrialMariaDB	Boolean	The trial option of MariaDB add-on module
TrialMobile	Boolean	The trial option of Mobile add-on module.
TrialMobileQuota	String	The Quota of mobile add-on module.
TrialOpenDirect	Boolean	The trial option of Open direct/Granular restore add-on module.
TrialOpenDirectQuota	String	The Quota of Open direct/Granular restore add-on module
EnableRemoveUser	Boolean	The option of trial user removal.
RemoveUserDays	String	The number of days to remove user after registration.  The value can be any one of the following: 30 60 90 120 150 180
UserHomes	Array	
TrialQuotaType	String	Quota Type, either TOTAL_QUOTA or PER_DESTINATION_QUOTA
TrialStorageQuota	Long	Total Quota in GB. Value validity examined when used by TOTAL_QUOTA
<b>TrialQuotaList</b>		
Key	Type	Descriptions
Name	Boolean	Name of the backup destination
Quota	String	Unit in bytes Value validity examined when used by PER_DESTINATION_QUOTA
DestinationKey	String	ID of the predefined destination, or OBS for quota on AhsayCBS
Quota	Integer	Unit in bytes

**Example:****Input**

```
{
  "SysUser": "api_user",
  "SysPwd": "qWeRtY123456!@#%$"
}
```

**Output**

```
{
  "Status": "OK",
  "Data": {
    "TrialShadowProtectBareMetal": true,
    "TrialMsWinSysState": true,
    "TrialMsVmQuotaTypes": [],
    "TrialNasClient": true,
    "TrialQnap": true,
    "TrialOracle": true,
    "TrialVMware": true,
    "TrialVMwareQuota": "2",
    "TrialMobile": false,
    "TrialMsVm": true,
    "UserHomes": [
      {
        "QuotaSum": 53844377601,
        "Quota": "Unlimited",
        "PasswordProtected": false,
        "Password": "",
        "Username": "",
        "CurrentRatio": 5.614574432373047,
        "Path": "F:\\new_home1",
        "Size": 959010828288
      }
    ],
    "EnableRemoveUser": true,
    "TrialMsExchange": true,
    "TrialMsVmQuotaType": "GUESTVM",
    "TrialDeltaBlock": true,
    "RemoveUserDays": "60",
    "TrialMySql": true,
    "TrialDomino": true,
    "TrialQuotaList": [
      {
        "Name": "AhsayCBS",
        "Quota": 52428800,
        "DestinationKey": "OBS"
      }
    ],
    "TrialMsSql": true,
    "TrialMsVmQuota": "2",
    "TrialCdp": true,
    "SuspendUserDays": 30,
    "TrialNotes": true,
    "TrialWinServer2008BareMetal": true,
    "TrialShadowCopy": true,
    "ExpTrialStatus": "suspend",
    "TrialVMwareQuotaType": "GUESTVM",
    "Sincelnactive": false,
    "TrialMsExchangeMailbox": true,
    "TrialEMBQuota": "5",
    "EnableFreeTrial": true,
    "TrialMobileQuota": "0",
    "TrialVMwareQuotaType": "GUESTVM",
    "TrialQuotaType": "PER_DESTINATION_QUOTA",
    "TrialStorageQuota": 1,
    "TrialMariaDB": false
  }
}
```



### 3.2.4 UpdateReplicationConfig

This API can be used to update the following replication settings:

- Replication destination
- Replication Proxy server
- Replication traffic limit
- Replication backup set

These settings can be found on the AhsayCBS web console at:

 [Replication] > [Sending Data] > [Replication]

<b>URL:</b>			
<a href="https://CBS.EXAMPLE.COM/obs/api/json/UpdateReplicationConfig.do">https://CBS.EXAMPLE.COM/obs/api/json/UpdateReplicationConfig.do</a>			
<b>Available since version:</b>			
9.1			
<b>Parameters:</b>			
Key	Type	Descriptions	
SysUser	String	Username of an AhsayCBS System User with Admin or API role	
SysPwd	String	Password matching SysUser	
EnableReplication	Boolean	Enable / Disable the option to replicate back up data to another server or predefined cloud storage.	
RepDestId	String	Destination ID of the replication destination	
ReplicationUseProxy	Boolean	Enable / Disable the use of proxy option in replication profile.	
ReplicationUseTrafficLimit	Boolean	Enable / Disable the use of replication traffic limit.	
TrafficLimits	Array of TrafficLimit	Configure the traffic limit settings to control traffic at a specific time	
ReplicateIndividualBset	Boolean	Enable / Disable the option to replicate individual backup set.	
ReplicateNewPaidBset	Boolean	Enable / Disable the option to replicate new backup sets of paid users.	
ReplicateNewTrialBset	Boolean	Enable / Disable the option to replicate new backup sets of trial users.	
RepBset	Array of RepBset	List of Individual backup sets marked for individual replication. Note: The array must relist to contain all backup sets for replication.	
<b>Return Values:</b>			
Key	Type	Descriptions	
Status	String	"OK" or "Error"	
Message	String	Error message, it exists only if status is "Error"	
ExptType	String	The type of exception, it exists only if status is "Error"	
<b>JSON Objects:</b>			
<b>TrafficLimit</b>			
Key	Type	Descriptions	
StartDayOfWeek	Integer	The start day of traffic limit. "1" stands for Sunday, "2" stands for "Monday" and so on.	
StartHour	Integer	The start hour of traffic limit. "0", "1"... "23" can be set.	
StartMin	Integer	The start minute of traffic limit. "0", "1"... "59" can be set.	
EndDayOfWeek	Integer	The end day of traffic limit. "1" stands for Sunday, "2" stands for "Monday" and so on.	
EndHour	Integer	The end hour of traffic limit. "0", "1"... "23" can be set.	
EndMin	Integer	The end minute of traffic limit. "0", "1"... "59" can be set.	
MaxTransferPerSec	String	Maximum number of KBytes transferred per second	

RepBSet		
Key	Type	Descriptions
Value	String	The username and backup set ID of the replicated backup set, joined with "+" as separator. For example, UserABC++123456789  Note: API will update the whole list, so any existing backupsets in the list will be removed if your "RepBSet" array does not include them.

#### Example – Traffic Limit:

Input
<pre>{   "SysUser": "api_user",   "SysPwd": "qWeRtY123456!@#%\$",   "EnableReplication": true,   "ReplicationUseTrafficLimit": true,   "TrafficLimits": [     {       "StartDayOfWeek": "4",       "StartHour": "3",       "StartMin": "30",       "EndDayOfWeek": "5",       "EndHour": "4",       "EndMin": "30",       "MaxTransferPerSec": "300"     }   ] }</pre>
Output
<pre>{"Status": "OK"}</pre>

#### Example – Create or Update RepBSet List (not necessary to include subadmin#):

Input
<pre>{   "SysUser": "api_user",   "SysPwd": "qWeRtY123456!@#%\$",   "EnableReplication": true,   "ReplicateIndividualBset": true,   "RepBSet": [     {"Value": "user12345++1578027193000"},     {"Value": "user67890++1578059639000"}   ] }</pre>
Output
<pre>{"Status": "OK"}</pre>

#### Example – Enable Replication New Trial Backupsets:

Input
<pre>{   "SysUser": "api_user",   "SysPwd": "qWeRtY123456!@#%\$",   "EnableReplication": true,   "ReplicateNewTrialBset": true }</pre>
Output
<pre>{"Status": "OK"}</pre>

### 3.2.5 UpdateLicense

This API can be used to update the licensee name and license key on the AhsayCBS server (for the backup server).

This setting can be found on the AhsayCBS web console at:

🔗 [System Settings] > [License] > [Backup]

<b>URL:</b>			
<a href="https://CBS.EXAMPLE.COM/obs/api/json/UpdateLicense.do">https://CBS.EXAMPLE.COM/obs/api/json/UpdateLicense.do</a>			
<b>Available since version:</b>			
9.1			
<b>Parameters:</b>			
Key	Type	Descriptions	
SysUser	String	Username of an AhsayCBS System User with Admin or API role	
SysPwd	String	Password matching SysUser	
Licensee	String	Licensee name	
Key	String	Product Key	
UseProxy	Boolean	Enable / Disable the use of proxy defined in the AhsayCBS to connect the internet.	
<b>Return Values:</b>			
Key	Type	Descriptions	
Status	String	"OK" or "Error"	
Message	String	Error message, it exists only if status is "Error"	
ExptType	String	The type of exception, it exists only if status is "Error"	
<b>Example:</b>			
<b>Input</b>			
<pre>{   "SysUser": "api_user",   "SysPwd": "qWeRtY123456!@#%\$",   "Licensee": "ABC_Backup",   "Key": "XyZ98-AbcDE-fGhIJ-98bcd-YZ" }</pre>			
<b>Output 1 - When license status is normal</b>			
<pre>{   "Status": "OK",   "Key": "XyZ98-AbcDE-fGhIJ-98bcd-YZ",   "Deactivated": false,   "Licensee": "ABC_Backup" }</pre>			
<b>Output 2 - User action required (e.g. Click the Update button on the web console)</b>			
<pre>{   "Status": "OK", "Key": "XyZ98-AbcDE-fGhIJ-98bcd-YZ", "Deactivated": false, "Info":   "Internal Error 1012. Please press the [Update] button in license page to correct this problem.   If the problem persists, please contact our technical support team to resolve this problem.", "Licensee":   "ABC_Backup" }</pre>			
<b>Output 3 - When incorrect license key was provided</b>			
<pre>{   "Status": "Error", "Message": "License key incorrect. Please try again." }</pre>			
<b>Output 4 - When AhsayCBS service was stopped</b>			
<pre>{   "Status": "OK", "Key": "XyZ98-AbcDE-fGhIJ-98bcd-YZ", "Deactivated": false, "Info": "[OEM License.checkLicTime] License expired on   1970-01-01. Backup server is stopped.", "Licensee": "ABC_Backup" }</pre>			

### 3.2.6 GetLicense (v1,v2)

This API can be used to collect the license and usage information of your AhsayCBS server.

These settings can be found on the AhsayCBS web console at:

🔗 [System Settings] > [License] > [Backup]

#### v1 GetLicense.do

<b>URL:</b>
<a href="https://CBS.EXAMPLE.COM/obs/api/json/GetLicense.do">https://CBS.EXAMPLE.COM/obs/api/json/GetLicense.do</a>
<b>Deprecated since version:</b>
8.3

#### v2 GetLicense.do

Since AhsayCBS version 8.3, the following add-on modules are combined into one add-on module, to make these modules that were previously separated, interchangeable:

- Hyper-V and VMware (Per Guest VM) add-on modules are combined
- Hyper-V and VMware (Per Socket) add-on modules are combined
- NAS - Synology and NAS - QNAP add-on modules are combined
- AhsayOBM and AhsayACB Microsoft 365 add-on modules are combined

**AhsayCBS**

Backup Redirector

**License Details**

Client Software	Quota	Used	Available
AhsayOBM	5200	7	5193
AhsayACB	100	1	99

Client Add-on Modules	Quota	Used	Available
Microsoft Exchange Mailbox (Per Mailbox)	10000	0	10000
Hyper-V / VMware (Per Guest VM)	2000	0	2000
Hyper-V / VMware (Per Socket)	2000	0	2000
NAS - Synology / NAS - QNAP	11000	2	10998
Mobile (Legacy)	1000	0	1000
Mobile	Unlimited	20	Unlimited
Microsoft 365	10050	14	10036
OpenDirect / Granular Restore	2000	0	2000

To facilitate such changes, a new version of the GetLicense.do API (v2 GetLicense.do) was introduced with the following parameters:

VMQuota	String	Hyper-V or VMware Guest VM Quota
UsedVMQuota	String	Used Hyper-V or VMware Guest VM Quota
RemainVMQuota	String	Available Hyper-V or VMware Guest VM Quota
HypervisorSocketQuota	String	Hyper-V or VMware Socket Quota
UsedHypervisorSocketQuota	String	Used Hyper-V or VMware Socket Quota
RemainHypervisorSocketQuota	String	Available Hyper-V or VMware Socket Quota
NasQuota	String	Synology or QNAP NAS client quota
UsedNasQuota	String	Used Synology or QNAP NAS client quota
RemainNasQuota	String	Available Synology or QNAP NAS client quota
Office365Quota	String	AhsayOBM Microsoft 365 or AhsayACB Microsoft 365 Quota
UsedOffice365Quota	String	Used AhsayOBM Microsoft 365 or AhsayACB Microsoft 365 Quota
RemainOffice365Quota	String	Available AhsayOBM Microsoft 365 or AhsayACB Microsoft 365 Quota

For AhsayCBS pre-8.3 you should use v1 API. For all other new versions, use v2 API to get accurate licensing details.

<b>URL:</b>		
	<a href="https://CBS.EXAMPLE.COM/obs/api/json/2/GetLicense.do">https://CBS.EXAMPLE.COM/obs/api/json/2/GetLicense.do</a>	
<b>Available since version:</b>		
	9.1	
<b>Parameters:</b>		
Key	Type	Descriptions
SysUser	String	Username of an AhsayCBS System User with Admin, API, or RO API role
SysPwd	String	Password matching SysUser

<b>Return Values:</b>		
Key	Type	Descriptions
Status	String	"OK" or "Error"
Data	LicenseData	
Message	String	Error message, it exists only if status is "Error"
ExptType	String	The type of exception, it exists only if status is "Error"
<b>JSON Objects:</b>		
<b>LicenseData</b>		
Key	Type	Descriptions
Key	String	Product key
Licensee	String	Licensee name
ProductName	String	Name of the product, e.g. "Offsite Backup Software, OEM Edition"
Version	String	Version of the AhsayCBS.
UseProxy	Boolean	Enable / Disable the use of proxy defined in the AhsayCBS to connect the internet.
LicTypeName	String	Name of license type
MaxObmUsers	String	Maximum number of OBM user CALs.
UsedObmQuota	String	Used OBM user CALs.
RemainObmQuota	String	Remaining OBM user CALs.
MaxAcbUsers	String	Maximum number of ACB user CALs.
UsedAcbQuota	String	Used ACB user CALs.
RemainAcbQuota	String	Remaining ACB user CALs.
ExpiryDate	String	Expire date of the license key.
SupExpDate	String	Expire date of the software support.
MaxQuota	String	Maximum backup quota of a user
Ip	String	The IP address of the AhsayCBS registered.
Port	String	The connection port of the AhsayCBS registered.
Mac	String	The MAC address of the network card that the AhsayCBS registered.
MaxUsers	String	Maximum number of users allowed.
AcbClientEnabled	Boolean	Enable / Disable the use of the ACB client module.
DagUseObm	String	Used OBM CALs due to DAG usage.
AcbUseObm	String	Used OBM CALs due to no ACB CALs.

EnableReplication	Boolean	Enable / Disable the use of the replication module.
EnableMSEExchangeMailbox	Boolean	Enable / Disable the use of the Exchange Mailbox module.
ExchangeMailboxQuota	String	Exchange Mailbox quota.
UsedExchangeMailboxQuota	String	Used Exchange Mailbox quota.
RemainExchangeMailboxQuota	String	Remaining Exchange Mailbox quota.
VMQuota	String	Hyper-V / VMware (Per Guest VM) quota.
UsedVMQuota	String	Used Hyper-V / VMware (Per Guest VM) quota.
RemainVMQuota	String	Remaining Hyper-V / VMware (Per Guest VM) quota.
HypervisorSocketQuota	String	Hyper-V / VMware (Per Socket) quota.
UsedHypervisorSocketQuota	String	Used Hyper-V / VMware (Per Socket) quota.
RemainHypervisorSocketQuota	String	Remaining Hyper-V / VMware (Per Socket) socket quota.
EnableMobile	Boolean	Enable / Disable the use of AhsayMOB.
MobileQuota	String	AhsayMOB quota.
UsedMobileQuota	String	Used AhsayMOB quota.
RemainMobileQuota	String	Remaining AhsayMOB quota
Office365Quota	String	AhsayACB / AhsayOBM Microsoft 365 mail quota.
UsedOffice365Quota	String	Used AhsayACB / AhsayOBM Microsoft 365 mail quota.
RemainOffice365Quota	String	Remaining AhsayACB / AhsayOBM Microsoft 365 quota.
OpenDirectQuota	String	Granular restore/ open direct quota
UsedOpenDirectQuota	String	Used Granular restore quota.
RemainOpenDirectQuota	String	Remaining Granular restore quota.
NasQuota	String	Synology / QNAP - NAS client quota.
UsedNasQuota	String	Used Synology / QNAP - NAS client quota.
RemainNasQuota	String	Remaining Synology / QNAP - NAS client quota.
Deactivated	Boolean	Disabled / Enabled license key.
EnableNasServer	Boolean	Enable / Disable the NAS server module.
EnableUbs	Boolean	Enable / Disable the AhsayUBS module.
EnableHa	Boolean	Enable / Disable the HA module.
MobileQuotaV2	String	AhsayMobile Backup quota.
UsedMobileV2Quota	String	Used AhsayMobile Backup quota.
RemainMobileV2Quota	String	Remaining AhsayMobile Backup quota

#### Example:

##### Input

```
{
  "SysUser": "api_user",
  "SysPwd": "qWeRtY123456!@#%$%"
}
```

##### Output

```
{
  "Status": "OK",
  "Data": {
    "MobileQuota": "0",
    "HypervisorSocketQuota": "0",
    "ExpiryDate": "UNLIMITED",
    "RemainMobileV2Quota": "0",
    "ProductName": "Online Backup Software, OEM Evaluation Edition",
    "MaxUsers": "10",
    "Port": "8081",
    "RemainVMQuota": "0",
    "LicenseFile": "",
    "RemainObmQuota": "10",
    "Version": "8.5.0.63",
    "NasQuota": "0",
    "EnableCbs": false,
    "UsedNasQuota": "0",
    "Licensee": "EvaluationOnly",
    "RemainMobileQuota": "0",
    "RemainOffice365Quota": "0",
    "UsedObmQuota": "0",
    "UsedAcbRepQuota": 0,
    "RemainAcbRepQuota": 0,
    "MaxObmUsers": "10",
    "RemainOpenDirectQuota": "0",
    "EnableUbs": false,
  }
}
```

```
"Mac": "08-00-27-72-37-A8",
"RemainAcbQuota": "0",
"AcbRepQuota": 0,
"UsedMobileQuota": "0",
"RemainNasQuota": "0",
"UsedMobileV2Quota": "0",
"RemainExchangeMailboxQuota": "0",
"RemainHypervisorSocketQuota": "0",
"Key": "62pMG-YPD6l-3ggaG-b5MCT-XX",
"EnableHa": false,
"ObmRepQuota": 0,
"Description": "",
"Ip": "127.0.0.1",
"MaxAcbUsers": "0",
"UsedHypervisorSocketQuota": "0",
"DagUseObm": 0,
"UsedVMQuota": "0",
"MobileQuotaV2": "0",
"AcbUseObm": 0,
"UsedExchangeMailboxQuota": "0",
"RemainObmRepQuota": 0,
"UsedAcbQuota": "0",
"OpenDirectQuota": "0",
"LicType": 12,
"UseProxy": false,
"SupExpDate": "",
"VMQuota": "0",
"LicTypeName": "OEM Evaluation License",
"Office365Quota": "0",
"AcbUseObmRep": 0,
"BrandedProductName": "",
"UsedOffice365Quota": "0",
"ExchangeMailboxQuota": "0",
"DateFormat": "MM/dd/yyyy",
"MaxQuota": "UNLIMITED",
"UsedOpenDirectQuota": "0",
"UsedObmRepQuota": 0
```

```
}
```

```
}
```

### 3.2.7 GetReplicationMode

This API can be used to retrieve the current replication status on the backup server.

This setting can be found on the AhsayCBS web console at:

[\[Monitoring\]](#) > [\[Replication Logs\]](#)

<b>URL:</b>		
	<a href="https://CBS.EXAMPLE.COM/obs/api/json/GetReplicationMode.do">https://CBS.EXAMPLE.COM/obs/api/json/GetReplicationMode.do</a>	
<b>Available since version:</b>		
	9.1	
<b>Parameters:</b>		
Key	Type	Descriptions
SysUser	String	Username of an AhsayCBS System User with Admin, API, or RO API role
SysPwd	String	Password matching SysUser
<b>Return Values:</b>		
Key	Type	Descriptions
Status	String	"OK" or "Error"
Data	ReplicationData	
Message	String	Error message, it exists only if status is "Error"
ExptType	String	The type of exception, it exists only if status is "Error"
<b>JSON Objects:</b>		
<b>ReplicationData</b>		
Key	Type	Descriptions
Enable	Boolean	Enable / Disable of the replication.
Replicators	Array of Replicator	
<b>Replicator</b>		
Key	Type	Descriptions
LoginName	String	Client user name
BackupSetID	String	The 13 digit backup set ID.
Mode	String	The value can be any one of the following: RESYNC REPLAY PENDING SLEEPING
File	String	The file that is currently replicating.



**Example:****Input**

```
{
  "SysUser": "api_user",
  "SysPwd": "qWeRtY123456!@#$$%"
}
```

**Output**

```
{
  "Status": "OK",
  "Data": {
    "Enable": true,
    "Replicators": [
      {
        "LoginName": "userA",
        "File": "",
        "BackupSetID": "1463141188151",
        "Mode": "RESYNC"
      }
    ]
  }
}
```

### 3.2.8 AddPredefinedDestination

This API can be used to add (create) a predefined destination on the backup server.

This setting can be found on the AhsayCBS web console at:

🔗 [System Settings] > [Basic] > [Predefined Destinations]

<b>URL:</b>		
	<a href="https://CBS.EXAMPLE.COM/cbs/api/json/AddPredefinedDestination.do">https://CBS.EXAMPLE.COM/cbs/api/json/AddPredefinedDestination.do</a>	
<b>Available since version:</b>		
	9.3	
<b>Parameters:</b>		
Key	Type	Descriptions
SysUser	String	Username of an AhsayCBS System User with Admin or API role
SysPwd	String	Password matching SysUser
Type	String	The type of the predefined destination, please use one of the available type within the set provided in the table " <b>Destination Type</b> ".
DestinationName	String	The name of the predefined destination, if not provided, the name will be auto-generated by the server.
DestinationSettings	JSON Object	The settings for the predefined destination, the underlying parameters are specific to each destination type. Please refer to the tables labeled with " <b>DestinationSettings (DESTINATION_TYPE)</b> " for the correct format of each destination type.
Owner	String	The owner administrator name of this newly added predefined destination, defaults to <b>ADMIN</b> .
<b>Return Values:</b>		
Key	Type	Descriptions
Status	String	"OK" or "Error"
Message	String	Error message, it exists only if status is "Error"
DestinationID	String	The ID for the newly added predefined destination, available only for successful addition.
ExptType	String	The type of the exception (Java class name), available only in error response body.

<b>JSON Objects:</b>		
<b>Additional Fields (Merge into Return Values on Error)</b>		
Key	Type	Descriptions
InstructionID	String	The instruction id of this error, please refer to the table " <b>Instruction ID</b> " for the value set.
AvailableOptions	JSON Object	The available options for certain missing parameters, this field will be set when <b>InstructionID</b> equals <b>MISSING_PARAMETER</b> .
OAuthUrl	String	The authorization url for retrieving the authorization token, this field will be set when <b>InstructionID</b> equals <b>OAUTH_OPEN_URL</b> .
Message	String	The detailed message of this error.

Destination Type:	
Type	Description
FTP	A FTP based destination
SFTP	A SFTP based destination
Local	A local destination (local to the client)
OBS	A destination ("User Home") provided by the CBS server
Pooled	A destination pool
RPS	Used for replication
Aliyun	Alibaba Aliyun
AWSCompatible	AWS Compatible
Azure	Microsoft Azure
Backblaze	Backblaze
CTYun	China Telecom CTYun
Dropbox	Dropbox
GCS	Google Cloud Service
GDrive	Google Drive
OneDrive	Microsoft OneDrive
OneDrive4Biz	Microsoft OneDrive for Business
OpenStack	OpenStack
Rackspace	Rackspace
S3	Amazon S3
Wasabi	Wasabi

Instruction ID:	
Value	Descriptions
MISSING_PARAMETER	Returned from a failed addition of predefined destination, due to a missing parameter with predefined value set. If encountered this ID, please refer to <b>RESPONSE_BODY.Message</b> for instructions and <b>RESPONSE_BODY.AvailableOptions</b> for the value set.
OAuth_OPEN_URL	Returned from a failed addition of predefined destination, due to undefined or empty authorization token in the request body. If encountered, please refer to <b>RESPONSE_BODY.Message</b> for instructions and <b>RESPONSE_BODY.OAuthUrl</b> for the url to kick start the authorization procedure.

JSON Objects:		
DestinationSettings (FTP)		
Key	Type	Descriptions
Host	String	The hostname of the FTP server.
Port	String	The port of the FTP server.
Username	String	The username of the FTP account.
Password	String	The password of the FTP account.
Ssl	Boolean	Whether the FTP connection will be in SSL mode.

JSON Objects:		
DestinationSettings (SFTP)		
Key	Type	Descriptions
Host	String	The hostname of the SFTP server.
Port	String	The port of the SFTP server.
Username	String	The username of the SFTP account.
Password	String	The password of the SFTP account.

JSON Objects:		
DestinationSettings (Local)		
Key	Type	Descriptions
TopDir	String	The path to the target directory, can be network locations.
Username	String	The username of the access account if the location access requires credentials.
Password	String	The password of the access account if the location access requires credentials.

JSON Objects:		
DestinationSettings (Pooled)		
Key	Type	Descriptions
DestinationIDList	JSON Array	An array of predefined destination ids, all of the ids should reference any existing predefined destination within the CBS server.

JSON Objects:		
DestinationSettings (RPS)		
Key	Type	Descriptions
Host	String	The hostname of the target replication CBS server.
Port	String	The port of the target replication CBS server.
Username	String	The username of the replication account created within the replication CBS server.
Password	String	The password of the replication account created within the replication CBS server.
Ssl	Boolean	Whether the connection uses SSL, defaults to <b>false</b> .

Aliyun DestinationSettings for AddPredefinedDestination.do

JSON Objects:		
DestinationSettings (Aliyun)		
Key	Type	Descriptions
AccessKey	String	The access key.
SecretKey	String	The secret key.
Location	String	The location of this destination, please refer to the table "Aliyun Location" for the value set.
BucketName	String	The bucket name, optional.
Aliyun Location:		
Location	Value	
China (Hangzhou)	oss-cn-hangzhou	
China (Shanghai)	oss-cn-shanghai	
China (Qingdao)	oss-cn-qingdao	
China (Beijing)	oss-cn-beijing	
China (Zhangjiakou)	oss-cn-zhangjiakou	
China (Hohhot)	oss-cn-huhehaote	
China (Ulanqab)	oss-cn-wulanchabu	
China (Shenzhen)	oss-cn-shenzhen	
China (Heyuan)	oss-cn-heyuan	
China (Guangzhou)	oss-cn-guangzhou	
China (Chengdu)	oss-cn-chengdu	
China (Hong Kong)	oss-cn-hongkong	
Singapore	oss-ap-southeast-1	
Australia (Sydney)	oss-ap-southeast-2	
Malaysia (Kuala Lumpur)	oss-ap-southeast-3	
Indonesia (Jakarta)	oss-ap-southeast-5	
Japan (Tokyo)	oss-ap-northeast-1	
India (Mumbai)	oss-ap-south-1	
Germany (Frankfurt)	oss-eu-central-1	
UK (London)	oss-eu-west-1	
US (Silicon Valley)	oss-us-west-1	
US (Virginia)	oss-us-east-1	
UAE (Dubai)	oss-me-east-1	

AWSCompatible DestinationSettings for AddPredefinedDestination.do

JSON Objects:		
DestinationSettings (AWSCompatible)		
Key	Type	Descriptions
Host	String	The hostname of the AWS Compatible service.
Port	String	The port of the AWS Compatible service.
AccessKey	String	The access key.
SecretKey	String	The secret key.
BucketName	String	The bucket name.

Azure DestinationSettings for AddPredefinedDestination.do

JSON Objects:		
<b>DestinationSettings (Azure)</b>		
Key	Type	Descriptions
StorageAccountName	String	The storage account name.
AccessKey	String	The access key of this storage account.
Region	String	The region for this storage, please refer to table "Azure Region" for the value set.
Azure Region:		
Region	Value	
Global	GLOBAL	
China	CHINA	
Germany	GERMANY	
USGOV	USGOV	

Backblaze DestinationSettings for AddPredefinedDestination.do

JSON Objects:		
DestinationSettings (Backblaze)		
Key	Type	Descriptions
KeyId	String	The key id.
ApplicationKey	String	The application key.
BucketName	String	The bucket name.



CTYun DestinationSettings for AddPredefinedDestination.do

JSON Objects:		
DestinationSettings (CTYun)		
Key	Type	Descriptions
AccessKey	String	The access key.
AccessSecretKey	String	The access secret key.

Dropbox DestinationSettings for AddPredefinedDestination.do

JSON Objects:		
DestinationSettings (Dropbox)		
Key	Type	Descriptions
AccessToken	String	The authorization token retrieved from Dropbox site, when this field is undefined or empty, the request will fail, with <b>RESPONSE_BODY.InstructionID</b> set to <b>OAUTH_OPEN_URL</b> and <b>RESPONSE_BODY.OAuthUrl</b> set to the url for kick-starting the authorization procedure.

JSON Objects:			
<b>DestinationSettings (GCS)</b>			
Key	Type	Descriptions	
AccessKey	String	The access key.	
Secret	String	The secret key.	
LocationType	String	The location type of this destination, please refer to the table “GCS Location Type” for the value set.	
Location	String	The location of this destination, please refer to the table “GCS Location” for the value set.	
StorageClass	String	The storage class name of this destination, please visit <a href="https://cloud.google.com/storage/docs/storage-classes">https://cloud.google.com/storage/docs/storage-classes</a> for the latest documentation.	
GCS Location Type:			
Type	Value		
Region	REGION		
Multi-Region	MULTI_REGION		
Dual-Region	DUAL_REGION		
GCS Location:			
Location	Value		
Montréal	NORTHAMERICA-NORTHEAST1		
Iowa	US-CENTRAL1		
South Carolina	US-EAST1		
Northern Virginia	US-EAST4		
Oregon	US-WEST1		
Los Angeles	US-WEST2		
Salt Lake City	US-WEST3		
Las Vegas	US-WEST4		
São Paulo	SOUTHAMERICA-EAST1		
Warsaw	EUROPE-NORTH1		
Belgium	EUROPE-WEST1		
London	EUROPE-WEST2		
Frankfurt	EUROPE-WEST3		
Netherlands	EUROPE-WEST4		
Zürich	EUROPE-WEST6		
Taiwan	ASIA-EAST1		
Hong Kong	ASIA-EAST2		
Tokyo	ASIA-NORTHEAST1		
Osaka	ASIA-NORTHEAST2		
Seoul	ASIA-NORTHEAST3		
Mumbai	ASIA-SOUTH1		
Singapore	ASIA-SOUTHEAST1		
Jakarta	ASIA-SOUTHEAST2		
Sydney	AUSTRALIA-SOUTHEAST1		

Google Drive DestinationSettings for AddPredefinedDestination.do

JSON Objects:		
DestinationSettings (GDrive)		
Key	Type	Descriptions
Token	String	The authorization token retrieved from Google Drive site, when this field is undefined or empty, the request will fail, with <b>RESPONSE_BODY.InstructionID</b> set to <b>OAUTH_OPEN_URL</b> and <b>RESPONSE_BODY.OAuthUrl</b> set to the url for kick-starting the authorization procedure.

Microsoft OneDrive DestinationSettings for AddPredefinedDestination.do

JSON Objects:		
DestinationSettings (OneDrive)		
Key	Type	Descriptions
Token	String	The token for the destination, if the provided value is undefined or empty, the request will fail, with <b>RESPONSE_BODY.InstructionID</b> set to <b>OAUTH_OPEN_URL</b> and <b>RESPONSE_BODY.OAuthUrl</b> set to the url for kick-starting the authorization procedure.

Microsoft OneDrive for Business DestinationSettings for AddPredefinedDestination.do

JSON Objects:		
DestinationSettings (OneDrive4Biz)		
Key	Type	Descriptions
Token	String	The token for the destination, if the provided value is undefined or empty, the request will fail, with <b>RESPONSE_BODY.InstructionID</b> set to <b>OAUTH_OPEN_URL</b> and <b>RESPONSE_BODY.OAuthUrl</b> set to the url for kick-starting the authorization procedure.
Region	String	The region of the destination, Please refer to the table “ <b>OneDrive4Biz Region</b> ” for the value set.
OneDrive4Biz Region:		
Location	Value	
Global	GLOBAL	
China	CHINA	
Germany	GERMANY	

OpenStack DestinationSettings for AddPredefinedDestination.do

JSON Objects:		
DestinationSettings (OpenStack)		
Key	Type	Descriptions
Host	String	The hostname of the OpenStack service.
Port	String	The port of the OpenStack service.
Username	String	The username of the service account.
Password	String	The password of the service account.
Project	String	The project name for this destination. If this value is undefined, <b>RESPONSE_BODY.InstructionID</b> set to <b>MISSING_PARAMETERS</b> , please follow the instruction provided in <b>RESPONSE_BODY.Message</b> to select the project for this destination.

Rackspace DestinationSettings for AddPredefinedDestination.do

JSON Objects:		
DestinationSettings (Rackspace)		
Key	Type	Descriptions
Username	String	The username of a Rackspace account.
ApiKey	String	The API key to for accessing Rackspace APIs.
Region	String	The region name of the Rackspace service, please refer to the table <b>"Rackspace Region"</b> for the value set.
ContainerName	String	The container name of this destination.
Rackspace Region:		
Region	Value	
Chicago	ORD	
Dallas Ft Worth	DFW	
Hong Kong	HKG	
London	LON	
Northern Virginia	IAD	
Sydney	SYD	



JSON Objects:		
<b>DestinationSettings (S3)</b>		
Key	Type	Descriptions
AccessKey	String	The access key.
SecretKey	String	The secret key.
Location	String	The location of this destination, please refer to the table “S3 Location” for the value set.
StorageClass	String	The storage class of this destination, please refer to the table “S3 Storage Class” for the value set.
BucketName	String	The bucket name, optional.
S3 Location:		
Location	Value	
Africa (Cape Town)	af-south-1	
Asia Pacific (Hong Kong)	ap-east-1	
Asia Pacific (Mumbai)	ap-south-1	
Asia Pacific (Osaka-Local)	ap-northeast-3	
Asia Pacific (Seoul)	ap-northeast-2	
Asia Pacific (Singapore)	ap-southeast-1	
Asia Pacific (Sydney)	ap-southeast-2	
Asia Pacific (Tokyo)	ap-northeast-1	
Canada (Central)	ca-central-1	
China (Beijing)	cn-north-1	
China (Ningxia)	cn-northwest-1	
Europe (Ireland)	eu-west-1	
Europe (Frankfurt)	eu-central-1	
Europe (London)	eu-west-2	
Europe (Milan)	eu-south-1	
Europe (Stockholm)	eu-north-1	
AWS GovCloud (US-East)	us-gov-east-1	
AWS GovCloud (US)	us-gov-west-1	
Middle East (Bahrain)	me-south-1	
South America (Sao Paulo)	sa-east-1	
US East (Ohio)	us-east-2	
US West (Northern California)	us-west-2	
S3 Storage Class:		
Type	Value	
<b>Standard:</b> ideal for performance-sensitive use cases and frequently accessed data. This is the default storage class.	STANDARD	
<b>Standard - Infrequent Access Storage:</b> (IA, for infrequent access) is optimized for long-lived and less frequently accessed data, for example backups and older data where of access has diminished, but the use case still demands high performance	STANDARD_IA	
<b>Intelligent - Tiering Storage:</b> long-lived data with changing or unknown access patterns	INTELLIGENT_TIERING	
<b>One Zone - Infrequent Access Storage:</b> long-lived, infrequently accessed, non-critical data	ONEZONE_IA	
<b>Reduced Redundancy Storage (RRS):</b> (RRS) storage class is designed for noncritical, reproducible data stored at lower levels of redundancy than the STANDARD storage class, which reduces storage costs	REDUCED_REDUNDENCY	

Wasabi DestinationSettings for AddPredefinedDestination.do

JSON Objects:		
<b>DestinationSettings (Wasabi)</b>		
Key	Type	Descriptions
AccessKey	String	The access key.
SecretKey	String	The secret key.
BucketName	String	Optional, the bucket name.
Location	String	The location of the Wasabi service, please refer to the <b>“Wasabi Location”</b> table for the value set.
Wasabi Location:		
Location	Value	
Toronto	ca-central-1	
Oregon	us-west-1	
Plano, Texas	us-central	
Northern Virginia	us-east-1	
Southern Virginia	us-east-2	
Amsterdam	eu-central-1	
Frankfurt	eu-central-2	
London	eu-west-1	
Paris	eu-west-2	
Tokyo	ap-northeast-1	
Osaka	ap-northeast-2	
Singapore	ap-southeast-1	
Sydney	ap-southeast-2	

Examples for AddPredefinedDestination.do

Example:	
	<b>Input – Create Google Drive Predefined Destination</b>
	<pre>{   "SysUser": "system",   "SysPwd": "system",   "Type": "GDrive",   "SkipVerify": false,   "DestinationSettings": {     "Token": "9/abc0e-g5bc2XX2jepVtYRSiA6J4Q03rgVPfssYVu3xhyI9PiHqkiabmwM3I"   } }</pre>
	<b>Output</b>
	<pre>{   "Status": "OK",   "DestinationID": "-1620712268943" }</pre>

Example:	
	<b>Input – Invalid Token for Google Drive Predefined Destination</b>
	<pre>{   "SysUser": "system",   "SysPwd": "system",   "Type": "GDrive",   "DestinationSettings": {     "Token": "FAKE"   } }</pre>
	<b>Output</b>
	<pre>{   "Status": "Error",   "Message": "[GDriveManager\$GDriveAuthorization.getOAuth2TokensByTempKey] Failed to get OAuth2Tokens after retrieved from GDrive",   "ExptType": "java.lang.Exception" }</pre>

### Example:

#### Input – Invalid OpenStack Predefined Destination

```
{
  "SysUser": "system",
  "SysPwd": "system",
  "Type": "OpenStack",
  "DestinationSettings": {
    "Host": "10.0.0.48",
    "Port": "5000",
    "Username": "svcacct",
    "Password": "qwerty"
  }
}
```

#### Output -- Required Key Missing from Input

```
{
  "Status": "Error",
  "Message": "Please choose a value in (AvailableOptions) for the missing parameter (project)",
  "InstructionID": "MISSING_PARAMETER",
  "ExptType": "java.lang.Exception",
  "AvailableOptions": {
    "svcacct": "99b7b348e2fd4eaf9902dddf345b0eee",
    "aaaPlaceholder": "c3b3425857f74051a0470076cfc3edfd"
  }
}
```

#### Input – Correct OpenStack Predefined Destination

```
{
  "SysUser": "system",
  "SysPwd": "system",
  "Type": "OpenStack",
  "DestinationSettings": {
    "Host": "10.0.0.48",
    "Port": "5000",
    "Username": "svcacct",
    "Password": "qwerty",
    "Project": "99b7b348e2fd4eaf9902dddf345b0eee"
  }
}
```

## 3.3 System User

### 3.3.1 AddSysUser

This API can be used to add a system user(s).

This settings can be found on the AhsayCBS web console at:

🔗 [System Settings] > [Basic] > [Administrative Access]

NOTE: Starting with CBS v8.3.4.0 affecting all API, if CBS Administrative Access feature is enabled, may see error message "Your password has expired and must be changed. Please update in web console or by UpdateSysUser API" if system user's password is expired when calling any API except UpdateSysUser.do). AddSysUser.do and UpdateSysUser.do may see error regarding password complexity when complexity settings is enabled.

This setting can be found on the AhsayCBS web console at:

🔗 [Administrative Access] > [Password]

URL:		
	<a href="https://CBS.EXAMPLE.COM/obs/api/json/AddSysUser.do">https://CBS.EXAMPLE.COM/obs/api/json/AddSysUser.do</a>	
Available since version:		
	9.1	
Parameters:		
Key	Type	Descriptions
SysUser	String	Username of an AhsayCBS System User with Admin or API role
SysPwd	String	Password matching SysUser
LoginName	String	Login name of the system user
Password	String	
PasswordHashed	Boolean	An indicator for account's input password is hashed or not.  Default <i>false</i> if NOT in request.  NOTE: If set the <i>PasswordHashed</i> to <i>false</i> , the 'Password' will be hashed and stored. If set as <i>true</i> , 'Password' will be stored as-is. If set the <i>PasswordHashed</i> to <i>true</i> and not using a hashed password, then can't login to the system.  Hash algorithm: Plaintext input → encode Hash algorithm SHA-256 → output Hex bytes → encode Hex-Base64 → Hashed text output
Role	String	Role of the system account  The value can be set to one of the following:  ADMIN READ_ONLY_ADMIN RESELLER API_ONLY
Hostname	String	Mandatory if "Role" is set to RESELLER
IP	String	Mandatory if "Role" is set to RESELLER  Note: The IP address must include the HTTPS connector port, for example: 0.0.0.0:443
IsShowRebrandingPages	Boolean	Corresponding to the three checkboxes on CBS UI when edit a sub-admin Applies only if "Role" is set to RESELLER
IsSendConsolidatedReport	Boolean	Corresponding to the three checkboxes on CBS UI when edit a sub-admin Applies only if "Role" is set to RESELLER

IsFreeTrialOfferAllowed	Boolean	True = Allow sub-admin accounts to configure Free Trial options and allow to set users to Trial user type.  Corresponding to the three checkboxes on CBS UI when edit a sub-admin Applies only if "Role" is set to RESELLER
-------------------------	---------	--

#### Return Values:

Key	Type	Descriptions
Status	String	"OK" or "Error"
Message	String	Error message, it exists only if status is "Error"
ExptType	String	The type of exception, it exists only if status is "Error"

#### Example:

Input
<pre>{   "SysUser":"system",   "SysPwd":"system",   "LoginName":"api_user",   "Password":"qWeRtY123456!@#%\$",   "PasswordHashed":"false",   "Role":"API_ONLY" }</pre>
Output
<pre>{"Status":"OK"}</pre>
Output 2 - If another user with the same user name exist already
<pre>{   "Status": "Error",   "Message": "Name is already used. Please use another name.",   "ExptType": "java.lang.Exception" }</pre>

#### Example:

Input – Input IsSendConsolidatedReport for Role=ADMIN
<pre>{   "SysUser":"system",   "SysPwd":"system",   "LoginName":"AdminTom",   "Password":"qWeRtY123456!@#%\$",   "Role":"ADMIN",   "IsSendConsolidatedReport":"true" }</pre>
Output
<pre>{   "Status": "Error",   "Message": "Update consolidated report setting for 'Admin' system user through 'UpdateServerConfig.do'",   "ExptType": "java.lang.Exception" }</pre>

#### Example:

Input – Input IsShowRebrandingPages for Role=ADMIN
<pre>{   "SysUser":"system",   "SysPwd":"system",   "LoginName":"AdminTom ",   "Password":"qWeRtY123456!@#%\$",   "Role":"ADMIN",   "IsShowRebrandingPages":"false" }</pre>
Output
<pre>{   "Status": "Error",   "Message": "Invalid parameter IsShowRebrandingPages for ADMIN system user",   "ExptType": "java.lang.Exception" }</pre>

### 3.3.2 UpdateSysUser

This API can be used to update the password and Status of a system user.

This setting can be found on the AhsayCBS web console at:

🔗 [System Settings] > [Basic] > [Administrative Access]

NOTE: Starting with CBS v8.3.4.0 affecting all API, if CBS Administrative Access feature is enabled, may see error message "Your password has expired and must be changed. Please update in web console or by UpdateSysUser API" if system user's password is expired when calling any API except *UpdateSysUser.do*. *AddSysUser.do* and *UpdateSysUser.do* may see error regarding password complexity when complexity settings is enabled.

This setting can be found on the AhsayCBS web console at:

🔗 [Administrative Access] > [Password]

URL:			
<a href="https://CBS.EXAMPLE.COM/obs/api/json/UpdateSysUser.do">https://CBS.EXAMPLE.COM/obs/api/json/UpdateSysUser.do</a>			
Available since version:			
9.1			
Parameters:			
Key	Type	Descriptions	
SysUser	String	Username of an AhsayCBS System User with Admin or API role	
SysPwd	String	Password matching SysUser	
LoginName	String	Login name of the system user	
Password	String	Pass in plaintext password or hashed password. If passing hashed, include PasswordHashed key. Use ListSystemUsers.do to lookup <i>HashedPwd</i> .	
Status	String	"SUSPENDED" / "ENABLED"	
PasswordHashed	Boolean	An indicator for account's input password is hashed or not.  Default <i>false</i> if NOT in request.  NOTE: If set the <i>PasswordHashed</i> to <i>false</i> , the 'Password' will be hashed and stored. If set as <i>true</i> , 'Password' will be stored as-is. If set the <i>PasswordHashed</i> to <i>true</i> and not using a hashed password, then can't login to the system.  Hash algorithm: Plaintext input → encode Hash algorithm SHA-256 → output Hex bytes → encode Hex-Base64 → Hashed text output	
IsShowRebrandingPages	Boolean	Corresponding to the three checkboxes on CBS UI when edit a sub-admin Apples only if "Role" is set to RESELLER	
IsSendConsolidatedReport	Boolean	Corresponding to the three checkboxes on CBS UI when edit a sub-admin Apples only if "Role" is set to RESELLER	
IsFreeTrialOfferAllowed	Boolean	True = Allow sub-admin accounts to configure Free Trial options and allow to set users to Trial user type.  Corresponding to the three checkboxes on CBS UI when edit a sub-admin Apples only if "Role" is set to RESELLER	
Return Values:			
Key	Type	Descriptions	
Status	String	"OK" or "Error"	
Message	String	Error message, it exists only if status is "Error"	
ExptType	String	The type of exception, it exists only if status is "Error"	

Example:	
	<b>Input</b>
	<pre>{   "SysUser": "system",   "SysPwd": "password",   "LoginName": "admin123",   "Password": "changepassword",   "PasswordHashed": "false", }</pre>
	<b>Output</b>
	<pre>{"Status": "OK"}</pre>
Example:	
	<b>Input - Missing the LoginName parameter</b>
	<pre>{   "SysUser": "system",   "SysPwd": "password",   "Password": "changepassword" }</pre>
	<b>Output</b>
	<pre>{   "Status": "Error",   "Message": "[Error] Parameter LoginName is null/empty!",   "ExptType": "com.ahsay.obs.core.dbs.c" }</pre>

Example:	
	<b>Input</b>
	<pre>{   "SysUser": "system",   "SysPwd": "password",   "LoginName": "admin123",   "Password": "changepassword",   "Status": "ENABLED" }</pre>
	<b>Output</b>
	<pre>{"Status": "OK"}</pre>

Example:	
	<b>Input</b>
	<pre>{   "SysUser": "system",   "SysPwd": "password",   "LoginName": "admin123",   "Password": "changepassword",   "Status": "LOCKED" }</pre>
	<b>Output</b>
	<pre>{   "Status": "Error",   "Message": "Invalid value. 'Status' must be 'ENABLED' or 'SUSPENDED'.",   "ExptType": "com.ahsay.obs.core.dbs.DbsException" }</pre>



**Example:****Input**

```
{
  "SysUser": "system",
  "SysPwd": "password",
  "LoginName": "admin123",
  "Password": "change password",
  "Status": 0
}
```

**Output**

```
{
  "Status": "Error",
  "Message": "JSONObject[\"Status\"] not a string.",
  "ExptType": "org.json.JSONException"
}
```

**Example:****Input**

```
{
  "SysUser": "system",
  "SysPwd": "password"
}
```

**Output**

```
{
  "Status": "Error",
  "Message": "[Error] Parameter LoginName is null/empty!",
  "ExptType": "com.ahsay.obs.core.dbs.DbsException"
}
```

### 3.3.3 RemoveSysUser

This API can be used to remove a system user.

The related settings can be found on the AhsayCBS web console at:

🔗 [System Settings] > [Basic] > [Administrative Access]

<b>URL:</b>			
<a href="https://CBS.EXAMPLE.COM/obs/api/json/RemoveSysUser.do">https://CBS.EXAMPLE.COM/obs/api/json/RemoveSysUser.do</a>			
<b>Available since version:</b>			
9.1			
<b>Parameters:</b>			
Key	Type	Descriptions	
SysUser	String	Username of an AhsayCBS System User with Admin or API role	
SysPwd	String	Password matching SysUser	
RemoveLoginName	String	Login name of the system user to remove	
<b>Return Values:</b>			
Key	Type	Descriptions	
Status	String	"OK" or "Error"	
Message	String	Error message, it exists only if status is "Error"	
ExptType	String	The type of exception, it exists only if status is "Error"	

<b>Example:</b>	
<b>Input</b>	<pre>{   "SysUser": "admin",   "SysPwd": "password",   "RemoveLoginName": "dummyAdmin" }</pre>
<b>Output</b>	<pre>{"Status": "OK"}</pre>

<b>Example:</b>	
<b>Input 2 - If the system user does not exist</b>	<pre>{   "SysUser": "admin",   "SysPwd": "password",   "RemoveLoginName": "nosuchuser" }</pre>
<b>Output</b>	<pre>{   "Status": "Error",   "Message": "System user 'nosuchuser' does not exist",   "ExptType": "org.json.JSONException" }</pre>

### 3.3.4 AuthSystemUser

This API can be used to check whether the SysUser has admin right or not.

If the user type of the SysUser is Read-only Admin or API, an error status will be returned.

This setting can be found on the AhsayCBS web console at:

🔗 [\[System Settings\] > \[Basic\] > \[Administrative Access\]](#)

<b>URL:</b>		
<a href="https://CBS.EXAMPLE.COM/obs/api/json/AuthSystemUser.do">https://CBS.EXAMPLE.COM/obs/api/json/AuthSystemUser.do</a>		
<b>Available since version:</b>		
9.1		
<b>Parameters:</b>		
Key	Type	Descriptions
SysUser	String	Username of an AhsayCBS System User with Admin or API role
SysPwd	String	Password matching SysUser
<b>Return Values:</b>		
Key	Type	Descriptions
Status	String	"OK" or "Error"
Message	String	Error message, it exists only if status is "Error"
ExptType	String	The type of exception, it exists only if status is "Error"

#### Example:

##### Input - For SysUser with Admin role

```
{
  "SysUser": "Admin",
  "SysPwd": "password"
}
```

##### Output

```
{"Status": "OK"}
```

#### Example:

##### Input - For SysUser with Read-only Admin role

```
{
  "SysUser": "Read-OnlyAdmin",
  "SysPwd": "password"
}
```


##### Output

```
{
  "Status": "Error",
  "Message": "Incorrect system username/password",
  "ExptType": "com.ahsay.obs.core.dbs.c"
}
```

### 3.3.5 ListSystemUsers

This API lists the information of all system users.

The related settings can be found on the AhsayCBS web console:

 [System Settings] > [Basic] > [Administrative Access]

<b>URL:</b>		
<a href="https://CBS.EXAMPLE.COM/obs/api/json/ListSystemUsers.do">https://CBS.EXAMPLE.COM/obs/api/json/ListSystemUsers.do</a>		
<b>Available since version:</b>		
9.1		
<b>Parameters:</b>		
Key	Type	Descriptions
SysUser	String	Username of an AhsayCBS System User with Admin or API role
SysPwd	String	Password matching SysUser
RoleOnly	Boolean	List the role of system users only (SystemUserRole)
Host	String	AhsayCBS's URL. It is required for calling API from Redirector only
<b>Return Values:</b>		
Key	Type	Descriptions
Status	String	"OK" or "Error"
Data	Array of SystemUserRole or Array of SystemUser	If RoleOnly is true, an array of SystemUserRole is returned. Otherwise, an array of SystemUser is returned.
Message	String	Error message, it exists only if status is "Error"
ExptType	String	The type of exception, it exists only if status is "Error"
<b>JSON Objects:</b>		
<b>SystemUserRole</b>		
Key	Type	Descriptions
Name	String	
Role	String	The value can be any one of the following: ADMIN READ_ONLY_ADMIN RESELLER API_ONLY
<b>SystemUser</b>		
Key	Type	Descriptions
Name	String	
Role	String	The value can be any one of the following: ADMIN READ_ONLY_ADMIN API_ONLY
Status	String	"SUSPENDED" or "ENABLED"
HashedPwd	String	
IsShowRebrandingPages	Boolean	True = Show Branding UI
IsSendConsolidatedReport	Boolean	True = Send Consolidated Reports
IsFreeTrialOfferAllowed	Boolean	True = Free Trial options is allowed False = Free Trial option hidden, users cannot be set to Trial user type

## Example:

### Input

```
{
  "SysUser": "Admin",
  "SysPwd": "password"
}
```

### Output

```
{
  "Status": "OK",
  "Data": [
    {
      "Name": "SysUser",
      "HashedPwd": "u8XmYeEGxtzY3G3RhkVML8ujxxD7TY5xpgyT6vB38HM=",
      "Role": "READ_ONLY_ADMIN",
      "Status": "ENABLED",
      "IsShowRebrandingPages": true,
      "IsFreeTrialOfferAllowed": true
    },
    {
      "Name": "dummySysUser",
      "HashedPwd": "taLJYlBh12bqJy/6xtl0Sq9LRarNlqp8/Lkx7jtVglk=",
      "Role": "ADMIN",
      "Status": "SUSPENDED",
      "IsSendConsolidatedReport": true,
      "IsShowRebrandingPages": true,
      "IsFreeTrialOfferAllowed": true
    },
    {
      "Name": "system",
      "HashedPwd": "u8XmYeEGxtzY3G3RhkVML8ujxxD7TY5xpgyT6vB38HM=",
      "Role": "ADMIN",
      "Status": "ENABLED",
      "IsSendConsolidatedReport": true,
      "IsShowRebrandingPages": false,
      "IsFreeTrialOfferAllowed": true
    },
    {
      "Role": "RESELLER",
      "Status": "ENABLED",
      "Owner": "",
      "HashedPwd": "bKE9UspwylPg8LsQHkjaiehiTeUdstl5JZOvaoQRgJA=",
      "IsSendConsolidatedReport": true,
      "IsShowRebrandingPages": true,
      "IsSendConsolidatedReport": true,
      "Name": "subadmin1",
      "IsFreeTrialOfferAllowed": true
    }
  ]
}
```

## 3.4 Group Policy

### 3.4.1 AddUserGroup

This API let you add a new User Group and allocate user to it.

The related settings can be found on the AhsayCBS web console:

 [Backup / Restore] > [User, Groups & Policies] > [User Group]

<b>URL:</b>		
	<a href="https://CBS.EXAMPLE.COM/obs/api/json/AddUserGroup.do">https://CBS.EXAMPLE.COM/obs/api/json/AddUserGroup.do</a>	
<b>Available since version:</b>		
	9.1	
<b>Parameters:</b>		
Key	Type	Descriptions
SysUser	String	Username of an AhsayCBS System User with Admin or API role
SysPwd	String	Password matching SysUser
UserGroupName	String	Group name
Type	String	The value can be any one of the following: backup-user (Default value)
UserIdList	String	Multiple login names, separated by commas, are accepted. For example: user1,user2,user3
PolicyIDList	Array of String	Array of policy ID
<b>Return Values:</b>		
Key	Type	Descriptions
Status	String	"OK" or "Error"
Message	String	Error message, it exists only if status is "Error"
ExptType	String	The type of exception, it exists only if status is "Error"
ID	String	
<b>JSON Objects:</b>		
<b>EditBillingContactBean</b>		
Key	Type	Descriptions
ContactId	String	
Name	String	
Email	String	
Address	String	
Company	String	
Website	String	
Phone1	String	
Phone2	String	
<b>Example:</b>		
<b>Input</b>		
	<pre>{   "SysUser":"api_user",   "SysPwd":"qWeRtY123456!@#%\$",   "UserGroupName":"user-group" }</pre>	
<b>Output</b>		
	<pre>{"Status":"OK","ID":"1447039919940"}</pre>	
<b>Output 2 User group already in use</b>		
	<pre>{   "Status": "Error",   "Message": "The user group name is already in use",   "ExptType": "java.lang.Exception" }</pre>	

**Example:**

**Input Add user group and assign policy**

```
{  
  "SysUser": "api_user",  
  "SysPwd": "qWeRtY123456!@#%$%",  
  "UserGroupName": "test-usergroup",  
  "PolicyIDList": ["1498011529749"]  
}
```

**Output**

```
{  
  "Status": "OK",  
  "ID": "1447039919940"  
}
```

### 3.4.2 DeletePolicyGroup

This API allows you to delete a policy group.

The related settings can be found on the AhsayCBS web console:

🔗 [Backup / Restore] > [User, Groups & Policies] > [Policy Group]

<b>URL:</b>		
<a href="https://CBS.EXAMPLE.COM/obs/api/json/DeletePolicyGroup.do">https://CBS.EXAMPLE.COM/obs/api/json/DeletePolicyGroup.do</a>		
<b>Available since version:</b>		
9.1		
<b>Parameters:</b>		
Key	Type	Descriptions
SysUser	String	Username of an AhsayCBS System User with Admin or API role
SysPwd	String	Password matching SysUser
ID	String	ID of the policy group
<b>Return Values:</b>		
Key	Type	Descriptions
Status	String	"OK" or "Error"
Message	String	Error message, it exists only if status is "Error"
ExptType	String	The type of exception, it exists only if status is "Error"
<b>Example:</b>		
<b>Input</b>		
<pre>{   "SysUser": "api_user",   "SysPwd": "abc123",   "ID": "1496989829495" }</pre>		
<b>Output</b>		
<pre>{"Status": "OK"}</pre>		



### 3.4.3 DeletePolicyGroupFromUserGroup

This API allows you to deallocate a assigned policy group within a user group

The related settings can be found on the AhsayCBS web console:

- [Backup / Restore] > [User, Groups & Policies] > [User Group] > Click a usergroup > [Assigned Policy]

<b>URL:</b>		
<a href="https://CBS.EXAMPLE.COM/obs/api/json/DeletePolicyGroupFromUserGroup.do">https://CBS.EXAMPLE.COM/obs/api/json/DeletePolicyGroupFromUserGroup.do</a>		
<b>Available since version:</b>		
9.1		
<b>Parameters:</b>		
Key	Type	Descriptions
SysUser	String	Username of an AhsayCBS System User with Admin or API role
SysPwd	String	Password matching SysUser
UserGroupID	String	ID of User Group
PolicyGroupID	String	ID of Policy Group
<b>Return Values:</b>		
Key	Type	Descriptions
Status	String	"OK" or "Error"
Message	String	Error message, it exists only if status is "Error"
ExptType	String	The type of exception, it exists only if status is "Error"
<b>Example:</b>		
<b>Input</b>		
<pre>{   "SysUser": "api",   "SysPwd": "pwd",   "UserGroupID": "1497233669967",   "PolicyGroupID": "1497233409042" }</pre>		
<b>Output</b>		
{"Status": "OK"}		
<b>Output 2 policy group not exist</b>		
<pre>{   "Status": "Error",   "Message": "Policy group does not exist",   "ExptType": "org.json.JSONException" }</pre>		

### 3.4.4 DeleteUserFromUserGroup

This API allows you to delete users in a user group.

The related settings can be found on the AhsayCBS web console:

[\[Backup / Restore\]](#) > [\[User, Groups & Policies\]](#) > [\[Backup User\]](#) > [Click a user](#)  
[\[User Profile\]](#) > [\[User Group\]](#)

<b>URL:</b>			
	<a href="https://CBS.EXAMPLE.COM/obs/api/json/DeleteUserFromUserGroup.do">https://CBS.EXAMPLE.COM/obs/api/json/DeleteUserFromUserGroup.do</a>		
<b>Available since version:</b>			
	9.1		
<b>Parameters:</b>			
Key	Type	Descriptions	
SysUser	String	Username of an AhsayCBS System User with Admin or API role	
SysPwd	String	Password matching SysUser	
ID	String	ID of User Group	
UserIdList	String	Multiple login names, separated by commas, are accepted. For example: user1,user2,user3	
<b>Return Values:</b>			
Key	Type	Descriptions	
Status	String	"OK" or "Error"	
Message	String	Error message, it exists only if status is "Error"	
ExptType	String	The type of exception, it exists only if status is "Error"	
<b>Example:</b>			
<b>Input</b>			
	<pre>{   "SysUser": "api",   "SysPwd": "pwd",   "ID": "1497233669967",   "UserList": "1497233409042, 1496977596356" }</pre>		
<b>Output</b>			
	{"Status": "OK"}		
<b>Output 2 User not exist</b>			
	<pre>{   "Status": "Error",   "Message": "[UserCacheManager.NoSuchUserExpt] User '1497233409042' not found.",   "ExptType": "com.ahsay.obs.core.dbs.Y" }</pre>		

### 3.4.5 DeleteUserGroup

This API allows you to delete a user group and all its information.

The related settings can be found on the AhsayCBS web console:

• [Backup / Restore] > [User, Groups & Policies] > [Backup User] > Click a user >  
[User Profile] > [User Group]

<b>URL:</b>			
<a href="https://CBS.EXAMPLE.COM/obs/api/json/DeleteUserGroup.do">https://CBS.EXAMPLE.COM/obs/api/json/DeleteUserGroup.do</a>			
<b>Available since version:</b>			
9.1			
<b>Parameters:</b>			
Key	Type	Descriptions	
SysUser	String	Username of an AhsayCBS System User with Admin or API role	
SysPwd	String	Password matching SysUser	
ID	String	ID of user group	
<b>Return Values:</b>			
Key	Type	Descriptions	
Status	String	"OK" or "Error"	
Message	String	Error message, it exists only if status is "Error"	
ExptType	String	The type of exception, it exists only if status is "Error"	
<b>Example:</b>			
<b>Input</b>			
<pre>{   "SysUser": "api_user",   "SysPwd": "abc123",   "ID": "1497232492006" }</pre>			
<b>Output</b>			
<pre>{"Status": "OK"}</pre>			
<b>Output 2 (user group not exist)</b>			
<pre>{   "Status": "Error",   "Message": "[Error] Parameter UserGroupID, 1497232492006 does not existed!",   "ExptType": "com.ahsay.obs.core.dbs.c" }</pre>			

### 3.4.6 ListPolicyGroups (v1,v2)

This API can be used to retrieve the group policy settings of a backup user.

The related settings can be found on the AhsayCBS web console:

• [Backup / Restore] > [User, Groups & Policies] > [Policy Group]

#### v1 ListPolicyGroups.do

<b>URL:</b>	
	<a href="https://CBS.EXAMPLE.COM/obs/api/json/ListPolicyGroups.do">https://CBS.EXAMPLE.COM/obs/api/json/ListPolicyGroups.do</a>
<b>Deprecated since version:</b>	
	7.15.6.38

#### v2 ListPolicyGroups.do

For features related to Quota Management, administrator needs to utilize v2 ListPolicyGroups.do.

<b>URL:</b>		
	<a href="https://CBS.EXAMPLE.COM/obs/api/json/2/ListPolicyGroups.do">https://CBS.EXAMPLE.COM/obs/api/json/2/ListPolicyGroups.do</a>	
<b>Available since version:</b>		
	9.5	
<b>Parameters:</b>		
Key	Type	Descriptions
SysUser	String	Username of an AhsayCBS System User with Admin, API, or RO API role
SysPwd	String	Password matching SysUser
LoginName	String	Username of the backup user
PolicyGroupNameOnly	Boolean	Optional parameter, can be true / false, default value is false.
<b>Return Values:</b>		
Key	Type	Descriptions
Status	String	"OK" or "Error"
Data	Array (data of NameInfo or PolicyGroup)	If parameter PolicyGroupNameOnly is true, only data under NameInfo is returned. Otherwise PolicyGroup is returned.
Message	String	Error message, it exists only if status is "Error"
ExptType	String	The type of exception, it exists only if status is "Error"

JSON Objects:			
<b>NameInfo</b>			
Key	Type	Descriptions	
PolicyGroupID	String		
PolicyGroupName	String		
<b>PolicyGroup</b>			
Key	Type	Descriptions	
PreemptedValues	Array		
Type	String	The value can be one of the following:  BACKUP_USER SYSTEM_USER	
Owner	String		
GuiSettings	Array		
PreemptedBackupSetSettings	Array		
BackupSetSettings	Array		
UserSettings	Array		
MobileSettings	Array		
DefaultValues	Array		
ID	String	ID of Policy Group	
Name	String	Name of Policy Group	

Other parameters under PolicyGroup are outlined below:			
<b>PreemptedValues</b>			
Key	Type	Descriptions	
VmwareSettingsList	Array		
VolumeShadowCopySettingsList	Array		
AllowedIPSettingsList	Array		
FollowLinkSettingsList	Array		
InFileDeltaSettingsList	Array		
CompressionsSettingsList	Array		
WinUserAuthSettingsList	Array		
FileSettingsList	Array	For use with v1 UpdatePolicyGroup.do only.	
GranularRestoreSettingsList	Array		
OpenDirectSettingsList	Array		
MswindowsSystemStateSettingsList	Array		
DestinationSettingsList	Array		
BandwidthControlSettingsList	Array		
NameSettingsList	Array		
MySQLSettingsList	Array		
FilePermissionsSettingsList	Array		
RetentionPolicySettingsList	Array		
ShadowProtectSettingsList	Array		
AdvancedSettingsList	Array		
CommandSettingsList	Array		
TemporaryDirectorySettingsList	Array		
OracleSettingsList	Array		
LotusNotesSettingsList	Array		
ReminderSettingsList	Array		
FilterSettingsList	Array		
MswindowsSystemSettingsList	Array		
LotusDominoSettingsList	Array		
ScheduleSettingsList	Array		
EncryptionSettingsList	Array		
ArchivedLogDeletionSettingsList	Array		
CdpSettingsList	Array		
SourceShortcutSettingsList	Array		
MariaDBSettingsList	Array		
DeduplicationSettingsList	Object	Refer to DeduplicationSettingsList, list of Deduplication Settings	

GranularRestoreSettingsList		
Key	Type	Descriptions
Enable	Boolean	
List	Array	
VmwareSettingsList		
Key	Type	Descriptions
Enable	Boolean	
List	Array	
VmwareSetting		
Key	Type	Descriptions
Host	String	
Port	String	
Username	String	
Password	String	
Sshport	String	Port for ssh
Id	String	
Version	String	
AutoEnableCBT	Boolean	
AppliedValueSettings	Array	

OpenDirectSettingsList		
Key	Type	Descriptions
Enable	Boolean	
List	Array	
AppliedValueSettings		
Key	Type	Descriptions
Id	String	
Type	String	For DefaultValues, this value is "default" For PreemptedValues, this value is "preempted"
Mode	String	For DefaultValues, this value is empty. For PreemptedValues, this value can be one of the following: prepend append override
Name	String	
Os	String	This value can be empty, one of the following: windows mac linux
AppliedModuleIDList	Array	The String can be any of the following values: FILE Cloud File Lotus Domino Lotus Notes MariaDB Microsoft Exchange Server Microsoft Exchange Mail (MAPI) Microsoft SQL Server Microsoft Windows Virtualization Microsoft Windows System Backup MySQL Oracle Database Server ShadowProtect Bare Metal System State VMware Virtualization Office 365 Exchange Online If a String above is added to the array, that module is selected.
Version	String	This value can be empty, or non-empty for specific modules.  For VMWare module, the value can be one of the following:  APPVERSION_ESX_V2 APPVERSION_ESXI_V2

		<p>APPVERSION_VMSERVER1  APPVERSION_VMSERVER2  APPVERSION_WORKSTATION  APPVERSION_WORKSTATION8  APPVERSION_PLAYER  APPVERSION_FUSION  APPVERSION_FUSION5  APPVERSION_VCENTER_V2</p> <p>For Microsoft Exchange and Exchange Mail module, the value can be one of the following:</p> <p>8 (For Microsoft Exchange Server 2007)  14 (For Microsoft Exchange Server 2010)  15 (For Microsoft Exchange Server 2013)  DAG13 (For Microsoft Exchange Server 2013 (Database Availability Group))</p> <p>For Microsoft Hyper-V module, the value can be one of the following:</p> <p>Microsoft Hyper-V Server  Microsoft Hyper-V Server R2  Microsoft Hyper-V Server R2 (Failover Cluster)  Microsoft Hyper-V Server 2012  Microsoft Hyper-V Server 2012 (Failover Cluster)  Microsoft Hyper-V Server 2012 R2  Microsoft Hyper-V Server 2012 R2 (Failover Cluster)</p>
<b>VolumeShadowCopySettingsList</b>		
<b>Key</b>	<b>Type</b>	<b>Descriptions</b>
Enable	Boolean	
List	Array	
<b>VolumeShadowCopySetting</b>		
<b>Key</b>	<b>Type</b>	<b>Descriptions</b>
Enable	Boolean	
Id	String	
AppliedValueSettings	Array	
<b>AllowedIPSettingsList</b>		
<b>Key</b>	<b>Type</b>	<b>Descriptions</b>
Enable	Boolean	
List	Array	
<b>AllowedIPSetting</b>		
<b>Key</b>	<b>Type</b>	<b>Descriptions</b>
Id	String	
AllowedIPList	Array	
AppliedValueSettings	Array	
<b>AllowedIP</b>		
<b>Key</b>	<b>Type</b>	<b>Descriptions</b>
Id	String	
StartIP	String	
EndIP	String	
<b>SourceShortcutSettingsList</b>		
<b>Key</b>	<b>Type</b>	<b>Descriptions</b>
Enable	Boolean	
List	Array	

FollowLinkSettingsList		
Key	Type	Descriptions
Enable	Boolean	
List	Array	
FollowLinkSetting		
Key	Type	Descriptions
Enable	Boolean	
Id	String	
AppliedValueSettings	Array	
InFileDeltaSettingsList		
Key	Type	Descriptions
Enable	Boolean	
List	Array	
InFileDeltaSetting		
Key	Type	Descriptions
Enable	Boolean	
Id	String	
WeeklyInFileDeltaSchedule	Array	
MonthlyInFileDeltaSchedule	Array	
MinDeltaFileSize	Long	
MaxNumOfDelta	Long	
MaxDeltaRatio	Long	
DeltaBlockSize	Long	
DefaultDeltaType	String	
AppliedValueSettings	Array	
WeeklyInFileDeltaSchedule		
Key	Type	Descriptions
Day	Array	The array contains 7 Strings, representing the delta type from Sunday to Saturday. The values of the Strings can be one of the following: F (For full backup) D (For differential delta) I (For incremental delta)
MonthlyInFileDeltaSchedule		
Key	Type	Descriptions
Date	Long	
Criteria	String	The value can be one of the following:  Weekday Weekend Sunday Monday Tuesday Wednesday Thursday Friday Saturday
Occurrence	String	The value can be one of the following:  First Second Third Fourth Last



Month	Array	The array contains 12 Strings, representing the delta type from January to December  The values of the Strings can be one of the following:  F (For full backup) D (For differential delta) I (For incremental delta)
<b>CompressionsSettingsList</b>		
<b>Key</b>	<b>Type</b>	<b>Descriptions</b>
Enable	Boolean	
List	Array	
OverwriteDefaultCompression	Boolean	If it is true, overwrite default compression type to "Optimal for Local" When the default compression type is <i>Fast</i> and 1. Destination of "Run on Server" backup set is AhsayCBS, <u>OR</u> 2. First destination of "Run on Client" backup set is 'local'. Only CompressionsSettingsList of DefaultValues has this param.
<b>CompressionsSetting</b>		
<b>Key</b>	<b>Type</b>	<b>Descriptions</b>
Id	String	
Type	String	The value can be empty, or one of the following:  "GzipDefaultCompression" (Normal) "GzipBestSpeedCompression" (Fast) "SnappyDefaultCompression" (Optimal for local)
AppliedValueSettings	Array	
<b>WinUserAuthSettingsList</b>		
<b>Key</b>	<b>Type</b>	<b>Descriptions</b>
Enable	Boolean	
List	Array	
<b>WinUserAuthSetting</b>		
<b>Key</b>	<b>Type</b>	<b>Descriptions</b>
Id	String	
Domain	String	
Password	String	
Username	String	
AppliedValueSettings	Array	
<b>SourceShortcutSettingsList</b>		
<b>Key</b>	<b>Type</b>	<b>Descriptions</b>
Version	String	
@class	String	com.ahsay.obx.cxp.cpf.policy.values.source.FileSettings com.ahsay.obx.cxp.cpf.policy.values.source.Office365SourceShortcutSettings
WindowsOutlook	Boolean	Backup source shortcut to Outlook  Applicable for File backup set only.
WindowsOutlookExpress	Boolean	Backup source shortcut to Outlook Express  Applicable for File backup set only.
WindowsDesktop	Boolean	Backup source shortcut to Desktop  Applicable for File backup set only.
WindowsFavourites	Boolean	Backup source shortcut to Favourites  Applicable for File backup set only.
WindowsMail	Boolean	Backup source shortcut to Windows Mail  Applicable for File backup set only.
WindowsMyDocuments	Boolean	Backup source shortcut to My Documents  Applicable for File backup set only.

WindowsLiveMail	Boolean	Backup source shortcut to Windows Live Mail  Applicable for File backup set only.
Destination	Array	Applicable for Microsoft 365 backup set only.
OneDrive	Boolean	Backup source shortcut to OneDrive  Applicable for Microsoft 365 backup set only.
PublicFolders	Boolean	Backup source shortcut to OneDrive  Applicable for Microsoft 365 backup set only.
SiteCollections	Boolean	Backup source shortcut to Microsoft 365 SharePoint Site Collections  Applicable for Microsoft 365 backup set only.
Outlook	Boolean	Backup source shortcut to Microsoft 365 Outlook  Applicable for Microsoft 365 backup set only.
RunOnServer	Boolean	Run on Server option  Applicable for Microsoft 365 backup set only.
PersonalSites	Boolean	Backup source shortcut to Microsoft 365 SharePoint Personal Sites  Applicable for Microsoft 365 backup set only.
AppliedValueSettings	Array	
<b>MswindowsSystemStateSettingsList</b>		
<b>Key</b>	<b>Type</b>	<b>Descriptions</b>
Enable	Boolean	
List	Array	
<b>MswindowsSystemStateSetting</b>		
<b>Key</b>	<b>Type</b>	<b>Descriptions</b>
Id	String	
Version	String	
BackupTarget	String	
AppliedValueSettings	Array	
<b>DestinationSettingsList</b>		
<b>Key</b>	<b>Type</b>	<b>Descriptions</b>
Enable	Boolean	
List	Array	
<b>DestinationSetting</b>		
<b>Key</b>	<b>Type</b>	<b>Descriptions</b>
Id	String	
SystemDestinationIDList	Array	
DestinationList	Array	
SystemDestinationList	Array	
AppliedValueSettings	Array	
<b>Destination</b>		
<b>Key</b>	<b>Type</b>	<b>Descriptions</b>
Id	String	
<b>BandwidthControlSettingsList</b>		
<b>Key</b>	<b>Type</b>	<b>Descriptions</b>
Enable	Boolean	
List	Array	

<b>BandwidthControlSetting</b>		
Key	Type	Descriptions
Enable	Boolean	
Id	String	
BandwidthControlList	Array	
Mode	String	The value can be one of the following:  independent share
AppliedValueSettings	Array	
<b>BandwithControl</b>		
Key	Type	Descriptions
Name	String	
Id	String	
StartDay	Long	
StartHour	Long	
StartMinute	Long	
EndDay	Long	
EndHour	Long	
EndMinute	Long	
MaxTransferRateInBitsPerSec	Long	
<b>NameSettingsList</b>		
Key	Type	Descriptions
Enable	Boolean	
List	Array	
<b>NameSetting</b>		
Key	Type	Descriptions
Id	String	
Name	String	
AppliedValueSettings	Array	
<b>MySQLSettingsList</b>		
Key	Type	Descriptions
Enable	Boolean	
List	Array	
<b>MySQLSetting</b>		
Key	Type	Descriptions
Id	String	
Host	String	
Port	String	
Username	String	
Password	String	
MysqldumpPath	String	
Version	String	
AppliedValueSettings	Array	
<b>FilePermissionsSettingsList</b>		
Key	Type	Descriptions
Enable	Boolean	
List	Array	
<b>FilePermissionsSetting</b>		
Key	Type	Descriptions
Enable	Boolean	
Id	String	
AppliedValueSettings	Array	

RetentionPolicySettingsList		
Key	Type	Descriptions
Enable	Boolean	
List	Array	
RetentionPolicySetting		
Key	Type	Descriptions
Id	String	
Period	Long	
OverlapSensitive	Boolean	
AdvancedRetentionPolicyList	Array	
Type	String	The value can be one of the following:  SIMPLE ADVANCED
Unit	String	The value can be one of the following:  DAYS JOBS
AppliedValueSettings	Array	
AdvancedRetentionPolicy		
Key	Type	Descriptions
Name	String	
ReadOnly	Boolean	
Id	Long	
Type	String	The value can be one of the following:  DAILY WEEKLY MONTHLY QUARTERLY YEARLY CUSTOM
NumbersToKeep	Integer	
Day	Integer	
Week	Integer	
Month	Integer	
Year	Integer	
DateType	String	It can be empty for daily or weekly retention policy, or one of the following:  WEEK_OF_MONTH WEEK_OF_YEAR EXACT
Sun, Mon, Tue, Wed, Thu, Fri, Sat	Boolean	For weekly custom retention policy
ShadowProtectSettingsList		
Key	Type	Descriptions
Enable	Boolean	
List	Array	
ShadowProtectSetting		
Key	Type	Descriptions
Id	String	
EncryptionAlgorithm	Long	
EncryptionPassword	String	
Version	String	
InstallLocation	String	
AppliedValueSettings	Array	

AdvancedSettingsList		
Key	Type	Descriptions
Enable	Boolean	
List	Array	
AdvancedSetting		
Key	Type	Descriptions
Id	String	
DeselectedSourceList	Array	
SelectedSourceList	Array	
Enable	Boolean	
AppliedValueSettings	Array	
CommandSettingsList		
Key	Type	Descriptions
Enable	Boolean	
List	Array	
CommandSetting		
Key	Type	Descriptions
Id	String	
PreCommandList	Array	
PostCommandList	Array	
AppliedValueSettings	Array	
Command		
Key	Type	Descriptions
Id	String	
Name	String	
Type	String	The value can be one of the following: pre (for Pre-command) post (for Post-command)
Command	String	
WorkingDir	String	
TemporaryDirectorySettingsList		
Key	Type	Descriptions
Enable	Boolean	
List	Array	
OracleSettingsList		
Key	Type	Descriptions
Enable	Boolean	
List	Array	
OracleSetting		
Key	Type	Descriptions
Id	String	
Host	String	
Port	String	
LoginID	String	
Password	String	
Sid	String	
Version	String	
AppliedValueSettings	Array	

LotusNotesSettingsList		
Key	Type	Descriptions
Enable	Boolean	
List	Array	
LotusNotesSetting		
Key	Type	Descriptions
Id	String	
NotesIniPath	String	
Version	String	
AppliedValueSettings	Array	
ReminderSettingsList		
Key	Type	Descriptions
Enable	Boolean	On-Off
List	Array of ReminderSettings	List of ReminderSettings
ReminderSetting		
Key	Type	Descriptions
OfflineNotificationDay	Long	This setting only applicable for v6 legacy backup users.
BackupIntervalHour	Long	00-23
OfflineBackupEnabled	Boolean	On-Off
OfflineBackupReminderComputerName	String	The computer name for the offline backup reminder
BackupIntervalDay	Long	00-31
ShowOfflineBackupReminder	Boolean	
LogoutBackupReminderEnabled	Boolean	On-Off
LogoutBackupReminderComputerName	String	The computer name for logout backup reminder
Id	String	
AppliedValueSettings	Array	
FilterSettingsList		
Key	Type	Descriptions
Enable	Boolean	
List	Array	
FilterSetting		
Key	Type	Descriptions
Enable	Boolean	
Id	String	
FilterList	Array	
AppliedValueSettings	Array	
Filter		
Key	Type	Descriptions
Name	String	
PatternList	Array	
ApplyToDir	Boolean	
ApplyToFile	Boolean	
TopDir	String	

Type	String	The value can be one of the following:  START_WITH END_WITH CONTAIN CUSTOM
MatchPatternAgainstFullPathOnly	Boolean	
Include	Boolean	
Only	Boolean	
<b>Pattern</b>		
<b>Key</b>	<b>Type</b>	<b>Descriptions</b>
Pattern	String	
<b>MswindowsSystemSettingsList</b>		
<b>Key</b>	<b>Type</b>	<b>Descriptions</b>
Enable	Boolean	
List	Array	
<b>MswindowsSystemSetting</b>		
<b>Key</b>	<b>Type</b>	<b>Descriptions</b>
Id	String	
Version	String	
BackupTarget	String	
AppliedValueSettings	Array	
<b>LotusDominoSettingsList</b>		
<b>Key</b>	<b>Type</b>	<b>Descriptions</b>
Enable	Boolean	
List	Array	
<b>LotusDominoSetting</b>		
<b>Key</b>	<b>Type</b>	<b>Descriptions</b>
Id	String	
Version	String	
NotesIniPath	String	
AppliedValueSettings	Array	
<b>ScheduleSettingsList</b>		
<b>Key</b>	<b>Type</b>	<b>Descriptions</b>
Enable	Boolean	
List	Array	
<b>ScheduleSetting</b>		
<b>Key</b>	<b>Type</b>	<b>Descriptions</b>
Id	String	
Enable	Boolean	
ComputerName	String	
DailyScheduleList	Array	
WeeklyScheduleList	Array	
MonthlyScheduleList	Array	
CustomScheduleList	Array	
AppliedValueSettings	Array	

DailyScheduleList		
Key	Type	Descriptions
ReadOnly	Boolean	
Name	String	
Id	Long	
Hour	Integer	
Minute	Integer	
Duration	Integer	(optional) If no value is specified default value = -1  The value can be one of the following:  until full backup completed = -1 stop backup after xx hours = 1 to 24
BackupType	String	The value can be empty, or one of the following:  DATABASE DIFFERENTIAL LOG SKIP POWEROFF  For Oracle and Lotus Domino backup sets, the value must be DATABASE or LOG  For MS SQL Server backup sets, the value must be DATABASE or DIFFERENTIAL  For MS Exchange Server before 2007 and Shadow Protect backup sets, the value must be DATABASE, DIFFERENTIAL, or LOG  For MS Exchange Server 2007 or above, the value must be DATABASE or LOG  For VMware backup sets, if version is VMware Server 1 or VMware Player, the value must be SKIP or POWEROFF
SpaceFreeUpEnabled	Boolean	Remove obsolete files according to retention policy from backup destination according to retention policy
LastUpdateTime	Long	
@class	String	com.ahsay.obx.cxp.obs.DailySchedule
BackupInterval	Integer	Support periodic schedule backup for all backup set types  The value can be -1 or one of the following: 1, 2, 3, 4, 5, 6, 10, 12, 15, 20, 30, 60, 120, 180, 240, 360, 480, 720 (-1 means periodic schedule is disabled that it is a normal schedule.)
WeeklyScheduleList		
Key	Type	Descriptions
ReadOnly	Boolean	
Name	String	
Id	Long	
Hour	Integer	
Minute	Integer	
Duration	Integer	(optional) If no value is specified default value = -1  The value can be one of the following:  until full backup completed = -1 stop backup after xx hours = 1 to 24
BackupType	String	Refer to "BackupType" of DailySchedule
Days	Array	The array contains 7 boolean values that correspond to Sunday to Saturday. If the boolean value is true, backup will be run on that day.
SpaceFreeUpEnabled	Boolean	Remove obsolete files according to retention policy from backup destination according to retention policy
LastUpdateTime	Long	
@class	String	com.ahsay.obx.cxp.obs.WeeklySchedule



BackupInterval	Integer	Support periodic schedule backup for all backup set types  The value can be -1 or one of the following: 1, 2, 3, 4, 5, 6, 10, 12, 15, 20, 30, 60, 120, 180, 240, 360, 480, 720 (-1 means periodic schedule is disabled that it is a normal schedule.)
<b>MonthlyScheduleList</b>		
<b>Key</b>	<b>Type</b>	<b>Descriptions</b>
ReadOnly	Boolean	
Name	String	
Id	Long	
Hour	Integer	
Minute	Integer	
BackupType	String	Refer to "BackupType" of DailySchedule
Duration	Integer	
Occurrence	String	The value can be one of the following:  First Second Third Fourth Last
Criteria	String	The value can be one of the following:  Sunday Monday Tuesday Wednesday Thursday Friday Saturday Weekday Weekend
SpaceFreeUpEnabled	Boolean	Remove obsolete files according to retention policy from backup destination according to retention policy
LastUpdateTime	Long	
@class	String	com.ahsay.obx.cxp.obs.MonthlySchedule
<b>CustomScheduleList</b>		
<b>Key</b>	<b>Type</b>	<b>Descriptions</b>
ReadOnly	Boolean	
Name	String	
Id	Long	
Hour	Integer	
Minute	Integer	
Duration	Integer	(optional) If no value is specified default value = -1  The value can be one of the following:  until full backup completed = -1 stop backup after xx hours = 1 to 24
Date	String	In yyyy-MM-dd format
BackupType	String	Refer to "BackupType" of DailySchedule
SpaceFreeUpEnabled	Boolean	Remove obsolete files according to retention policy from backup destination according to retention policy
LastUpdateTime	Long	
@class	String	com.ahsay.obx.cxp.obs.CustomSchedule
<b>EncryptionSettingsList</b>		
<b>Key</b>	<b>Type</b>	<b>Descriptions</b>
Enable	Boolean	
List	Array	

EncryptionSetting		
Key	Type	Descriptions
KeyLength	Long	
Key	String	
Type	String	
Algorithm	String	
Mode	String	
Id	String	
AppliedValueSettings	Array	
ArchivedLogDeletionSettingsList		
Key	Type	Descriptions
Enable	Boolean	
List	Array	
ArchivedLogDeletionSetting		
Key	Type	Descriptions
Id	String	
Enable	Boolean	
Days	Long	
AppliedValueSettings	Array	
CdpSettingsList		
Key	Type	Descriptions
Enable	Boolean	
List	Array	
CdpSetting		
Key	Type	Descriptions
Enable	Boolean	
Id	String	
Type	String	<p>For version 6, the value can be one of the following:</p> <p>all-volume backup-source custom-source</p> <p>For version 8+, the value is all-volume</p>
BackupType	String	<p>The value can be empty, or one of the following:</p> <p>DATABASE DIFFERENTIAL LOG SKIP POWEROFF</p> <p>For Oracle and Lotus Domino backup sets, the value must be DATABASE or LOG</p> <p>For MS SQL Server backup sets, the value must be DATABASE or DIFFERENTIAL</p> <p>For MS Exchange Server before 2007 and Shadow Protect backup sets, the value must be DATABASE, DIFFERENTIAL, or LOG</p> <p>For MS Exchange Server 2007 or above, the value must be DATABASE or LOG</p> <p>For VMware backup sets, if version is VMware Server 1 or VMware Player, the value must be SKIP or POWEROFF</p>
MinUpdateInterval	Long	
TimeMarkInterval	Long	

MaxFileSize	Long	
ComputerName	String	
ExcludeSystemFiles	Boolean	Do not backup system files.
FilterList	Array	
CdpBackupControlSettings	Array	
Version	String	The value can be one of the following: 6 7 8
SelectedSourceList	Array	
AppliedValueSettings	AppliedValueSettings	
<b>CdpBackupControl</b>		
<b>Key</b>	<b>Type</b>	<b>Descriptions</b>
ConsiderCpuUsage	Boolean	This setting only applicable for v6 legacy backup users.
CpuUsage	Integer	This setting only applicable for v6 legacy backup users.
ConsiderInput	Boolean	This setting only applicable for v6 legacy backup users.
ObserveInputForSecond	Integer	This setting only applicable for v6 legacy backup users.
ConsiderNetworkTraffic	Boolean	This setting only applicable for v6 legacy backup users.
NetworkTraffic	Long	This setting only applicable for v6 legacy backup users.
<b>UserSettings</b>		
<b>Key</b>	<b>Type</b>	<b>Descriptions</b>
MaximumBackupSetsSettings	Array	
HostLimitSettings	Array	
RunDirectLimitSettings	Array	
AdvertisementSettings	Array	
BackupDestinationSettings	Array	Note: For v2 ListPolicyGroups.do, the EnableQuota and Quota parameters have been removed from this JSON object.  They will be displayed under the UserQuotaSettings JSON object.
LogonSettings	Array	
EncryptionKeySettings	Array	
EmailReportSettings	Array	
UserQuotaSettings	Array	
QuotaSettings	Array	
CloudBackupSourceSettings	Array	
PasswordSettings	Array	
SharedQuotaSettings	Array	
<b>MaximumBackupSetsSettings</b>		
<b>Key</b>	<b>Type</b>	<b>Descriptions</b>
Enable	Boolean	
MaximumBackupSetsPerUser	Long	
<b>HostLimitSettings</b>		
<b>Key</b>	<b>Type</b>	<b>Descriptions</b>
Enable	Boolean	
MaxHost	Long	
<b>RunDirectLimitSettings</b>		
<b>Key</b>	<b>Type</b>	<b>Descriptions</b>
Enable	Boolean	
MaxVm	Long	
<b>AdvertisementSettings</b>		
<b>Key</b>	<b>Type</b>	<b>Descriptions</b>
AdvertisementList	Array	
Enable	Boolean	

BackupDestinationSettings		
Key	Type	Descriptions
ApplicationName	String	
CustomDestinationList	Array	
SystemDestIDList	Array	
SystemDestinationList	Array	
CustomDestinationList (BackupDestinationSettings)		
Key	Type	Descriptions
Name	String	Name of the destination.
@class	String	The value can be one of the following:  com.ahsay.obx.cxp.cpf.policy.userSettings.LocalDestination com.ahsay.obx.cxp.cpf.policy.userSettings.AmazonS3Destination com.ahsay.obx.cxp.cpf.policy.userSettings.AWSCompatibleDestination com.ahsay.obx.cxp.cpf.policy.userSettings.GoogleCloudStorageDestination com.ahsay.obx.cxp.cpf.policy.userSettings.GoogleDriveDestination com.ahsay.obx.cxp.cpf.policy.userSettings.PooledDestination com.ahsay.obx.cxp.cpf.policy.userSettings.WindowsAzureDestination com.ahsay.obx.cxp.cpf.policy.userSettings.OneDriveDestination com.ahsay.obx.cxp.cpf.policy.userSettings.OneDrive4BizDestination com.ahsay.obx.cxp.cpf.policy.userSettings.RackspaceDestination com.ahsay.obx.cxp.cpf.policy.userSettings.OpenStackDestination com.ahsay.obx.cxp.cpf.policy.userSettings.DropboxDestination com.ahsay.obx.cxp.cpf.policy.userSettings.FtpDestination com.ahsay.obx.cxp.cpf.policy.userSettings.SftpDestination com.ahsay.obx.cxp.cpf.policy.userSettings.ObsDestination com.ahsay.obx.cxp.cpf.policy.userSettings.AliyunDestination com.ahsay.obx.cxp.cpf.policy.userSettings.BackblazeDestination com.ahsay.obx.cxp.cpf.policy.userSettings.WasabiDestination
Enable	Boolean	true / false
ApplicationSecret	String	For Dropbox only.
ClientID	String	For Google Drive destination, OneDrive, OneDrive for Business (Global and Germany region) only.
ChinaClientID		For OneDrive for Business (China region) only.
ClientSecret	String	For Google Drive destination, OneDrive only.
RedirectURI	String	For OneDrive, OneDrive for Business (Global and Germany region) only.
ChinaRedirectURI	String	For OneDrive for Business (China region) only.
LogonSettings		
Key	Type	Descriptions
Enable	Boolean	
InvalidLoginAttemptPeriod	Long	
BlockMinute	Long	
BlockHour	Long	
NumOfInvalidLogin	Long	
BlockType	String	The value can be on of the following: MINUTE HOUR FOREVER
EncryptionKeySettings		
Key	Type	Descriptions
Enabled	Boolean	
Upload	Boolean	
EmailReportSettings		
Key	Type	Descriptions
Enable	Boolean	
ConsolidatedReportSendMin	Long	
ConsolidatedReportSendHour	Long	
SendIndividualReport	Boolean	
SendConsolidatedReport	Boolean	
ContactList	Array	

<b>UserQuotaSettings</b>		
Key	Type	Descriptions
Enable	Boolean	
QuotaList	Array	
QuotaType	String	Quota Type, either TOTAL_QUOTA or PER_DESTINATION_QUOTA
StorageQuota	Long	Total Quota in GB
DefaultMode	Boolean	

<b>QuotaList (UserQuotaSettings)</b>		
Key	Type	Descriptions
Enabled	Boolean	
Quota	Long	Unit in byte.
DestinationName	String	Name of the backup destination.
DestinationKey	String	ID of the backup destination.

<b>QuotaSettings</b>		
Key	Type	Descriptions
Enable	Boolean	
Compress	Boolean	

<b>CloudBackupSourceSettings</b>		
Key	Type	Descriptions
Enable	Boolean	true / false
CloudSourceList	Array	

<b>CloudSourceList (CloudBackupSourceSettings)</b>		
Key	Type	Descriptions
Name	String	Name of the destination.
@class	String	The value can be one of the following:  com.ahsay.obx.cxp.cpf.policy.userSettings.LocalDestination com.ahsay.obx.cxp.cpf.policy.userSettings.AmazonS3Destination com.ahsay.obx.cxp.cpf.policy.userSettings.AWSCompatibleDestination com.ahsay.obx.cxp.cpf.policy.userSettings.GoogleCloudStorageDestination com.ahsay.obx.cxp.cpf.policy.userSettings.GoogleDriveDestination com.ahsay.obx.cxp.cpf.policy.userSettings.PooledDestination com.ahsay.obx.cxp.cpf.policy.userSettings.WindowsAzureDestination com.ahsay.obx.cxp.cpf.policy.userSettings.OneDriveDestination com.ahsay.obx.cxp.cpf.policy.userSettings.OneDrive4BizDestination com.ahsay.obx.cxp.cpf.policy.userSettings.RackspaceDestination com.ahsay.obx.cxp.cpf.policy.userSettings.OpenStackDestination com.ahsay.obx.cxp.cpf.policy.userSettings.DropboxDestination com.ahsay.obx.cxp.cpf.policy.userSettings.FtpDestination com.ahsay.obx.cxp.cpf.policy.userSettings.SftpDestination com.ahsay.obx.cxp.cpf.policy.userSettings.ObsDestination com.ahsay.obx.cxp.cpf.policy.userSettings.AliyunDestination com.ahsay.obx.cxp.cpf.policy.userSettings.BackblazeDestination com.ahsay.obx.cxp.cpf.policy.userSettings.WasabiDestination
ApplicationSecret	String	For Dropbox only.
ClientID	String	For Google Drive destination, OneDrive, OneDrive for Business (Global and Germany region) only.
ChinaClientID		For OneDrive for Business (China region) only.
ClientSecret	String	For Google Drive destination, OneDrive only.
RedirectURI	String	For OneDrive, OneDrive for Business (Global and Germany region) only.
ChinaRedirectURI	String	For OneDrive for Business (China region) only.

PasswordSettings		
Key	Type	Descriptions
Enable	Boolean	
Type	String	The value can be on of the following: DEFAULT CUSTOM
Number	Boolean	
Lowercase	Boolean	
MinimumLength	Long	
EnforcePasswordHistory	Boolean	
SpecialCharacters	Boolean	
Uppercase	Boolean	
PasswordAge	Long	
MinimumLengthEnabled	Boolean	
Regex	String	

SharedQuotaSettings		
Key	Type	Descriptions
Enabled	Boolean	
QuotaList	Array	
<b>QuotaList (SharedQuotaSettings)</b>		
Key	Type	Descriptions
Enabled	Boolean	
MaxPercentage	Long	
Quota	Long	Unit in byte.
DestinationName	String	Name of the backup destination.
DestinationKey	String	ID of the backup destination.
<b>GuiSettings</b>		
Key	Type	Descriptions
PrivilegeList	Array	
<b>Privilege</b>		
Key	Type	Descriptions
Id	String	
EnableRead	Boolean	
EnableWrite	Boolean	If write privilege is not available for the privilege, this key is removed from the result
PrivilegeGroup	String	
PolicyName	String	
DisplayName	String	The name of privilege defined in properties
<b>PreemptedBackupSetSettings</b>		
Key	Type	Descriptions
PreemptedBackupSetList	Array	Refer to BackupSet JSON Object in ListBackupSets API
<b>BackupSetSettings</b>		
Key	Type	Descriptions
ExcludeFileSettings	Array	

ExcludeFileSettings		
Key	Type	Descriptions
Enable	Boolean	
LastModifiedPeriodType	String	The value can be one of the following: YEAR
LastModifiedType	String	The value can be one of the following: PERIOD
LastModifiedDate	Long	
ExcludeFileSize	Boolean	
ExcludeMappedDrive	Boolean	
ExcludeLastModified	Boolean	
FileSize	Long	
LastModifiedPeriod	Long	
BackupSetTypeSettings		
Key	Type	Descriptions
BackupSetTypeList	Array	Newly added to v8.5 [[ "@class": "com.ahsay.obx.cxp.cpf.policy.backupSetSettings.MariaDBType" "Name": "MariaDB" ]]
Enable	Boolean	true/false
DefaultValues		
Key	Type	Descriptions
VmwareSettingsList	Array	
VolumeShadowCopySettingsList	Array	
AllowedIPSettingsList	Array	
FollowLinkSettingsList	Array	
InFileDeltaSettingsList	Array	
CompressionsSettingsList	Array	
WinUserAuthSettingsList	Array	
FileSettingsList	Array	For use with v1 UpdatePolicyGroup.do only.
GranularRestoreSettingsList	Array	
OpenDirectSettingsList	Array	
MswindowsSystemStateSettingsList	Array	
DestinationSettingsList	Array	
BandwidthControlSettingsList	Array	
NameSettingsList	Array	
MySQLSettingsList	Array	
FilePermissionsSettingsList	Array	
RetentionPolicySettingsList	Array	
ShadowProtectSettingsList	Array	
AdvancedSettingsList	Array	
CommandSettingsList	Array	
TemporaryDirectorySettingsList	Array	
OracleSettingsList	Array	
LotusNotesSettingsList	Array	
ReminderSettingsList	Array	
FilterSettingsList	Array	
MswindowsSystemSettingsList	Array	
LotusDominoSettingsList	Array	
ScheduleSettingsList	Array	
EncryptionSettingsList	Array	
ArchivedLogDeletionSettingsList	Array	
CdpSettingsList	Array	
SourceShortcutSettingsList	Array	
MariaDBSettingsList	Array	
DeduplicationSettingsList	Object	Refer to DeduplicationSettingsList, list of Deduplication Settings

JSON Objects:		
DeduplicationSettingsList		
Key	Type	Descriptions
Enable	Boolean	Enable or disable the list of Deduplication Settings
List	Array	Array of DeduplicationSettings (Policy)

Array:		
DeduplicationSettings (Policy)		
Key	Type	Descriptions
Enabled	Boolean	Whether Deduplication is enabled
@class	String	com.ahsay.obx.cxp.cpf.policy.values.deduplication.DeduplicationSettings
Scope	String	Either SAME_FILE or ALL_FILES, other value will result in error
BlockSize	Integer	<ul style="list-style-type: none"> <li>65536 , for 64k-256k</li> <li>131072 , for 128k-512k</li> <li>262144 , for 256k-1M</li> <li>524288 , for 512k-2M</li> <li>1048576 , for 1M - 4 M</li> </ul> <i>Removed in v9.5: -1 (was for "Auto" default choice in earlier v9)</i>
SettingsMigrated	Boolean	Whether the settings will be migrated from In-File Delta settings in next profile update
MigrateData	Boolean	Whether to migrate data for pre-v9 In-File Delta to v9 Deduplication when backup
AppliedValueSettings	Object	<i>AppliedValueSettings</i> object, apply the settings to which module(s)

JSON Objects:		
LoginWebConsoleSettings		
Key	Type	Descriptions
Enable	Boolean	True = Policy applies
AllowWebConsoleLogin	Boolean	True = Allow Backup User to login into CBS Web Console

Return Values:		
Key	Type	Descriptions
Status	String	"OK" or "Error"
Message	String	Error message, it exists only if status is "Error"
ExptType	String	The type of exception, it exists only if status is "Error"

Example:	
Input	
<pre>{   "SysUser": "api",   "SysPwd": "pwd",   "LoginName": "username",   "PolicyGroupNameOnly": true }</pre>	
Output	
<pre>{   "Status": "OK",   "Data": [     {       "PolicyGroupName": "Default settings",       "PolicyGroupID": "2"     }   ] }</pre>	



## Snippet Example (Deduplication):

### Input

```
{
  "SysUser": "api",
  "SysPwd": "pwd",
  "LoginName": "username",
}
```

### Output

```
{
  ...
  "DeduplicationSettingsList": {
    "Enable": false,
    "List": [
      {
        "@class": "com.ahsay.obx.cxp.cpf.policy.values.deduplication.DeduplicationSettings",
        "AppliedValueSettings": {
          "Type": "preempted",
          "@class": "com.ahsay.obx.cxp.cpf.policy.values.AppliedValueSettings",
          "Os": "",
          "Version": "",
          "Mode": "override",
          "BackupMode": "",
          "AppliedModuleSettingsList": [
            {
              "Enable": false,
              "Name": "FILE"
            },
            {
              "Enable": false,
              "Name": "Lotus Domino"
            },
            {
              "Enable": false,
              "Name": "Lotus Notes"
            },
            {
              "Enable": false,
              "Name": "Microsoft Exchange Server"
            },
            {
              "Enable": false,
              "Name": "Microsoft Exchange Mail (MAPI)"
            },
            {
              "Enable": false,
              "Name": "Microsoft SQL Server"
            },
            {
              "Enable": false,
              "Name": "Microsoft Windows Virtualization"
            },
            {
              "Enable": false,
              "Name": "Microsoft Windows System Backup"
            },
            {
              "Enable": true,
              "Name": "MySQL"
            },
            {
              "Enable": false,
              "Name": "MariaDB"
            },
            {
              "Enable": false,
              "Name": "Oracle Database Server"
            },
            {

```

```

        "Enable": false,
        "Name": "ShadowProtect Bare Metal"
    },
    {
        "Enable": false,
        "Name": "System State"
    },
    {
        "Enable": false,
        "Name": "VMware Virtualization"
    },
    {
        "Enable": false,
        "Name": "Cloud File"
    },
    {
        "Enable": false,
        "Name": "Office 365 Exchange Online"
    }
],
"Id": "1634183989730",
"Name": "SQL"
},
"Scope": "ALL_FILES",
"MigrateData": false,
"Enabled": true,
"SettingsMigrated": true,
"BlockSize": 262144,
}
]
},
"DestinationSettingsList": {
    "Enable": false,
    "List": []
},
"InFileDeltaSettingsList": {
    "Enable": false,
    "List": [
        {
            "MaxDeltaRatio": -1,
            "MinDeltaFileSize": 134217728,
            "MonthlyInFileDeltaSchedule": {
                "Month": [
                    "",
                    "",
                    "",
                    "",
                    "I",
                    "",
                    "",
                    "",
                    "",
                    "D",
                    "",
                    "",
                    "",
                    ""
                ],
                "Criteria": "Friday",
                "Occurrence": "First",
                "Date": 28
            },
            "@class": "com.ahsay.obx.cxp.cpf.policy.values.inFileDelta.InFileDeltaSettings",
            "MaxNumOfDelta": 128,
            "AppliedValueSettings": {
                "Type": "preempted",
                "@class": "com.ahsay.obx.cxp.cpf.policy.values.AppliedValueSettings",
                "Os": "",
                "Version": "",
                "Mode": "override",
                "BackupMode": "",
                "AppliedModuleSettingsList": [
                    {

```

```

        "Enable": false,
        "Name": "FILE"
    },
    {
        "Enable": false,
        "Name": "Lotus Domino"
    },
    {
        "Enable": false,
        "Name": "Lotus Notes"
    },
    {
        "Enable": false,
        "Name": "Microsoft Exchange Server"
    },
    {
        "Enable": false,
        "Name": "Microsoft Exchange Mail (MAPI)"
    },
    {
        "Enable": false,
        "Name": "Microsoft SQL Server"
    },
    {
        "Enable": false,
        "Name": "Microsoft Windows Virtualization"
    },
    {
        "Enable": false,
        "Name": "Microsoft Windows System Backup"
    },
    {
        "Enable": true,
        "Name": "MySQL"
    },
    {
        "Enable": false,
        "Name": "MariaDB"
    },
    {
        "Enable": false,
        "Name": "Oracle Database Server"
    },
    {
        "Enable": false,
        "Name": "ShadowProtect Bare Metal"
    },
    {
        "Enable": false,
        "Name": "System State"
    },
    {
        "Enable": false,
        "Name": "VMware Virtualization"
    },
    {
        "Enable": false,
        "Name": "Cloud File"
    },
    {
        "Enable": false,
        "Name": "Office 365 Exchange Online"
    }
},
"Id": "1634183989730",
"Name": "SQL"
},
"DeltaBlockSize": 131072,
"DeltaMergeEnabled": false,
"UploadFullIfGenDeltaFailed": false,
"Enabled": true,

```

```
    "WeeklyInFileDeltaSchedule": {
      "Day": [
        "D",
        "",
        "",
        "",
        "",
        "",
        "I",
        ""
      ]
    },
    "DefaultDeltaType": "I"
  }
}
},
"FilterSettingsList": {
  "Enable": false,
  "List": []
},
"AllowedIPSettingsList": {
  "Enable": false,
  "List": []
},
"AdvancedSettingsList": {
  "Enable": false,
  "List": []
}
}, ...
}
```

### 3.4.7 ListUserGroups

This API can be used to retrieve the information of a User Group.

The related settings can be found on the AhsayCBS web console at:

• [Backup / Restore] > [User, Groups & Policies] > [User Group]

<b>URL:</b>		
<a href="https://CBS.EXAMPLE.COM/obs/api/json/ListUserGroups.do">https://CBS.EXAMPLE.COM/obs/api/json/ListUserGroups.do</a>		
<b>Available since version:</b>		
9.1		
<b>Parameters:</b>		
Key	Type	Descriptions
SysUser	String	Username of an AhsayCBS System User with Admin or API role
SysPwd	String	Password matching SysUser
UserGroupID	String	Returns information of the user group with this ID. If UserGroupID and UserID are not provided, information of all user groups will be returned.
UserID	String	Returns information of the user groups that contain the user. If UserGroupID and UserID are not provided, information of all user groups will be returned.
UserGroupOnly	Boolean	Default value is false
<b>Return Values:</b>		
Key	Type	Descriptions
Status	String	"OK" or "Error"
Data	UserGroupBasicInfo or UserGroupFullInfo	If UserGroupOnly is true, UserGroupBasicInfo is returned. Otherwise UserGroupFullInfo is returned.
Message	String	Error message, it exists only if status is "Error"
ExptType	String	The type of exception, it exists only if status is "Error"
<b>JSON Objects:</b>		
<b>UserGroupBasicInfo</b>		
Key	Type	Descriptions
ID	String	
Name	String	
Type	String	BACKUP_USER
Owner	String	
<b>UserGroupFullInfo</b>		
Key	Type	Descriptions
ID	String	
Name	String	
Type	String	BACKUP_USER
Owner	String	
Users	Array of User	
PolicyGroup	Array of Policy	
<b>User</b>		
Key	Type	Descriptions
LoginName	String	Client user name
Owner	String	
UserId	String	
<b>Policy</b>		
Key	Type	Descriptions
ID	String	
Name	String	

### Example:

#### Input

```
{
  "SysUser": "api",
  "SysPwd": "pwd",
  "UserGroupID": "1496990008001"
}
```

#### Output

```
{
  "Status": "OK",
  "Data": [
    {
      "Name": "ghellik",
      "Owner": "",
      "Type": "BACKUP_USER",
      "ID": "1496990008001"
    }
  ]
}
```

### 3.4.8 ModifyUserGroup

This API let you modify the name of a User Group, add users or delete user to/from a User Group.

The related settings can be found on the AhsayCBS web console:

• [Backup / Restore] > [User, Groups & Policies] > [User Group]

<b>URL:</b>		
<a href="https://CBS.EXAMPLE.COM/obs/api/json/ModifyUserGroup.do">https://CBS.EXAMPLE.COM/obs/api/json/ModifyUserGroup.do</a>		
<b>Available since version:</b>		
9.1		
<b>Parameters:</b>		
Key	Type	Descriptions
SysUser	String	Username of an AhsayCBS System User with Admin or API role
SysPwd	String	Password matching SysUser
ID	String	User Group ID obtainable in from ListUserGroups API
UserGroupName	String	Group name
UserIdList	String	User names to be added to or removed from the user group. Multiple login names, separated by commas, are accepted. For example: user1,user2,user3
Mode	String	The value can be any one of the following: A (Default value) D  If the value is "A", users in UserIdList will be added to the user group. If the value is "D", users in UserIdList will be removed from the user group
<b>Return Values:</b>		
Key	Type	Descriptions
Status	String	"OK" or "Error"
Message	String	Error message, it exists only if status is "Error"
ExptType	String	The type of exception, it exists only if status is "Error"
<b>Example:</b>		
<b>Input</b>		
<pre>{   "SysUser": "api_user",   "SysPwd": "qWeRtY123456!@#%\$",   "ID": "1447039919940",   "UserIdList": "user",   "Mode": "D" }</pre>		
<b>Output</b>		
{"Status": "OK"}		
<b>Output 2 user not exist</b>		
<pre>{   "Status": "Error",   "Message": "[UserCacheManager.NoSuchUserExpt] User 'user' not found.",   "ExptType": "com.ahsay.obs.core.dbs.Y" }</pre>		

**Example:**

**Input incorrect parameter mode**

```
{  
  "SysUser": "api_user",  
  "SysPwd": "qWeRtY123456!@#$%",  
  "ID": "1447039919940",  
  "UserIdList": "user",  
  "Mode": "S"  
}
```

**Output**

```
{  
  "Status": "Error",  
  "Message": "[Error] Parameter Mode must either be A or D!",  
  "ExptType": "com.ahsay.obs.core.dbs.c"  
}
```



### 3.4.9 UpdatePolicyGroup (v1,v2)

This API can be used to update settings of a Policy Group.

The related settings can be found on the AhsayCBS web console:

- [Backup / Restore] > [User, Groups & Policies] > [Policy Group]
- The Policy Group ID can be created using AddPolicyGroup.do or can be found from the CBS Policy Group page, by looking at the URL. Example  
<https://CBS.example.com/cbs/obs/policy/EditPolicy.do?id=1632367172249>

Note: Retrieve all available parameters of policies that you can update by calling the ListPolicyGroups.do API first.

#### v1 UpdatePolicyGroup.do

<b>URL:</b>	
	<a href="https://CBS.EXAMPLE.COM/obs/api/json/UpdatePolicyGroup.do">https://CBS.EXAMPLE.COM/obs/api/json/UpdatePolicyGroup.do</a>
<b>Deprecated since version:</b>	
	7.15.6.38

#### v2 UpdatePolicyGroup.do

For features related to Quota Management, administrator needs to utilize v2 UpdatePolicyGroup.do.

<b>URL:</b>		
	<a href="https://CBS.EXAMPLE.COM/obs/api/json/2/UpdatePolicyGroup.do">https://CBS.EXAMPLE.COM/obs/api/json/2/UpdatePolicyGroup.do</a>	
<b>Available since version:</b>		
	9.5	
<b>Parameters:</b>		
Key	Type	Descriptions
SysUser	String	Username of an AhsayCBS System User with Admin or API role
SysPwd	String	Password matching SysUser
ID	String	Policy Group ID
Name	String	Policy name (rename possible)
Owner	String	Input SubAdmin name if Policy to be assigned to a SubAdmin
For details of all available parameters, refer to the PolicyGroup JSON object outlined in the <a href="#">ListPolicyGroups</a> chapter.		
<b>Return Values:</b>		
Key	Type	Descriptions
Status	String	"OK" or "Error"
Message	String	Error message, it exists only if status is "Error"
ExptType	String	The type of exception, it exists only if status is "Error"

Example:	
	<b>Input</b>
	<pre>{   "SysUser": "api_user",   "SysPwd": "qWeRtY123456!@#\$\$%",   "Name": "api-test-policy_renamedbyUPGAPI",   "ID": "1632367172249",   "Owner": "",   "UserSettings": {     "HostLimitSettings": {       "Enable": true,       "MaxHost": 45     },   } }</pre>
	<b>Output</b>
	<pre>{   "Status": "OK", }</pre>

Snippet Example (Deduplication):	
	<b>Input</b>
	<pre>{   "SysUser": "api_user",   "SysPwd": "qWeRtY123456!@#\$\$%",   "ID": "2",   ...   "DefaultValues": {     "DeduplicationSettingsList": {       "Enable": true,       "List": [         {           "@class": "com.ahsay.obx.cxp.cpf.policy.values.deduplication.DeduplicationSettings",           "MigrateData": false,           "AppliedValueSettings": {             "Type": "default",             "@class": "com.ahsay.obx.cxp.cpf.policy.values.AppliedValueSettings",             "Os": "",             "Version": "",             "Mode": "",             "BackupMode": "",             "AppliedModuleSettingsList": [               {                 "Enable": true,                 "Name": "FILE"               },               {                 "Enable": true,                 "Name": "Lotus Domino"               },               {                 "Enable": true,                 "Name": "Lotus Notes"               },               {                 "Enable": true,                 "Name": "Microsoft Exchange Server"               },               {                 "Enable": true,                 "Name": "Microsoft Exchange Mail (MAPI)"               },               {                 "Enable": true, </pre>

	<pre>         "Name": "Microsoft SQL Server"       },       {         "Enable": true,         "Name": "Microsoft Windows Virtualization"       },       {         "Enable": true,         "Name": "Microsoft Windows System Backup"       },       {         "Enable": true,         "Name": "MySQL"       },       {         "Enable": true,         "Name": "MariaDB"       },       {         "Enable": true,         "Name": "Oracle Database Server"       },       {         "Enable": true,         "Name": "ShadowProtect Bare Metal"       },       {         "Enable": true,         "Name": "System State"       },       {         "Enable": true,         "Name": "VMware Virtualization"       },       {         "Enable": true,         "Name": "Cloud File"       },       {         "Enable": true,         "Name": "Office 365 Exchange Online"       }     ],     "Id": "1434946034902",     "Name": "Default in-file Delta settings"   },   "Scope": "ALL_FILES",   "Enabled": true,   "SettingsMigrated": true,   "BlockSize": 262144 } ] } }, "MobileSettings": null } </pre>
	<b>Output</b>
	<pre> {   "Status": "OK", } </pre>

**Example:****Input**

```
{
  "SysUser": "api_user",
  "SysPwd": "qWeRtY123456!@#%$",
  "Name": "api-test-policy",
  "ID": "1632367172249",
  "Owner": "",
  "PreemptedValues": {
    "VmwareSettingsList": {
      "Enable": false,
      "List": []
    },
    "VolumeShadowCopySettingsList": {
      "Enable": false,
      "List": []
    },
    "AllowedIPSettingsList": {
      "Enable": false,
      "List": []
    },
    "FollowLinkSettingsList": {
      "Enable": false,
      "List": []
    },
    "InFileDeltaSettingsList": {
      "Enable": false,
      "List": []
    },
    "CompressionsSettingsList": {
      "Enable": false,
      "List": []
    },
    "WinUserAuthSettingsList": {
      "Enable": false,
      "List": []
    },
    "FileSettingsList": {
      "Enable": false,
      "List": []
    },
    "MswindowsSystemStateSettingsList": {
      "Enable": false,
      "List": []
    },
    "DestinationSettingsList": {
      "Enable": false,
      "List": []
    },
    "BandwidthControlSettingsList": {
      "Enable": false,
      "List": []
    },
    "NameSettingsList": {
      "Enable": false,
      "List": []
    },
    "RetentionPolicySettingsList": {
      "Enable": false,
      "List": []
    },
    "FilePermissionsSettingsList": {
      "Enable": false,
      "List": []
    },
    "MySQLSettingsList": {
      "Enable": false,
      "List": []
    }
  }
}
```

```

"ShadowProtectSettingsList": {
  "Enable": false,
  "List": []
},
"AdvancedSettingsList": {
  "Enable": false,
  "List": []
},
"CommandSettingsList": {
  "Enable": false,
  "List": []
},
"TemporaryDirectorySettingsList": {
  "Enable": false,
  "List": []
},
"OracleSettingsList": {
  "Enable": false,
  "List": []
},
"ReminderSettingsList": {
  "Enable": false,
  "List": []
},
"LotusNotesSettingsList": {
  "Enable": false,
  "List": []
},
"FilterSettingsList": {
  "Enable": false,
  "List": []
},
"MswindowsSystemSettingsList": {
  "Enable": false,
  "List": []
},
"LotusDominoSettingsList": {
  "Enable": false,
  "List": []
},
"ScheduleSettingsList": {
  "Enable": false,
  "List": []
},
"ArchivedLogDeletionSettingsList": {
  "Enable": false,
  "List": []
},
"EncryptionSettingsList": {
  "Enable": false,
  "List": []
},
"CdpSettingsList": {
  "Enable": false,
  "List": []
}
},
"UserSettings": {
  "MaximumBackupSetsSettings": {
    "MaximumBackupSetsPerUser": 10,
    "Enable": false
  },
  "BackupDestinationSettings": {
    "ApplicationName": "",
    "CustomDestinationList": [
      {
        "ChinaClientID": "e71a1234-1234-1234-b2f4-ccf1aa830a78",
        "@class": "com.ahsay.obx.cxp.cpf.policy.userSettings.OneDrive4BizDestination",
        "ChinaRedirectURI": "https://backupserverserver/register/oauth2-office365.jsp",
        "Enable": true,
        "ClientID": "d349b19f-0a90-1234-1234-0caa8224da04",

```

```

"RedirectURI": "https://backupserserver/register/oauth2-office365.jsp",
"Name": "OneDrive4Biz"
}
],
"SystemDestIDList": [],
"Enable": false,
"SystemDestinationList": []
},
"QuotaSettings": {
"SharedQuota": 10737418240,
"MaxPercentage": 50,
"Enable": true,
"Compress": true,
"SharedQuotaEnable": false
},
"CloudBackupSourceSettings": {
"Enable": true,
"CloudSourceList": [
{
"ChinaClientID": "e71a1234-1234-1234-b2f4-ccf1aa830a78",
"@class": "com.ahsay.obx.cxp.cpf.policy.userSettings.OneDrive4BizSource",
"ChinaRedirectURI": "https://backupserver/register/oauth2-office365.jsp",
"ClientID": "d349b19f-0a90-1234-1234-0caa8224da04",
"RedirectURI": "https://backupserver/register/oauth2-office365.jsp",
"Name": "OneDrive4Biz"
}
]
},
"EncryptionKeySettings": {
"Enable": false,
"Upload": false
},
"EmailReportSettings": {
"ContactList": [],
"SendInactiveBSetReport": false,
"Enable": false,
"ConsolidatedReportSendMin": 0,
"SendIndividualReport": false,
"SendConsolidatedReport": false,
"InactiveBSetReportSendDay": 30,
"ConsolidatedReportSendHour": 0
},
"PasswordSettings": {
"EnforcePasswordHistory": true,
"MinimumLength": 6,
"SpecialCharacters": true,
"Uppercase": true,
"Enable": false,
"Lowercase": true,
"Number": true,
"Type": "DEFAULT",
"PasswordAge": 90,
"MinimumLengthEnabled": true,
"Regex": ""
},
"LogonSettings": {
"InvalidLoginAttemptPeriod": 30,
"Enable": false,
"NumOfInvalidLogin": 3,
"BlockMinute": 60,
"BlockType": "MINUTE",
"BlockHour": 24
}
},
"Type": "BACKUP_USER",
"PreemptedBackupSetSettings": {
"PreemptedBackupSetList": []
},
"GuiSettings": {
"PrivilegeList": [
{

```

```

"PrivilegeGroup": "MainMenu",
"PolicyName": "Backup",
"EnableRead": true,
"Id": "M-10001",
"DisplayName": "Backup"
},
{
"PrivilegeGroup": "MainMenu",
"PolicyName": "Restore",
"EnableRead": true,
"Id": "M-10002",
"DisplayName": "Restore"
},
{
"PrivilegeGroup": "MainMenu",
"PolicyName": "BackupSets",
"EnableRead": true,
"Id": "M-10003",
"DisplayName": "Backup Sets"
},
{
"PrivilegeGroup": "MainMenu",
"PolicyName": "Settings",
"EnableRead": true,
"Id": "M-10004",
"DisplayName": "Settings"
},
{
"PrivilegeGroup": "MainMenu",
"PolicyName": "Report",
"EnableRead": true,
"Id": "M-10005",
"DisplayName": "Report"
},
{
"PrivilegeGroup": "MainMenu",
"PolicyName": "Utilities",
"EnableRead": true,
"Id": "M-10006",
"DisplayName": "Utilities"
},
{
"PrivilegeGroup": "MainMenu",
"PolicyName": "Profile",
"EnableRead": true,
"Id": "M-10007",
"DisplayName": "Profile"
},
{
"PrivilegeGroup": "MainMenu",
"PolicyName": "Language",
"EnableRead": true,
"Id": "M-10008",
"DisplayName": "Language",
"EnableWrite": true
},
{
"PrivilegeGroup": "MainMenu",
"PolicyName": "Information",
"EnableRead": true,
"Id": "M-10009",
"DisplayName": "Information"
},
{
"PrivilegeGroup": "MainMenu",
"PolicyName": "Advertisement",
"EnableRead": true,
"Id": "M-10010",
"DisplayName": "Advertisement"
},
}
{

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"PrivilegeGroup": "MainMenu",
"PolicyName": "SocialMedia",
"EnableRead": true,
"Id": "M-10011",
"DisplayName": "Links to Social Media"
},
{
"PrivilegeGroup": "Profile",
"PolicyName": "ProfileGeneralTab",
"EnableRead": true,
"Id": "P-10001",
"DisplayName": "General Tab"
},
{
"PrivilegeGroup": "Profile",
"PolicyName": "ProfileGeneralSettings",
"EnableRead": true,
"Id": "P-10002",
"DisplayName": "General Settings",
"EnableWrite": true
},
{
"PrivilegeGroup": "Profile",
"PolicyName": "ContactsTab",
"EnableRead": true,
"Id": "P-10003",
"DisplayName": "Contacts Tab"
},
{
"PrivilegeGroup": "Profile",
"PolicyName": "ContactsSettings",
"EnableRead": true,
"Id": "P-10004",
"DisplayName": "Contacts Settings",
"EnableWrite": true
},
{
"PrivilegeGroup": "Profile",
"PolicyName": "TimezoneTab",
"EnableRead": true,
"Id": "P-10005",
"DisplayName": "Timezone Tab"
},
{
"PrivilegeGroup": "Profile",
"PolicyName": "TimezoneSettings",
"EnableRead": true,
"Id": "P-10006",
"DisplayName": "Timezone Settings",
"EnableWrite": true
},
{
"PrivilegeGroup": "Profile",
"PolicyName": "PasswordTab",
"EnableRead": true,
"Id": "P-10007",
"DisplayName": "Password Tab"
},
{
"PrivilegeGroup": "Profile",
"PolicyName": "PasswordSettings",
"EnableRead": true,
"Id": "P-10008",
"DisplayName": "Password Settings",
"EnableWrite": true
},
{
"PrivilegeGroup": "Profile",
"PolicyName": "EncryptionRecoveryTab",
"EnableRead": true,
"Id": "P-10009",

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"DisplayName": "Encryption Recovery Tab"
},
{
  "PrivilegeGroup": "Profile",
  "PolicyName": "EncryptionRecoverySettings",
  "EnableRead": true,
  "Id": "P-100010",
  "DisplayName": "Encryption Recovery Settings",
  "EnableWrite": true
},
{
  "PrivilegeGroup": "BackupSets",
  "PolicyName": "GeneralSettingsName",
  "EnableRead": true,
  "Id": "BS-10003",
  "DisplayName": "General Settings - Name",
  "EnableWrite": true
},
{
  "PrivilegeGroup": "BackupSets",
  "PolicyName": "GeneralSettingsIBMDomino",
  "EnableRead": true,
  "Id": "BS-10004",
  "DisplayName": "General Settings - IBM Domino",
  "EnableWrite": true
},
{
  "PrivilegeGroup": "BackupSets",
  "PolicyName": "GeneralSettingsIBMNotes",
  "EnableRead": true,
  "Id": "BS-10005",
  "DisplayName": "General Settings - IBM Notes",
  "EnableWrite": true
},
{
  "PrivilegeGroup": "BackupSets",
  "PolicyName": "GeneralSettingsMSEXchangeServer",
  "EnableRead": true,
  "Id": "BS-10006",
  "DisplayName": "General Settings - MS Exchange Server",
  "EnableWrite": true
},
{
  "PrivilegeGroup": "BackupSets",
  "PolicyName": "GeneralSettingsMSHyperV",
  "EnableRead": true,
  "Id": "BS-10007",
  "DisplayName": "General Settings - MS HyperV",
  "EnableWrite": true
},
{
  "PrivilegeGroup": "BackupSets",
  "PolicyName": "GeneralSettingsMSSQLServer",
  "EnableRead": true,
  "Id": "BS-10008",
  "DisplayName": "General Settings - MSSQL Server",
  "EnableWrite": true
},
{
  "PrivilegeGroup": "BackupSets",
  "PolicyName": "GeneralSettingsWindowsSystemBackup",
  "EnableRead": true,
  "Id": "BS-10009",
  "DisplayName": "General Settings - Windows System Backup",
  "EnableWrite": true
},
{
  "PrivilegeGroup": "BackupSets",
  "PolicyName": "GeneralSettingsWindowsSystemStateBackup",
  "EnableRead": true,
  "Id": "BS-10010",

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"DisplayName": "General Settings - Windows System State Backup",
"EnableWrite": true
},
{
"PrivilegeGroup": "BackupSets",
"PolicyName": "GeneralSettingsMySQLServer",
"EnableRead": true,
"Id": "BS-10011",
"DisplayName": "General Settings - MySQL Server",
"EnableWrite": true
},
{
"PrivilegeGroup": "BackupSets",
"PolicyName": "GeneralSettingsOracleDatabaseServer",
"EnableRead": true,
"Id": "BS-10012",
"DisplayName": "General Settings - Oracle Database Server",
"EnableWrite": true
},
{
"PrivilegeGroup": "BackupSets",
"PolicyName": "GeneralSettingsVMwareHost",
"EnableRead": true,
"Id": "BS-10013",
"DisplayName": "General Settings - VMware Host",
"EnableWrite": true
},
{
"PrivilegeGroup": "BackupSets",
"PolicyName": "GeneralSettingsShadowProtect",
"EnableRead": true,
"Id": "BS-10014",
"DisplayName": "General Settings - Shadow Protect",
"EnableWrite": true
},
{
"PrivilegeGroup": "BackupSets",
"PolicyName": "GeneralSettingsWindowsUserAuthentication",
"EnableRead": true,
"Id": "BS-10015",
"DisplayName": "General Settings - Windows User Authentication",
"EnableWrite": true
},
{
"PrivilegeGroup": "BackupSets",
"PolicyName": "SourceTab",
"EnableRead": true,
"Id": "BS-10016",
"DisplayName": "Source Tab"
},
{
"PrivilegeGroup": "BackupSets",
"PolicyName": "SourceSettingsBackupSource",
"EnableRead": true,
"Id": "BS-10017",
"DisplayName": "Source Settings - BackupSource",
"EnableWrite": true
},
{
"PrivilegeGroup": "BackupSets",
"PolicyName": "SourceSettingsFilter",
"EnableRead": true,
"Id": "BS-10018",
"DisplayName": "Source Settings - Filter",
"EnableWrite": true
},
{
"PrivilegeGroup": "BackupSets",
"PolicyName": "BackupScheduleTab",
"EnableRead": true,
"Id": "BS-10020",

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"DisplayName": "Backup Schedule Tab"
},
{
  "PrivilegeGroup": "BackupSets",
  "PolicyName": "BackupScheduleSettings",
  "EnableRead": true,
  "Id": "BS-10021",
  "DisplayName": "Backup Schedule Settings",
  "EnableWrite": true
},
{
  "PrivilegeGroup": "BackupSets",
  "PolicyName": "ContinuousBackupTab",
  "EnableRead": true,
  "Id": "BS-10022",
  "DisplayName": "Continuous Backup Tab"
},
{
  "PrivilegeGroup": "BackupSets",
  "PolicyName": "ContinuousBackupSettings",
  "EnableRead": true,
  "Id": "BS-10023",
  "DisplayName": "Continuous Backup Settings",
  "EnableWrite": true
},
{
  "PrivilegeGroup": "BackupSets",
  "PolicyName": "DestinationTab",
  "EnableRead": true,
  "Id": "BS-10024",
  "DisplayName": "Destination Tab"
},
{
  "PrivilegeGroup": "BackupSets",
  "PolicyName": "DestinationSettings",
  "EnableRead": true,
  "Id": "BS-10025",
  "DisplayName": "Destination Settings",
  "EnableWrite": true
},
{
  "PrivilegeGroup": "BackupSets",
  "PolicyName": "InFileDeltaTab",
  "EnableRead": true,
  "Id": "BS-10026",
  "DisplayName": "In-File Delta Tab"
},
{
  "PrivilegeGroup": "BackupSets",
  "PolicyName": "InFileDeltaSettings",
  "EnableRead": true,
  "Id": "BS-10027",
  "DisplayName": "In-File Delta Settings",
  "EnableWrite": true
},
{
  "PrivilegeGroup": "BackupSets",
  "PolicyName": "RetentionPolicyTab",
  "EnableRead": true,
  "Id": "BS-10028",
  "DisplayName": "Retention Policy Tab"
},
{
  "PrivilegeGroup": "BackupSets",
  "PolicyName": "RetentionPolicySettings",
  "EnableRead": true,
  "Id": "BS-10029",
  "DisplayName": "Retention Policy Settings",
  "EnableWrite": true
},
},
{

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"PrivilegeGroup": "BackupSets",
"PolicyName": "CommandLineToolTab",
"EnableRead": true,
"Id": "BS-10030",
"DisplayName": "Command Line Tool Tab"
},
{
"PrivilegeGroup": "BackupSets",
"PolicyName": "CommandLineToolSettings",
"EnableRead": true,
"Id": "BS-10031",
"DisplayName": "Command Line Tool Settings",
"EnableWrite": true
},
{
"PrivilegeGroup": "BackupSets",
"PolicyName": "ReminderTab",
"EnableRead": true,
"Id": "BS-10032",
"DisplayName": "Reminder Tab"
},
{
"PrivilegeGroup": "BackupSets",
"PolicyName": "ReminderSettings",
"EnableRead": true,
"Id": "BS-10033",
"DisplayName": "Reminder Settings",
"EnableWrite": true
},
{
"PrivilegeGroup": "BackupSets",
"PolicyName": "BandwidthControlTab",
"EnableRead": true,
"Id": "BS-10034",
"DisplayName": "Bandwidth Control Tab"
},
{
"PrivilegeGroup": "BackupSets",
"PolicyName": "BandwidthControlSettings",
"EnableRead": true,
"Id": "BS-10035",
"DisplayName": "Bandwidth Control Settings",
"EnableWrite": true
},
{
"PrivilegeGroup": "BackupSets",
"PolicyName": "OthersTab",
"EnableRead": true,
"Id": "BS-10038",
"DisplayName": "Others Tab"
},
{
"PrivilegeGroup": "BackupSets",
"PolicyName": "OthersSettingsTemporaryDirectory",
"EnableRead": true,
"Id": "BS-10039",
"DisplayName": "Others Settings - Temporary Directory",
"EnableWrite": true
},
{
"PrivilegeGroup": "BackupSets",
"PolicyName": "OthersSettingsFollowLink",
"EnableRead": true,
"Id": "BS-10040",
"DisplayName": "Others Settings - Follow Link",
"EnableWrite": true
},
{
"PrivilegeGroup": "BackupSets",
"PolicyName": "OthersSettingsVolumeShadowCopy",
"EnableRead": true,

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    "Id": "BS-10041",
    "DisplayName": "Others Settings - Volume Shadow Copy",
    "EnableWrite": true
  },
  {
    "PrivilegeGroup": "BackupSets",
    "PolicyName": "OthersSettingsFilePermissions",
    "EnableRead": true,
    "Id": "BS-10042",
    "DisplayName": "Others Settings - File Permissions",
    "EnableWrite": true
  },
  {
    "PrivilegeGroup": "BackupSets",
    "PolicyName": "OthersSettingsArchivedLogDeletion",
    "EnableRead": true,
    "Id": "BS-10043",
    "DisplayName": "Others Settings - Archived Log Deletion",
    "EnableWrite": true
  },
  {
    "PrivilegeGroup": "BackupSets",
    "PolicyName": "OthersSettingsCompressions",
    "EnableRead": true,
    "Id": "BS-10044",
    "DisplayName": "Others Settings - Compressions",
    "EnableWrite": true
  },
  {
    "PrivilegeGroup": "BackupSets",
    "PolicyName": "OthersSettingsEncryption",
    "EnableRead": true,
    "Id": "BS-10045",
    "DisplayName": "Others Settings - Encryption"
  },
  {
    "PrivilegeGroup": "BackupSets",
    "PolicyName": "OthersSettingsChangedBlockTracking",
    "EnableRead": true,
    "Id": "BS-10046",
    "DisplayName": "Others Settings - Changed Block Tracking",
    "EnableWrite": true
  },
  {
    "PrivilegeGroup": "Settings",
    "PolicyName": "ProxyTab",
    "EnableRead": true,
    "Id": "S-10001",
    "DisplayName": "Proxy Tab"
  },
  {
    "PrivilegeGroup": "Settings",
    "PolicyName": "ProxySettings",
    "EnableRead": true,
    "Id": "S-10002",
    "DisplayName": "Proxy Settings",
    "EnableWrite": true
  },
  {
    "PrivilegeGroup": "Settings",
    "PolicyName": "WindowsEventLogTab",
    "EnableRead": true,
    "Id": "S-10005",
    "DisplayName": "Windows Event Log Tab"
  },
  {
    "PrivilegeGroup": "Settings",
    "PolicyName": "WindowsEventLogSettings",
    "EnableRead": true,
    "Id": "S-10006",
    "DisplayName": "Windows Event Log Settings",
  }

```

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"EnableWrite": true
},
{
  "PrivilegeGroup": "Utilities",
  "PolicyName": "DataIntegrityCheck",
  "EnableRead": true,
  "Id": "U-10001",
  "DisplayName": "Data Integrity Check"
},
{
  "PrivilegeGroup": "Utilities",
  "PolicyName": "SpaceFreeingUp",
  "EnableRead": true,
  "Id": "U-10002",
  "DisplayName": "Space Freeing Up"
},
{
  "PrivilegeGroup": "Utilities",
  "PolicyName": "DeleteBackupData",
  "EnableRead": true,
  "Id": "U-10003",
  "DisplayName": "Delete Backup Data"
},
{
  "PrivilegeGroup": "BackupSets",
  "PolicyName": "AddAndRemove",
  "EnableRead": true,
  "Id": "BS-10001",
  "DisplayName": "Add and Remove Backup Set"
},
{
  "PrivilegeGroup": "BackupSets",
  "PolicyName": "GeneralTab",
  "EnableRead": true,
  "Id": "BS-10002",
  "DisplayName": "General Tab"
}
}
},
"ID": "1446023471399",
"BackupSetSettings": {
  "ExcludeFileSettings": {
    "LastModifiedPeriod": 10,
    "FileSize": 10737418240,
    "ExcludeMappedDrive": true,
    "ExcludeLastModified": true,
    "LastModifiedPeriodType": "YEAR",
    "LastModifiedType": "PERIOD",
    "Enable": false,
    "LastModifiedDate": -1,
    "ExcludeFileSize": true
  }
},
"DefaultValues": {
  "VmwareSettingsList": {
    "Enable": false,
    "List": []
  },
  "VolumeShadowCopySettingsList": {
    "Enable": false,
    "List": []
  },
  "AllowedIPSettingsList": {
    "Enable": false,
    "List": []
  },
  "FollowLinkSettingsList": {
    "Enable": false,
    "List": []
  },
  "InFileDeltaSettingsList": {

```

```
"Enable": false,
  "List": []
},
"CompressionsSettingsList": {
  "Enable": false,
  "List": []
},
"WinUserAuthSettingsList": {
  "Enable": false,
  "List": []
},
"FileSettingsList": {
  "Enable": false,
  "List": []
},
"MswindowsSystemStateSettingsList": {
  "Enable": false,
  "List": []
},
"DestinationSettingsList": {
  "Enable": false,
  "List": []
},
"BandwidthControlSettingsList": {
  "Enable": false,
  "List": []
},
"NameSettingsList": {
  "Enable": false,
  "List": []
},
"RetentionPolicySettingsList": {
  "Enable": false,
  "List": []
},
"FilePermissionsSettingsList": {
  "Enable": false,
  "List": []
},
"MySQLSettingsList": {
  "Enable": false,
  "List": []
},
"ShadowProtectSettingsList": {
  "Enable": false,
  "List": []
},
"AdvancedSettingsList": {
  "Enable": false,
  "List": []
},
"CommandSettingsList": {
  "Enable": false,
  "List": []
},
"TemporaryDirectorySettingsList": {
  "Enable": false,
  "List": []
},
"OracleSettingsList": {
  "Enable": false,
  "List": []
},
"ReminderSettingsList": {
  "Enable": false,
  "List": []
},
"LotusNotesSettingsList": {
  "Enable": false,
  "List": []
},
}
```

<pre> "FilterSettingsList": {   "Enable": false,   "List": [] }, "MswindowsSystemSettingsList": {   "Enable": false,   "List": [] }, "LotusDominoSettingsList": {   "Enable": false,   "List": [] }, "ScheduleSettingsList": {   "Enable": false,   "List": [] }, "ArchivedLogDeletionSettingsList": {   "Enable": false,   "List": [] }, "EncryptionSettingsList": {   "Enable": false,   "List": [] }, "CdpSettingsList": {   "Enable": false,   "List": [] } } </pre>
<b>Output</b>
<pre> {   "Status": "OK" } </pre>
<b>Output - If v1 UpdatePolicyGroup parameter FileSettingsList was in the input</b>
<pre> {   "Status": "Error",   "Message": "'FileSettingsList' is deprecated. It is only supported in UpdatePolicyGroup v1 API. Please use 'SourceShortcutSettingsList' instead"   "ExptType": "java.lang.Exception" } </pre>
<b>Output - If ClientID is empty from the input</b>
<pre> {   "Status": "Error",   "Message": "ClientID cannot be empty in OneDrive4Biz of CustomDestinationList!"   "ExptType": "java.lang.Exception" } </pre>
<b>Output - If RedirectURI is empty from the input</b>
<pre> {   "Status": "Error",   "Message": "RedirectURI cannot be empty in OneDrive4Biz of CustomDestinationList!"   "ExptType": "java.lang.Exception" } </pre>
<b>Output - If ChinaClientID is empty from the input</b>
<pre> {   "Status": "Error",   "Message": "ChinaClientID cannot be empty in OneDrive4Biz of CustomDestinationList!"   "ExptType": "java.lang.Exception" } </pre>
<b>Output - If ChinaRedirectURI is empty from the input</b>
<pre> {   "Status": "Error",   "Message": "ChinaRedirectURI cannot be empty in OneDrive4Biz of CustomDestinationList!"   "ExptType": "java.lang.Exception" } </pre>



Note: The same error will also be displayed if the ClientID, RedirectURI, ChinaClientID, or ChinaRedirectURI is empty in the CloudSourceList

It is highly recommended for administrator to retrieve all policy settings with the v2 ListPolicyGroups API. Update the values of the settings to be changed, based on the response / parameters returned by the v2 ListPolicyGroups API.

Example:	
	<b>Input - If incorrect value is used</b>
	<pre>{   "SysUser": "api_user",   "SysPwd": "qWeRtY123456!@#\$\$%",   "ID": "2",   "UserSettings": {     "UserQuotaSettings": {       "QuotaType": "perDestinationQuota",       "StorageQuota": 0     }   } }</pre>
	<b>Output</b>
	<pre>{   "Status": "Error",   "Message": "Invalid value. 'QuotaType' must be 'TOTAL_QUOTA' or 'PER_DESTINATION_QUOTA'.",   "ExptType": "com.ahsay.obs.core.dbs.DbsException" }</pre>

Example:	
	<b>Input - If incorrect value is used</b>
	<pre>{   "SysUser": "api_user",   "SysPwd": "qWeRtY123456!@#\$\$%",   "ID": "2",   "UserSettings": {     "UserQuotaSettings": {       "QuotaType": "TOTAL_QUOTA",       "StorageQuota": 0     }   } }</pre>
	<b>Output</b>
	<pre>{   "Status": "Error",   "Message": "Invalid value 'StorageQuota'. Error: Must be a positive number.",   "ExptType": "java.lang.Exception" }</pre>

### 3.4.10 AddPolicyGroup

This API let you add (create) a new Policy Group and optionally allocate it to User Group(s), returned is the PolicyGroupID that can be used with UpdatePolicyGroup.do.

The related settings can be found on the AhsayCBS web console:

🔗 [Backup / Restore] > [User, Groups & Policies] > [Policy Group]

URL:			
<a href="https://CBS.EXAMPLE.COM/obs/api/json/AddPolicyGroup.do">https://CBS.EXAMPLE.COM/obs/api/json/AddPolicyGroup.do</a>			
Available since version:			
9.1			
Parameters:			
Key	Type	Descriptions	
SysUser	String	Username of an AhsayCBS System User with Admin or API role	
SysPwd	String	Password matching SysUser	
Name	String	Name of the Policy Group	
Owner	String	Input SubAdmin name if Policy to be assigned to a SubAdmin	
UserGroupIDList	Array of String	Array of User Group ID	
Return Values:			
Key	Type	Descriptions	
Status	String	"OK" or "Error"	
Message	String	Error message, it exists only if status is "Error"	
PolicyGroupID	String	ID of the Policy Group	
Example:			
Input			
<pre>{   "SysUser": "api_user",   "SysPwd": "qWeRtY123456!@#%\$",   "Name": "All Users",   "Owner": "",   "UserGroupIDList": ["1"] }</pre>			
Output			
<pre>{   "Status": "Error",   "Message": "[Error] Parameter Name, All Users, already exists!",   "ExptType": "com.ahsay.cbs.core.dbs.DbsException" }</pre>			

Example:			
Input			
<pre>{   "SysUser": "api_user",   "SysPwd": "qWeRtY123456!@#%\$",   "Name": "Test1",   "Owner": "Sub Admin",   "UserGroupIDList": ["1", "1621406473331"] }</pre>			
Output			
<pre>{   "Status": "OK",   "PolicyGroupID": "1621562348002" }</pre>			

Example:	
	<b>Input</b>
	<pre>{   "SysUser": "api_user",   "SysPwd": "qWeRtY123456!@#\$\$%",   "Name": "Test2",   "Owner": "",   "UserGroupIDList": ["1", "3"] }</pre>
	<b>Output</b>
	<pre>{   "Status": "Error",   "Message": "[Error] Parameter UserGroupID, 3 is not 13-digit format!",   "ExptType": "com.ahsay.obs.core.dbs.DbsException" }</pre>

Example:	
	<b>Input</b>
	<pre>{   "SysUser": "api_user",   "SysPwd": "qWeRtY123456!@#\$\$%",   "Name": "Test4",   "Owner": "",   "UserGroupIDList": [0] }</pre>
	<b>Output</b>
	<pre>{   "Status": "Error",   "Message": "JSONArray[0] not a string.",   "ExptType": "org.json.JSONException" }</pre>

Example:	
	<b>Input</b>
	<pre>{   "SysUser": "api_user",   "SysPwd": "qWeRtY123456!@#\$\$%",   "Name": "Test6",   "Owner": 0,   "UserGroupIDList": ["1"] }</pre>
	<b>Output</b>
	<pre>{   "Status": "Error",   "Message": "[Error] Parameter Owner '0' is not a valid owner.",   "ExptType": "com.ahsay.obs.core.dbs.DbsException" }</pre>

### 3.4.11 AddPolicyGroupToUserGroup

This API let you assign Policy Group(s) to a User Group.

The related settings can be found on the AhsayCBS web console:

🔗 [Backup / Restore] > [User, Groups & Policies] > [User Group]

<b>URL:</b>		
<a href="https://CBS.EXAMPLE.COM/obs/api/json/AddPolicyGroupToUserGroup.do">https://CBS.EXAMPLE.COM/obs/api/json/AddPolicyGroupToUserGroup.do</a>		
<b>Available since version:</b>		
9.1		
<b>Parameters:</b>		
Key	Type	Descriptions
SysUser	String	Username of an AhsayCBS System User with Admin or API role
SysPwd	String	Password matching SysUser
UserGroupID	String	ID of User Group
PolicyGroupIDList	Array of String	Array of Policy Group ID
<b>Return Values:</b>		
Key	Type	Descriptions
Status	String	"OK" or "Error"
Message	String	Error message, it exists only if status is "Error"
<b>Example:</b>		
<b>Input</b>		
<pre>{   "SysUser": "api_user",   "SysPwd": "qWeRtY123456!@#\$\$%",   "UserGroupID": "1",   "PolicyGroupIDList": ["1621478982811"] }</pre>		
<b>Output</b>		
<pre>{   "Status": "OK" }</pre>		

<b>Example:</b>		
<b>Input</b>		
<pre>{   "SysUser": "api_user",   "SysPwd": "qWeRtY123456!@#\$\$%",   "UserGroupID": "1",   "PolicyGroupIDList": ["1621490163834", "1621479367908"] }</pre>		
<b>Output</b>		
<pre>{   "Status": "OK" }</pre>		

Example:	
	<b>Input</b>
	<pre>{   "SysUser": "api_user",   "SysPwd": "qWeRtY123456!@#\$\$%",   "UserGroupID": "1",   "PolicyGroupIDList": ["2"] }</pre>
	<b>Output</b>
	<pre>{   "Status": "Error",   "Message": "[Error] Parameter PolicyGroupIDList, 2, already exists in UserGroupID 1!",   "ExptType": "com.ahsay.cbs.core.dbs.DbsException" }</pre>

Example:	
	<b>Input</b>
	<pre>{   "SysUser": "api_user",   "SysPwd": "qWeRtY123456!@#\$\$%",   "UserGroupID": "3",   "PolicyGroupIDList": ["2"] }</pre>
	<b>Output</b>
	<pre>{   "Status": "Error",   "Message": "[Error] Parameter UserGroupID, 3 is not 13-digit format!",   "ExptType": "com.ahsay.obs.core.dbs.DbsException" }</pre>

Example:	
	<b>Input</b>
	<pre>{   "SysUser": "api_user",   "SysPwd": "qWeRtY123456!@#\$\$%",   "UserGroupID": "1111111111111",   "PolicyGroupIDList": ["2"] }</pre>
	<b>Output</b>
	<pre>{   "Status": "Error",   "Message": "[Error] Parameter UserGroupID, 1111111111111 does not exist!",   "ExptType": "com.ahsay.obs.core.dbs.DbsException" }</pre>

## 4 User API

### 4.1 User

#### 4.1.1 ListUsers (v1,v2)

This API can be used to retrieve users information, with various filter options. The related settings can be found on the AhsayCBS web console:

🔗 [Backup / Restore] > [User, Groups & Policies] > [Backup User]

#### v1 ListUsers.do

<b>URL:</b>
<a href="https://CBS.EXAMPLE.COM/obs/api/json/ListUsers.do">https://CBS.EXAMPLE.COM/obs/api/json/ListUsers.do</a>
<b>Deprecated since version:</b>
7.15.6.38

#### v2 ListUsers.do

v2 ListUsers.do API was introduced for handling of features related to Quota Management.

<b>URL:</b>		
<a href="https://CBS.EXAMPLE.COM/obs/api/json/2/ListUsers.do">https://CBS.EXAMPLE.COM/obs/api/json/2/ListUsers.do</a>		
<b>Available since version:</b>		
9.5		
<b>Parameters:</b>		
Key	Type	Descriptions
SysUser	String	Username of an AhsayCBS System User with Admin or API role
SysPwd	String	Password matching SysUser
Criteria	String	all paid trial suspended locked inactive A-B B-C ... and others
searchBy	String	"Name"
searchStr	String	Only users with login name that contains searchStr are listed
reseller	String	Login name of a reseller. Only users under that reseller are listed.
UserGroupID	String	ID of a user group. Only users under that user group are listed.
PolicyGroupID	String	ID of a policy group. Only users under that policy group are listed.
Date	String	Number of days. Only users that are registered within that number of days are listed.
ClientType	String	OBM / ACB. Only that type of users is listed.
LoginNameOnly	Boolean	If it is true, only login name of users are returned.
ClientTypeOnly	Boolean	If it is true, only login name and client type of users are returned.

Return Values:		
Key	Type	Descriptions
Status	String	OK / Error
User	Array	If ClientTypeOnly is true, an array of UserClientType is returned.  If LoginNameOnly is true, an array of UserLoginName is returned.  Otherwise, an array of User is returned.
Message	String	Error message, it exists only if status is Error
ExptType	String	The type of exception, it exists only if status is Error

### JSON Objects:

#### UserClientType

Key	Type	Descriptions
ID	String	
LoginName	String	Client user name
Owner	String	
Userid	String	Unique for each user
ClientType	String	ACB / OBM
QuotaUsed	Integer	User quota used by the user

#### UserLoginName

Key	Type	Descriptions
ID	String	
LoginName	String	Client user name
Owner	String	
Userid	String	
ClientType	String	ACB / OBM
QuotaUsed	Integer	User quota used by the user

#### User

Key	Type	Descriptions
ID	String	
LoginName	String	Client user name
Owner	String	
Userid	String	
Alias	String	Display name
UserType	String	TRIAL / PAID. Default to TRIAL if not specified
ClientType	String	ACB / OBM
QuotaUsed	Integer	User quota used by the user
DestinationQuotaList	Array	
DestinationName	String	
DestinationKey	Long	
Online	Boolean	
Timezone	String	Refer to Appendix for timezone string / ID
Language	String	
DataFile	Long	Number of files in data area (Exclude local destination)
DataSize	Long	Compressed size of data area (Exclude local destination)
RetainFile	Long	Number of files in retention area (Exclude local destination)
RetainSize	Long	Compressed size of retention area (Exclude local destination)
EnableMSSQL	Boolean	
EnableMSExchange	Boolean	
MsExchangeQuota	Long	
EnableMsWinSysState	Boolean	
EnableOracle	Boolean	
EnableLotusNotes	Boolean	
EnableLotusDomino	Boolean	
EnableMySQL	Boolean	
EnableInFileDelta	Boolean	
EnableShadowCopy	Boolean	
EnableExchangeMailbox	Boolean	
ExchangeMailboxQuota	Long	
EnableNASClient	Boolean	
EnableQnap	Boolean	
EnableDeltaMerge	Boolean	

EnableMsVm	Boolean	
EnableOpenDirect	Boolean	
OpenDirectQuota	Long	
MsVmQuota	Long	
EnableVMware	Boolean	
VMwareQuota	Long	Number of Guest VM allowed
Bandwidth	Long	
Notes	String	
Status	String	SUSPENDED / ENABLE
RegistrationDate	Long	
SuspendPaidUser	Boolean	
SuspendPaidUserDate	String	
LastBackupDate	Long	
EnableCDP	Boolean	
EnableShadowProtectBareMetal	Boolean	
EnableWinServer2008BareMetal	Boolean	Add-on module of Windows system backup
MsVmQuotaType	String	GUESTVM / SOCKET
VMwareQuotaType	String	GUESTVM / SOCKET
EnableMobile	Boolean	
MobileQuota	Long	
EnableOffice365Mail	Boolean	
Office365MailQuota	Long	
Hostname	String	
LdapUser	String	
LdapDeleteUser	Long	
LdapDisableUser	Long	
ExpiryDate	Long	
LatestClientVersion	String	
UserGroupIDList	Array	Array of user group ID
UserHome	String	
Contact	Array	
QuotaList	Array	Array of backup quota for backup destination.
QuotaType	String	Quota Type, either TOTAL_QUOTA or PER_DESTINATION_QUOTA
StorageQuota	Long	Total Quota in GB. Value validity examined when used by TOTAL_QUOTA
<b>QuotaList</b>		
<b>Key</b>	<b>Type</b>	<b>Descriptions</b>
Enabled	Boolean	
DestinationName	String	Name of the backup destination
DestinationKey	String	ID of the backup destination, or OBS for quota on AhsayCBS
Quota	Integer	Unit in bytes Value validity examined when used by PER_DESTINATION_QUOTA
<b>UserGroup</b>		
<b>Key</b>	<b>Type</b>	<b>Descriptions</b>
UserGroupID	String	
UserGroupName	String	
ShowLink	Boolean	
<b>Contact</b>		
<b>Key</b>	<b>Type</b>	<b>Descriptions</b>
Name	String	
Email	String	Example: <i>name@domain.com</i>



## Example:

### Input

```
{
  "SysUser": "api_user",
  "SysPwd": "qWeRtY123456!@$%",
  "searchStr": "username"
}
```

### Output

```
{
  "User": [
    {
      "DataFile": 422,
      "LoginName": "username",
      "Online": false,
      "RetainSize": 928,
      "VMwareQuotaType": "GUESTVM",
      "LatestClientVersion": "7.15.2.2",
      "LastBackupDate": 1521623413585,
      "EnableOffice365Mail": true,
      "EnableLotusNotes": true,
      "Timezone": "1098",
      "ID": "1515980405697",
      "UserHome": "C:\\Program Files\\AhsayOBS and AhsayRPS\\user\\username",
      "ExchangeMailboxQuota": 10,
      "EnableMsWinSysState": true,
      "EnableLotusDomino": true,
      "Bandwidth": 0,
      "UserType": "PAID",
      "Office365MailQuota": 10,
      "SuspendPaidUser": false,
      "EnableOpenDirect": true,
      "SuspendPaidUserDate": "20180115",
      "EnableNASClient": false, "Notes": "",
      "ExpiryDate": -99,
      "QuotaUsed": 5,
      "EnableShadowCopy": true,
      "RegistrationDate": 1515980405697,
      "EnableMySQL": true,
      "QuotaList": [
        {
          "Enabled": true,
          "Quota": 10737418240,
          "DestinationName": "AhsayCBS - Predefined",
          "DestinationKey": "-1527764681764"
        },
        {
          "Enabled": true,
          "Quota": 53687091200,
          "DestinationName": "AhsayCBS",
          "DestinationKey": "OBS"
        }
      ],
      "LdapDisableUser": -1,
      "DataSize": 29027677,
      "ClientType": "OBM",
      "MsVmQuotaType": "GUESTVM",
      "LdapDeleteUser": -1,
      "EnableVMware": true,
      "EnableShadowProtectBareMetal": true,
      "MsVmQuota": 10,
      "EnableMsVm": true,
      "EnableMSSQL": true,
      "LdapUser": false,
      "Hostname": "",
      "EnableInFileDelta": true,
      "EnableExchangeMailbox": true,
      "EnableCDP": true,
      "Owner": "",
      "EnableOracle": true,
    }
  ]
}
```

```
"MobileQuota":0,
"Contact":[],
"UserGroupIDList":[],
"UserId":"username",
"OpenDirectQuota":10,
"EnableWinServer2008BareMetal":true,
"Status":"ENABLE",
"Alias": "",
"VMwareQuota":10,
"RetainFile":5,
"Language":"en",
"EnableMobile":false,
"StorageQuota": 25,
"QuotaType": "TOTAL_QUOTA",
"EnableMSEExchange":true
}
},
"Status": "OK"
}
```

## 4.1.2 AuthUser

This API checks whether a user exists or not.

The related settings can be found on the AhsayCBS web console:

• [Backup / Restore] > [User, Groups & Policies] > [Backup User]

<b>URL:</b>			
<a href="https://CBS.EXAMPLE.COM/obs/api/json/AuthUser.do">https://CBS.EXAMPLE.COM/obs/api/json/AuthUser.do</a>			
<b>Available since version:</b>			
9.1			
<b>Parameters:</b>			
Key	Type	Descriptions	
SysUser	String	Username of an AhsayCBS System User with Admin or API role	
SysPwd	String	Password matching SysUser	
LoginName	String	Client user name	
Owner	String		
Password			
<b>Return Values:</b>			
Key	Type	Descriptions	
Status	String	"OK" or "Error"	
Message	String	Error message, it exists only if status is "Error"	
ExptType	String	The type of exception, it exists only if status is "Error"	
<b>Example:</b>			
<b>Input User found</b>			
<pre>{   "SysUser": "api",   "SysPwd": "pwd",   "LoginName": "user"   "Password": "userpwd" }</pre>			
<b>Output</b>			
<pre>{"Status": "OK"}</pre>			
<b>Example:</b>			
<b>Input User does not exist</b>			
<pre>{   "SysUser": "api",   "SysPwd": "pwd",   "LoginName": "dummyuser"   "Password": "dummpwd" }</pre>			
<b>Output</b>			
<pre>{   "Status": "Error",   "Message": "[UserCacheManager.NoSuchUserExpt] User 'dummyuser' not found.",   "ExptType": "com.ahsay.obs.core.dbs.Y" }</pre>			

### 4.1.3 RunSingleUserRebuild

This API rebuilds a particular v6 legacy backupset of a user.

The related settings can be found on the AhsayCBS web console:

- [Backup / Restore] > [User, Groups & Policies] > [Backup User] > Choose a user
- > [Backup Set] > Choose a v6 backup set > [Destination] > [Standard Destination] > Rebuild

<b>URL:</b>			
<a href="https://CBS.EXAMPLE.COM/obs/api/json/RunSingleUserRebuild.do">https://CBS.EXAMPLE.COM/obs/api/json/RunSingleUserRebuild.do</a>			
<b>Available since version:</b>			
9.1			
<b>Parameters:</b>			
Key	Type	Descriptions	
SysUser	String	Username of an AhsayCBS System User with Admin or API role	
SysPwd	String	Password matching SysUser	
LoginName	String	User name	
Owner	String		
BackupSetID	String	ID of the backupset. Obtainable in GetBackupset API.	
CheckCrc	Boolean	Cyclic redundancy check	
<b>Return Values:</b>			
Key	Type	Descriptions	
Status	String	"OK" or "Error"	
Message	String	Error message, it exists only if status is "Error"	
ExptType	String	The type of exception, it exists only if status is "Error"	
<b>JSON Objects:</b>			
<b>RebuildStatus</b>			
Key	Type	Descriptions	
LoginName	String	Client user name	
BackupSetID	String		
Status	String		
StartTime	Long		
EndTime	Long		
<b>Example:</b>			
<b>Input</b>			
<pre>{   "SysUser": "api",   "SysPwd": "pwd",   "LoginName": "user",   "BackupSetID": "497320488529", }</pre>			
<b>Output</b>			
<pre>{"Status": "OK"}</pre>			
<b>Output 2 Backupset not exist</b>			
<pre>{   "Status": "Error",   "Message": "Backup Set for ID="497320488529"not found",   "ExptType": "com.ahsay.obs.core.dbs.c" }</pre>			

## 4.1.4 GetSingleUserRebuildStatus

This API allows you to get the information of the recent v6 legacy backupset rebuild.

The related settings can be found on the AhsayCBS web console:

• [Monitoring] > [Administration Logs] > [Audit Trails]

<b>URL:</b>			
<a href="https://CBS.EXAMPLE.COM/obs/api/json/GetSingleUserRebuildStatus.do">https://CBS.EXAMPLE.COM/obs/api/json/GetSingleUserRebuildStatus.do</a>			
<b>Available since version:</b>			
9.1			
<b>Parameters:</b>			
Key	Type	Descriptions	
SysUser	String	Username of an AhsayCBS System User with Admin, API, or RO API role	
SysPwd	String	Password matching SysUser	
LoginName	String	User name	
Owner	String		
<b>Return Values:</b>			
Key	Type	Descriptions	
Status	String	"OK" or "Error"	
Data	JSON Object RebuildStatus		
Message	String	Error message, it exists only if status is "Error"	
ExptType	String	The type of exception, it exists only if status is "Error"	
<b>JSON Objects:</b>			
<b>RebuildStatus</b>			
Key	Type	Descriptions	
LoginName	String	Client user name	
BackupSetID	String		
Status	String		
StartTime	Long		
EndTime	Long		
<b>Example:</b>			
<b>Input</b>			
<pre>{   "SysUser": "api",   "SysPwd": "pwd",   "LoginName": "user" }</pre>			
<b>Output</b>			
<pre>{   "Status": "OK",   "Data": {     "Status": "Finished",     "LoginName": "opendirect",     "EndTime": 1497320785971,     "StartTime": 1497320785835,     "BackupSetID": "ALL"   } }</pre>			
<b>Output 2 Not yet started</b>			
<pre>{   "Status": "OK",   "Data": {     "Status": "Not yet started",     "LoginName": "opendirect",     "EndTime": -1,     "StartTime": -1, </pre>			

```
"BackupSetID": ""
```

```
}  
}
```

## 4.1.5 GetUserStorageStat

This API allows you to get the file statistic of a backup set of a user.

The related settings can be found on the AhsayCBS web console:

[\[Backup / Restore\]](#) > [\[User, Groups & Policies\]](#) > [\[Backup user\]](#) > [Choose a user](#) > [\[Statistics\]](#)

<b>URL:</b>		
<a href="https://CBS.EXAMPLE.COM/obs/api/json/GetUserStorageStat.do">https://CBS.EXAMPLE.COM/obs/api/json/GetUserStorageStat.do</a>		
<b>Available since version:</b>		
9.1		
<b>Parameters:</b>		
Key	Type	Descriptions
SysUser	String	Username of an AhsayCBS System User with Admin, API, or RO API role
SysPwd	String	Password matching SysUser
LoginName	String	Backup user name
Owner	String	
YearMonth	String	In "yyyy-MM" format. For example, to get the storage statistics of January 2017, the parameter is "2017-01"
BackupSetID	String	"all" to get statistics of all backup sets, or the backup set ID of the backup set
<b>Return Values:</b>		
Key	Type	Descriptions
Status	String	"OK" or "Error"
Data	Array of AverageStat	
Message	String	Error message, it exists only if status is "Error"
ExptType	String	The type of exception, it exists only if status is "Error"
<b>JSON Objects:</b>		
<b>AverageStat</b>		
Key	Type	Descriptions
YearMonth	String	yyyy-MM
AvgDataSize	String	Average data size in k / M / G format of all backup sets
AvgDataRawSize	String	Average data size in raw byte format of all backup sets
AvgDataNo	String	
AvgRetainSize	String	Average retained data size in k / M / G format of all backup sets
AvgRetainRawSize	String	Average retained data size in raw byte format of all backup sets
AvgRetainNo	String	
AvgUploadSize	String	Average uploaded data size in k / M / G format of all backup sets
AvgUploadRawSize	String	Average uploaded data size in raw byte format of all backup sets
AvgUploadNo	String	
AvgTotalStorageSize	String	Average total storage size in k / M / G format of all backup sets
AvgTotalStorageRawSize	String	Average total storage size in raw byte format of all backup sets
AvgTotalStorageNo	String	
Storage	Array of DetailStat	
<b>DetailStat</b>		
Key	Type	Descriptions
Date	String	yyyy-MM-dd
DataSize	String	Data size in k / M / G format
DataRawSize	String	Data size in raw byte format
DataUncompressed	String	Uncompressed data size in k / M / G format
DataRawUncompressed	String	Uncompressed data size in raw byte format
DataNo	String	
RetainSize	String	Retained data size in k / M / G format

RetainRawSize	String	Retained data size in raw byte format
RetainUncompressed	String	Uncompressed retained data size in k / M / G format
RetainRawUncompressed	String	Uncompressed retained data size in raw byte format
RetainNo	String	
UploadSize	String	Uploaded data size in k / M / G format
UploadRawSize	String	Uploaded data size in raw byte format
UploadUncompressed	String	Uncompressed uploaded data size in k / M / G format
UploadRawUncompressed	String	Uncompressed uploaded data size in raw byte format
UploadNo	String	
TotalStorageSize	String	Total storage size in k / M / G format
TotalStorageRawSize	String	Total storage size in raw byte format
TotalStorageUncompressed	String	Uncompressed total storage size in k / M / G format
TotalStorageRawUncompressed	String	Uncompressed total storage size in raw byte format
TotalStorageNo	String	
DestinationID	String	Desintation storage ID

### Example:

#### Input

```
{
  "SysUser": "api",
  "SysPwd": "pwd",
  "LoginName": "user",
  "YearMonth": "2018-03"
}
```

#### Output

```
{
  "Status": "OK",
  "Data": {
    "AvgRetainRawUncompressed": "2934857413",
    "AvgUploadRawSize": "14783430685",
    "AvgUploadNo": "45",
    "AvgTotalStorageNo": "464",
    "AvgDataUncompressed": "29.07G",
    "AvgDataNo": "445",
    "AvgTotalStorageSize": "19.69G",
    "YearMonth": "2018-03",
    "AvgUploadUncompressed": "22.12G",
    "AvgDataRawSize": "18212777351",
    "AvgUploadRawUncompressed": "23749526049",
    "AvgDataSize": "16.96G",
    "Storage": [
      {
        "UploadUncompressed": "31.99G",
        "DataUncompressed": "31.79G",
        "UploadNo": "38",
        "DataRawUncompressed": "34135821228",
        "TotalStorageSize": "19.69G",
        "DataRawSize": "21138502960",
        "UploadRawUncompressed": "34347048996",
        "UploadRawSize": "21172968400",
        "RetainSize": "319k", "RetainNo": "11",
        "UploadSize": "19.72G",
        "RetainRawUncompressed": "775828",
        "Date": "2018-03-01",
        "DestinationID": "",
        "TotalStorageNo": "467",
        "TotalStorageUncompressed": "31.79G",
        "RetainUncompressed": "757k",
        "DataSize": "19.69G",
        "TotalStorageRawUncompressed": "34136597056",
        "RetainRawSize": "327264",
        "TotalStorageRawSize": "21138830224",
        "DataNo": "456"
      },
      {
        "UploadUncompressed": "24.11G",
        "DataUncompressed": "31.79G",
        "UploadNo": "34",
        "DataRawUncompressed": "34135821228",

```



```

"TotalStorageSize": "19.69G",
"DataRawSize": "21138502960",
"UploadRawUncompressed": "25888260644",
"UploadRawSize": "17405569645",
"RetainSize": "319k",
"RetainNo": "11",
"UploadSize": "16.21G",
"RetainRawUncompressed": "775828",
"Date": "2018-03-02",
"DestinationID": "",
"TotalStorageNo": "467",
"TotalStorageUncompressed": "31.79G",
"RetainUncompressed": "757k",
"DataSize": "19.69G",
"TotalStorageRawUncompressed": "34136597056",
"RetainRawSize": "327264",
"TotalStorageRawSize": "21138830224",
"DataNo": "456"
},
{
"UploadUncompressed": "24.11G",
"DataUncompressed": "31.79G",
"UploadNo": "34",
"DataRawUncompressed": "34135821228",
"TotalStorageSize": "19.69G",
"DataRawSize": "21138502960",
"UploadRawUncompressed": "25888260644",
"UploadRawSize": "17405569645",
"RetainSize": "319k",
"RetainNo": "11", "UploadSize": "16.21G",
"RetainRawUncompressed": "775828",
"Date": "2018-03-03",
"DestinationID": "",
"TotalStorageNo": "467",
"TotalStorageUncompressed": "31.79G",
"RetainUncompressed": "757k",
"DataSize": "19.69G",
"TotalStorageRawUncompressed": "34136597056",
"RetainRawSize": "327264",
"TotalStorageRawSize": "21138830224",
"DataNo": "456"
},
{
"UploadUncompressed": "24.11G",
"DataUncompressed": "31.79G",
"UploadNo": "34",
"DataRawUncompressed": "34135821228",
"TotalStorageSize": "19.69G",
"DataRawSize": "21138502960",
"UploadRawUncompressed": "25888260644",
"UploadRawSize": "17405569645",
"RetainSize": "319k",
"RetainNo": "11",
"UploadSize": "16.21G",
"RetainRawUncompressed": "775828",
"Date": "2018-03-04",
"DestinationID": "",
"TotalStorageNo": "467",
"TotalStorageUncompressed": "31.79G",
"RetainUncompressed": "757k",
"DataSize": "19.69G",
"TotalStorageRawUncompressed": "34136597056",
"RetainRawSize": "327264",
"TotalStorageRawSize": "21138830224",
"DataNo": "456"
}
},
"AvgRetainUncompressed": "2.73G",
"AvgTotalStorageRawUncompressed": "34144010722",
"AvgTotalStorageRawSize": "21139974085",
"AvgTotalStorageUncompressed": "31.8G",

```

```
"AvgDataRawUncompressed": "31209153309",  
"AvgRetainNo": "19",  
"AvgUploadSize": "13.77G",  
"AvgRetainRawSize": "2927196734",  
"AvgRetainSize": "2.73G" }  
}
```

#### Example:

##### Input No storage log found

```
{  
"SysUser": "api",  
"SysPwd": "pwd",  
"LoginName": "user",  
"YearMonth": "2018-03"  
}
```

##### Output

```
{  
"Status": "Error",  
"Message": "No storage log found",  
"ExptType": "com.ahsay.obs.core.dbs.c"  
}
```

## 4.1.6 UpdateUserProfile (v1), UpdateUser (v2)

This API updates the information of a user profile.

The related settings can be found on the AhsayCBS web console:

🔗 [Backup / Restore] > [User, Groups & Policies] > [Backup user] > username

### v1 UpdateUserProfile.do

<b>URL:</b>	
	<a href="https://CBS.EXAMPLE.COM/obs/api/json/UpdateUserProfile.do">https://CBS.EXAMPLE.COM/obs/api/json/UpdateUserProfile.do</a>
<b>Deprecated since version:</b>	
	7.15.6.38

### v2 UpdateUser.do

Note: The name of the v1 **UpdateUserProfile.do** API has changed to **UpdateUser.do**.

To facilitate the Quota Management feature, a new version of the UpdateUserProfile.do API (v2 UpdateUser.do) was introduced.

<b>URL:</b>		
	<a href="https://CBS.EXAMPLE.COM/obs/api/json/2/UpdateUser.do">https://CBS.EXAMPLE.COM/obs/api/json/2/UpdateUser.do</a>	
<b>Available since version:</b>		
	9.5	
<b>Parameters:</b>		
Key	Type	Descriptions
<b>SysUser</b>	String	Username of an AhsayCBS System User with Admin or API role
<b>SysPwd</b>	String	Password matching SysUser
<b>LoginName</b>	String	Client user name.
Owner	String	
Alias	String	
Status	String	SUSPENDED Default: ENABLE
Type	String	TRIAL or PAID. Default to TRIAL if not specified.
ClientType	String	ACB or OBM
Password	String	Password of the user account.
Language	String	Language used by the client user.
Notes	String	
QuotaList	JSON object	
HostQuotaEnabled	Boolean	Enable / Disable Client host.
HostQuota	Long	Client host limit.
RunDirectQuotaEnabled	Boolean	
RunDirectQuota	Long	
ModuleSettings	JSON object	Used to assign modules
WindowsEventLogSettings	WindowsEventLogSettings	
Contact	Array	If "AppendContact" is "Y", all contacts in the array will be appended to the contacts.
AppendContact	String	"Y" or "N" to modify an existing contact (retrieve the corresponding keys required with the GetUser.do API)
ChangeContact	String	"Y" or "N" to change and overwrite an existing (retrieve the corresponding keys required with the GetUser.do API)
OldContact	Array	Existing contacts. It is used if "ChangeContact" is "Y"

NewContact	Array	If "ChangeContact" is "Y", all contacts in OldContact will be updated with NewContact
SecuritySettings	JSON object	Parameter available only if global MFA Setting is ON.  Update to PhoneList array is by replacement of whole list.  Note: If modifying the PhoneList, most recent phone number (based on LastSuccessfulLoginInfo "PhoneNumber") cannot be removed by API, due to API validation check. That phone number must be included when updating PhoneList.
QuotaType	String	Quota Type, either TOTAL_QUOTA or PER_DESTINATION_QUOTA
StorageQuota	Long	Total Quota in GB. Value validity examined when used by TOTAL_QUOTA
EnableAUA	boolean	Toggle user's Auto Update Agent setting
<b>JSON Objects:</b>		
<b>ModuleSettings</b>		
<b>Key</b>	<b>Type</b>	<b>Descriptions</b>
MSEExchangeMailboxBackupEnabled	Boolean	Defines whether module MS Exchange Mailbox backup will be enabled
MSEExchangeMailboxQuota	Long	
MSSQLBackupEnabled	Boolean	Defines whether module MS SQL backup will be enabled
MSEExchangeBackupEnabled	Boolean	Defines whether module MS Exchange backup will be enabled
OracleBackupEnabled	Boolean	Defines whether module Oracle backup will be enabled
LotusDominoBackupEnabled	Boolean	Defines whether module Lotus Domino backup will be enabled
LotusNotesBackupEnabled	Boolean	Defines whether module Lotus Notes backup will be enabled
MySQLBackupEnabled	Boolean	Defines whether module MySQL backup will be enabled
InFileDeltaEnabled	Boolean	Defines whether module In-File Delta will be enabled
ShadowCopyEnabled	Boolean	Defines whether module ShadowCopy will be enabled
NasClientEnabled	Boolean	Defines whether module Synology NAS Client will be enabled
QnapEnabled	Boolean	Defines whether module QNAP will be enabled
DeltaMergeEnabled	Boolean	
MSHyperVBackupEnabled	Boolean	Defines whether module MS HyperV backup will be enabled
MSHyperVVMQuota	Long	Defines whether module MS HyperV VM backup will be enabled
MSHyperVVMQuotaType	String	GUESTVM or SOCKET
VMwareBackupEnabled	Boolean	Defines whether module VMWare backup will be enabled
VMwareVMQuota	Long	Defines whether module VMWare VM backup will be enabled
VMwareVMQuotaType	String	GUESTVM or SOCKET
CDPEnabled	Boolean	Defines whether module CDP will be enabled
ShadowProtectBackupEnabled	Boolean	Defines whether module ShadowProtect backup will be enabled
MSWindowsSystemBackupEnabled	Boolean	Defines whether module MS Windows System backup will be enabled
MSWindowsSystemStateBackupEnabled	Boolean	Defines whether module MS Windows System State backup will be enabled
Office365MailEnabled	Boolean	Defines whether module Microsoft 365 Mail backup will be enabled
Office365MailQuota	Long	Note: ACB usertype limited to 2
MobileEnabled	Boolean	Deprecated from v8.5; no new mobile v1 modules can be Enabled for users
MobileV2Enabled	Boolean	Defines whether modules MobileV2 will be enabled
MobileQuota	Long	Deprecated from v8.5
MobileQuotaV2	Long	Fixed at 10 regardless of input value
OpenDirectEnabled	Boolean	Defines whether module OpenDirect will be enabled
OpenDirectQuota	String	
MariaDBBackupEnabled	Boolean	Defines whether module MariaDB backup will be enabled
DeduplicationEnabled	Boolean	Defines whether module Deduplication will be enabled
<b>Contact</b>		
<b>Key</b>	<b>Type</b>	<b>Descriptions</b>
Company	String	
Email	String	
Address	String	
Website	String	
Name	String	
Phone1	String	
Phone2	String	

WindowsEventLogSettings		
Key	Type	Descriptions
Enabled	Boolean	
LogError	Boolean	Log type
LogProfile	Boolean	Log option
LogServices	Boolean	Log option
LogUtilities	Boolean	Log option
LogBackup	Boolean	Log option
LogSoftwareUpdate	Boolean	Log option
LogReport	Boolean	Log option
LogLoginLogout	Boolean	Log option
LogInfo	Boolean	Log type
LogBuy	Boolean	
LogLicense	Boolean	
LogWarn	Boolean	Log type
LogRestore	Boolean	

QuotaList		
Key	Type	Descriptions
Enabled	Boolean	
Quota	Long	Quota of the backup destination, unit in byte. Value validity examined when used by PER_DESTINATION_QUOTA
DestinationKey	String	Key of the backup destination.

UserSuspendSettings		
Key	Type	Descriptions
Enabled	Boolean	
Date	String	Date in Unix time.

SystemSettings		
Key	Type	Descriptions
Enable	Boolean	
PhoneList	Array	
CountryCode	Long	Country code
PhoneNumber	String	SMS phone number
Verified	Boolean	Not Applicable by API. Default value "False"
VerifiedTime	Long	Not Applicable by API
Id	String	Not Applicable by API

Return Values:		
Key	Type	Descriptions
Status	String	"OK" or "Error"
Message	String	Error message, it exists only if status is "Error"
ExptType	String	The type of exception, it exists only if status is "Error"

Example:	
	<b>Input - Update quota setting</b>
	<pre>{   "SysUser": "system",   "SysPwd": "system",   "LoginName": "username",   "QuotaList": [     {       "Enabled": true,       "DestinationKey": "OBS",       "Quota": 73400320     }   ] }</pre>
	<b>Output</b>
	<pre>{   "Status": "OK", }</pre>

Example:	
	<b>Input - Add contacts (ChangeContact (Y))</b>
	<pre>{   "SysUser": "system",   "SysPwd": "system",   "LoginName": "22434",   "ChangeContact": "Y",   "OldContact": [{     "Company": "mikeconsole",     "Email": "mike@example.com",     "Address": "mikehome",     "Website": "www.ahsay.com",     "Name": "mike4",     "Phone1": "123456",     "Phone2": "234567"   }], {     "Company": "mikeconsole2",     "Email": "onconsole@example.com",     "Address": "",     "Website": "",     "Name": "mike2",     "Phone1": "",     "Phone2": ""   }, {     "Company": "sdfdsafdsf",     "Email": "aasdf@example.com",     "Address": "fdsadfsa",     "Website": "www.ahsay.com",     "Name": "mikemike4",     "Phone1": "12345",     "Phone2": "34567"   }, {     "Company": "New Company 2",     "Email": "NewName2@NewName.com",     "Address": "New API2 Road",     "Website": "www.newwebsite2.com",     "Name": "NewName2",     "Phone1": "99887766",     "Phone2": "66778899"   }   ]},   "NewContact": [{     "Company": "mikeconsole",     "Email": "mike@example.com",     "Address": "mikehome",     "Website": "www.ahsay.com",     "Name": "mike4",   }   ] }</pre>

	<pre> "Phone1": "123456", "Phone2": "234567" }, { "Company": "mikeconsole2", "Email": "onconsole@example.com", "Address": "", "Website": "", "Name": "mike2", "Phone1": "", "Phone2": "" }, { "Company": "sdafdsafsd", "Email": "aasdf@example.com", "Address": "fdsadfsa", "Website": "www.ahsay.com", "Name": "mikemike4", "Phone1": "12345", "Phone2": "34567" }, { "Company": "New Contact", "Email": "NewContact@NewName.com", "Address": "New ContactRoad", "Website": "www.newcontact.com", "Name": "NewContact", "Phone1": "99998888", "Phone2": "66667777" }, { "Company": "New Company 2", "Email": "NewName2@NewName.com", "Address": "New API2 Road", "Website": "www.newwebsite2.com", "Name": "NewName2", "Phone1": "99887766", "Phone2": "66778899" } ] } </pre>
	<b>Output</b>
	<pre> The contact with email "NewContact@NewName.com" is added. { "Status": "OK", } </pre>

**Example:****Input - Update contact (ChangeContact (Y))**

```
{
  "SysUser": "system",
  "SysPwd": "system",
  "LoginName": "22434",
  "ChangeContact": "Y",
  "OldContact": [{
    "Company": "mikeconsole",
    "Email": "mike@example.com",
    "Address": "mikehome",
    "Website": "www.ahsay.com",
    "Name": "mike4",
    "Phone1": "123456",
    "Phone2": "234567"
  }],
  "NewContact": [{
    "Company": "mikeconsole-update",
    "Email": "mike@email.com",
    "Address": "mikehome-update",
    "Website": "www.ahsay-update.com",
    "Name": "mike4-update",
    "Phone1": "654321",
    "Phone2": "765432"
  }]
}
```

**Output**

```
Output: The contact with email "mike@email.com" is updated.
{
  "Status": "OK",
}
```

**Example:****Input - Delete contact (ChangeContact (Y))**

```
{
  "SysUser": "system",
  "SysPwd": "system",
  "LoginName": "22434",
  "ChangeContact": "Y",
  "OldContact": [{
    "Company": "mikeconsole",
    "Email": "mike@example.com",
    "Address": "mikehome",
    "Website": "www.ahsay.com",
    "Name": "mike4",
    "Phone1": "123456",
    "Phone2": "234567"
  }], {
    "Company": "mikeconsole2",
    "Email": "onconsole@example.com",
    "Address": "",
    "Website": "",
    "Name": "mike2",
    "Phone1": "",
    "Phone2": ""
  }, {
    "Company": "sdfdsafdsf",
    "Email": "aasdf@example.com",
    "Address": "fdsadfsa",
    "Website": "www.ahsay.com",
    "Name": "mikemike4",
    "Phone1": "12345",
    "Phone2": "34567"
  }, {
    "Company": "New Company 2",
  }
```



	<pre> "Email": "NewName2@NewName.com", "Address": "New API2 Road", "Website": "www.newwebsite2.com", "Name": "NewName2", "Phone1": "99887766", "Phone2": "66778899" }, { "Company": "New API Company - Change", "Email": "NewName@NewName.com", "Address": "New API Change Road", "Website": "www.newwebsite-change.com", "Name": "NewNameChange", "Phone1": "55443322", "Phone2": "66554433" }}, "NewContact": [{ "Company": "mikeconsole", "Email": "mike@example.com", "Address": "mikehome", "Website": "www.ahsay.com", "Name": "mike4", "Phone1": "123456", "Phone2": "234567" }, { "Company": "mikeconsole2", "Email": "onconsole@example.com", "Address": "", "Website": "", "Name": "mike2", "Phone1": "", "Phone2": "" }, { "Company": "sdafdsafsd", "Email": "aasdf@example.com", "Address": "fdsadfsa", "Website": "www.ahsay.com", "Name": "mikemike4", "Phone1": "12345", "Phone2": "34567" }, { "Company": "New Company 2", "Email": "NewName2@NewName.com", "Address": "New API2 Road", "Website": "www.newwebsite2.com", "Name": "NewName2", "Phone1": "99887766", "Phone2": "66778899" }} } </pre>
	<p><b>Output</b></p>
	<p>The contact with email "NewName@NewName.com" is deleted.</p> <pre> { "Status": "OK", } </pre>

Example:	
	<b>Input - Append contacts with duplication (AppendContact (Y))</b>
	<pre>{   "SysUser": "system",   "SysPwd": "system",   "LoginName": "22434",   "AppendContact": "Y",   "Contact": [{     "Company": "New Company",     "Email": "NewName@NewName.com",     "Address": "New API Road",     "Website": "www.newwebsite.com",     "Name": "NewName",     "Phone1": "22334455",     "Phone2": "33445566"   }] }</pre>
	<b>Output</b>
	<pre>{   "Status": "Error",   "Message": "[UpdateUserProfile.checkDuplicatedEmail] Contact already exists &lt;NewName@NewName.com&gt;",   "ExptType": "com.ahsay.obs.core.dbs.DbsException", }</pre>

Example:	
	<b>Input - Append contacts without duplication (AppendContact (Y))</b>
	<pre>{   "SysUser": "system",   "SysPwd": "system",   "LoginName": "22434",   "AppendContact": "Y",   "Contact": [{     "Company": "New Company 2",     "Email": "NewName2@NewName.com",     "Address": "New API2 Road",     "Website": "www.newwebsite2.com",     "Name": "NewName2",     "Phone1": "99887766",     "Phone2": "66778899"   }] }</pre>
	<b>Output</b>
	<pre>{   "Status": "OK", }</pre>

Example:	
	<b>Input - Delete all contacts (AppendContact (N))</b>
	<pre>{   "SysUser": "system",   "SysPwd": "system",   "LoginName": "22434",   "AppendContact": "N",   "Contact": [{     "Company": "append contact company",     "Email": "append-contact@email.com",     "Address": "append contact road",     "Website": "www.append-contact.com",     "Name": "replace-contact",     "Phone1": "11112222",     "Phone2": "2223333"   }] }</pre>
	<b>Output</b>
	<pre>{   "Status": "OK", }</pre>

Example:	
	<b>Input - Replace contacts (AppendContact (N))</b>
	<pre>{   "SysUser": "system",   "SysPwd": "system",   "LoginName": "22434",   "AppendContact": "N",   "Contact": [{     "Company": "append contact company",     "Email": "append-contact@email.com",     "Address": "append contact road",     "Website": "www.append-contact.com",     "Name": "replace-contact",     "Phone1": "11112222",     "Phone2": "2223333"   }] }</pre>
	<b>Output</b>
	<p>Only the contact with email "append-contact@email.com" is found in the contact list</p> <pre>{   "Status": "OK", }</pre>

Example:	
	<b>Input - Change module settings</b>
	<pre>{   "SysUser": "api_user",   "SysPwd": "qWeRtY123456!@#\$\$%",   "LoginName": "acbuser",   "ModuleSettings": {     "ShadowCopyEnabled": true,     "NasClientEnabled": true,     "DeduplicationEnabled": false   } }</pre>
	<b>Output</b>
	<pre>{ "Status": "OK" }</pre>

Example:	
	<b>Input - Change subscription type to PAID and disable suspend at option</b>
	<pre>{   "SysUser":"system",   "SysPwd":"system",   "LoginName":"username",   "Type":"PAID",   "UserSuspendSettings": {     "Enabled":"false",     "Date": 2106396800000,   }, }</pre>
	<b>Output</b>
	<pre>{   "Status": "OK", }</pre>

Example:	
	<b>Input – Add or Change MFA Phone Number or Enable</b>
	<pre>{   "SysUser":"system",   "SysPwd":"system",   "LoginName":"username",   "SecuritySettings": {     "PhoneList": [       {         "PhoneNumber": "2128675309",         "CountryCode": 1       },       {         "PhoneNumber": "8085551234",         "CountryCode": 1       }     ],     "Enable": true   } }</pre>
	<b>Output</b>
	<pre>{   "Status": "OK", }</pre>

Example:	
	<b>Input - Change MobileV2Enabled module settings</b>
	<pre>{   "SysUser":"api_user",   "SysPwd":"qWeRTY123456!@#%\$",   "LoginName":"user",   "ModuleSettings": [     {       "MobileQuota":10,       "MobileEnabled":true,       "MobileV2Enabled":true,     }   ] }</pre>
	<b>Output</b>
	<pre>{   "Status": "OK", }</pre>

**Example:****Input – Setting Per Destination Quota of 50GB**

```
{
  "SysUser": "api_user",
  "SysPwd": "qWeRtY123456!@#$$%",
  "LoginName": "user",
  "QuotaType": "PER_DESTINATION_QUOTA",
  "QuotaList": [
    {
      "DestinationKey": "OBS",
      "Quota": 53687091201,
      "DestinationName": "AhsayCBS",
      "Enabled": true
    }
  ]
}
```

**Output**

```
{ "Status": "OK" }
```

**Example:****Input – Setting Total Quota of 75GB**

```
{
  "SysUser": "api_user",
  "SysPwd": "qWeRtY123456!@#$$%",
  "LoginName": "user",
  "QuotaType": "TOTAL_QUOTA",
  "StorageQuota": 75,
  "QuotaList": [
    {
      "DestinationKey": "OBS",
      "Quota": 0,
      "DestinationName": "AhsayCBS",
      "Enabled": true
    }
  ]
}
```

**Output**

```
{ "Status": "OK" }
```

## 4.1.7 AddContact

This API add a new contact information to a user.

The related settings can be found on the AhsayCBS web console:

- [Backup / Restore] > [User, Groups & Policies] > [Backup user] > username > [User Profile] > [Contact]

<b>URL:</b>			
<a href="https://CBS.EXAMPLE.COM/obs/api/json/AddContact.do">https://CBS.EXAMPLE.COM/obs/api/json/AddContact.do</a>			
<b>Available since version:</b>			
9.1			
<b>Parameters:</b>			
Key	Type	Descriptions	
SysUser	String	Username of an AhsayCBS System User with Admin or API role	
SysPwd	String	Password matching SysUser	
LoginName	String	Client user name	
Owner	String		
NewContact	JSON Object	Contact	
<b>Return Values:</b>			
Key	Type	Descriptions	
Status	String	"OK" or "Error"	
Message	String	Error message, it exists only if status is "Error"	
ExptType	String	The type of exception, it exists only if status is "Error"	
<b>JSON Objects:</b>			
<b>Contact</b>			
Key	Type	Descriptions	
Name	String		
Email	String	Example: <i>name@domain.com</i>	
<b>Example:</b>			
<b>Input</b>			
<pre>{   "SysUser": "SysUser",   "SysPwd": "SysPwd",   "LoginName": "User",   "NewContact": {"Name": "Name1", "Email": "test1@test.mail"} }</pre>			
<b>Output</b>			
<pre>{   "Status": "OK" }</pre>			
<b>Output 2 duplicate contact name</b>			
<pre>{   "Status": "Error",   "Message": "Contact name is already in use.",   "ExptType": "com.ahsay.obs.core.dbs.c" }</pre>			

## 4.1.8 AddUser (v1,v2)

This API can be used to add new backup user.

The related settings can be found on the AhsayCBS web console:

• [Backup / Restore] > [User, Groups & Policies] > [Backup user]

### v1 AddUser.do

<b>URL:</b>	
	<a href="https://CBS.EXAMPLE.COM/obs/api/json/AddUser.do">https://CBS.EXAMPLE.COM/obs/api/json/AddUser.do</a>
<b>Deprecated since version:</b>	
	7.15.6.38

### v2 AddUser.do

To facilitate the Quota Management feature, a new version of the AddUser.do API (v2 AddUser.do) was introduced.

<b>URL:</b>		
	<a href="https://CBS.EXAMPLE.COM/obs/api/json/2/AddUser.do">https://CBS.EXAMPLE.COM/obs/api/json/2/AddUser.do</a>	
<b>Available since version:</b>		
	9.5	
<b>Parameters:</b>		
Key	Type	Descriptions
SysUser	String	Username of an AhsayCBS System User with Admin or API role
SysPwd	String	Password matching SysUser
LoginName	String	Client user name
Owner	String	
Password	String	
Email	String	Contact Email
QuotaList	JSON Object ARRAY	
Status	String	If this value is "SUSPENDED", the user is suspended. Otherwise, the user is enabled.
ClientType	String	ACB or OBM
Type	String	TRIAL or PAID. Default to TRIAL if not specified
UserHome	String	Default to the first user home on your user home configuration if not specified.  You can find the User home configuration in your CBS console: [Backup / Restore] > [Basic] > [User Home]
MobileQuota	Long	Deprecated from v8.5, old v1 AhsayMOB quota
MobileV2Quota	Long	Fixed at 10 regardless of input
ExchangeMailboxQuota	Long	Exchange mail level backup quota  Mandatory if the corresponding add on module is enabled (e.g. "ExchangeMailboxQuota" is mandatory if "EnableExchangeMailbox" is set to true)
MsVmQuota	Long	Hyper-V VM backup quota  Mandatory if the corresponding add on module is enabled (e.g. "MsVmQuota" is mandatory if "EnableMsVm" is set to true)

MsVmQuotaType	String	The value can be any one of the following:  GUESTVM SOCKET  Default value is GUESTVM if not provided
VMwareQuota	Long	VMware VM backup quota  Mandatory if the corresponding add on module is enabled (e.g. "VmwareQuota" is mandatory if "EnableVMware" is set to true)
VMwareQuotaType	String	The value can be any one of the following:  GUESTVM SOCKET  Default value is GUESTVM if not provided
RunDirectQuotaEnabled	Boolean	
RunDirectQuota	Long	Run Direct maximum VM quota  Mandatory if the RunDirect is enabled (e.g. "RunDirectQuota" is mandatory if "RunDirectQuotaEnabled" is set to true)
EnableOffice365Mail	Boolean	
Office365MailQuota	Long	Microsoft 365 mail backup quota  Mandatory if the corresponding add on module is enabled (e.g. "Office365MailQuota" is mandatory if "EnableOffice365Mail" is set to true)
Language	String	Language used by the user
DisplayName	String	Alias and Contact name. You are highly recommended to fill this.
Notes	String	Account profile Notes field
HostQuotaEnabled	Boolean	Storage quota, Unit in bytes.
HostQuota	Long	Enable or disable Client host quota
EnableMobile	Boolean	AhsayMOB module -- Deprecated from v8.5
EnableMobileV2	Boolean	Enable or disable AhsayMobile module (when enabled, "MobileV2Quota" fixed value at 10)
EnableExchangeMailbox	Boolean	Enable or disable Exchange Mailbox module
EnableMSSQL	Boolean	Enable or disable MS SQL module
EnableMSExchange	Boolean	Enable or disable MS Exchange module
EnableOracle	Boolean	Enable or disable Oracle module
EnableLotusDomino	Boolean	Enable or disable Lotus Domino module
EnableLotusNotes	Boolean	Enable or disable Lotus Notes module
EnableMySQL	Boolean	Enable or disable MySQL module
EnableInFileDelta	Boolean	Enable or disable In-File Delta module (pre-v9)
EnableShadowCopy	Boolean	Enable or disable Shadow Copy module
EnableNASClient	Boolean	Enable or disable Synology module
EnableQnap	Boolean	Enable or disable QNAP module
EnableMsVm	Boolean	Enable or disable HyperV module
EnableVMware	Boolean	Enable or disable VMware module
EnableCDP	Boolean	Enable or disable CDP module
EnableShadowProtectBareMetal	Boolean	Enable or disable ShadowProtect module
EnableWinServer2008BareMetal	Boolean	Enable or disable Windows system back up
EnableMsWinSysState	Boolean	Enable or disable Windows system state backup
EnableOpenDirect	Boolean	Enable or disable OpenDirect
OpenDirectQuota	String	
EnableMariaDB	Boolean	Enable or disable MariaDB module
EnableDeduplication	Boolean	Enable or disable Deduplication module
QuotaType	String	Quota Type, either TOTAL_QUOTA or PER_DESTINATION_QUOTA, default to PER_DESTINATION_QUOTA, if not specified
StorageQuota	Long	Default to 100, if not specified. Unit in GB
QuotaList	JSON Object Array	Mandatory if QuotaType is PER_DESTINATION_QUOTA or if QuotaType is not specified
EnableAUA	boolean	Toggle user's Auto Update Agent setting
<b>QuotaList [ ]</b>		
<b>Key</b>	<b>Type</b>	<b>Descriptions</b>
<b>Enabled</b>	<b>Boolean</b>	<b>true / false</b>
<b>DestinationKey</b>	String	ID of the predefined destination, or "OBS" for quota on AhsayCBS
Quota	Long	Unit in bytes



Return Values:		
Key	Type	Descriptions
Status	String	"OK" or "Error"
Message	String	Error message, it exists only if status is "Error"
ExptType	String	The type of exception, it exists only if status is "Error"

Example:	
<b>Input - Add OBM paid user with AhsayCBS quota 50 GB and predefined destination quota 50 GB</b>	
	<pre>{   "SysUser": "system",   "SysPwd": "qWeRtY123456!@#%\$",   "LoginName": "username",   "Password": "123456",   "Email": "email_address@server.com",   "Type": "Paid",   "Status": "ENABLE",   "ClientType": "OBM",   "QuotaList": [     {       "Enabled": true,       "DestinationKey": "OBS",       "Quota": 53687091200     },     {       "Enabled": true,       "DestinationKey": "-1526366187317",       "Quota": 53687091200     }   ] }</pre>
<b>Output</b>	<pre>{"Status": "OK"}</pre>
<b>Output if destination is not visible to user</b>	
	<pre>{   "Status": "Error",   "Destination '-1526366187317' is not visible to user 'username' according to policy's [Destinations Visible to Users] settings.",   "ExptType": "java.lang.Exception" }</pre>
<b>Output if the Enable parameter is missing from a destination in the QuotaList</b>	
	<pre>{   "Status": "Error",   "Message": "Value 'Enabled' is missing in item '-1526366187317' of 'QuotaList'.",   "ExptType": "java.lang.Exception" }</pre>
<b>Output if the Enable parameter is invalid for a destination in the QuotaList</b>	
	<pre>{   "Status": "Error",   "Message": "Invalid 'Enabled' in item '-1526366187317' of 'QuotaList'.",   "ExptType": "java.lang.Exception" }</pre>
<b>Output if a destination is duplicated in the QuotaList</b>	
	<pre>{   "Status": "Error",   "Message": "Duplicated DestinationKey (OBS) are not allowed in QuotaList.",   "ExptType": "java.lang.Exception" }</pre>
<b>Output if the Quota value for a destination is invalid (e.g. negative number)</b>	
	<pre>{   "Status": "Error",   "Message": "Invalid value 'Quota' for item '-1526366187317' of 'QuotaList'. Error: Must be a positive number.",   "ExptType": "java.lang.Exception" }</pre>

	}
	<b>Output if the Quota value for a destination is invalid</b>
	<pre>{   "Status": "Error",   "Message": "Invalid value 'Quota' for item '-1526366187317' of 'QuotaList'. Error: JSONObject[\"Quota\"] is not a long.",   "ExptType": "java.lang.Exception" }</pre>

	<b>Example:</b>
	<b>Input - Add OBM paid user with AhsayCBS quota 50 GB and Total Quota 75 GB</b>
	<pre>{   "SysUser": "system",   "SysPwd": "qWeRtY123456l@#\$%",   "LoginName": "username",   "Password": "123456",   "Email": "email_address@server.com",   "Type": "Paid",   "Status": "ENABLE",   "ClientType": "OBM",   "QuotaType": "TOTAL_QUOTA",   "StorageQuota": 75,   "QuotaList": [     {       "DestinationKey": "OBS",       "Quota": 53687091200,       "DestinationName": "AhsayCBS",       "Enabled": true     }   ] }</pre>
	<b>Output</b>
	<pre>{"Status": "OK"}</pre>

	<b>Example:</b>
	<b>Input – Invalid Quota value specified</b>
	<pre>{   "SysUser": "system",   "SysPwd": "qWeRtY123456l@#\$%",   "LoginName": "username",   "Password": "123456",   "Email": "email_address@server.com",   "Type": "Paid",   "Status": "ENABLE",   "ClientType": "OBM",   "QuotaType": "PER_DESTINATION_QUOTA",   "QuotaList": [     {       "DestinationKey": "OBS",       "Quota": -1,       "DestinationName": "AhsayCBS",       "Enabled": true     }   ] }</pre>
	<b>Output</b>
	<pre>{   "Status": "Error",   "Message": "Invalid value 'Quota' for item 'OBS' of 'QuotaList'. Error: Must be a positive number.",   "ExptType": "java.lang.Exception" }</pre>

## 4.1.9 GetUser (v1,v2)

This API can be used to retrieve information of a backup user.

The related settings can be found on the AhsayCBS web console:

🔗 [Backup / Restore] > [User, Groups & Policies] > [Backup user] > Choose a user

### v1 GetUser.do

<b>URL:</b>	
	<a href="https://CBS.EXAMPLE.COM/obs/api/json/GetUser.do">https://CBS.EXAMPLE.COM/obs/api/json/GetUser.do</a>
<b>Deprecated since version:</b>	
	7.15.6.38

### v2 GetUser.do

To facilitate the Quota Management feature, a new version of the GetUser.do API (v2 GetUser.do) was introduced.

<b>URL:</b>		
	<a href="https://CBS.EXAMPLE.COM/obs/api/json/2/GetUser.do">https://CBS.EXAMPLE.COM/obs/api/json/2/GetUser.do</a>	
<b>Available since version:</b>		
	9.5	
<b>Parameters:</b>		
Key	Type	Descriptions
SysUser	String	Username of an AhsayCBS System User with Admin, API, or RO API role
SysPwd	String	Password matching SysUser
LoginName	String	Client user name
Owner	String	
<b>Return Values:</b>		
Key	Type	Descriptions
Status	String	"OK" or "Error"
Data	JSON Object	
Message	String	Error message, it exists only if status is "Error"
ExptType	String	The type of exception, it exists only if status is "Error"
<b>JSON Objects:</b>		
<b>User</b>		
Key	Type	Descriptions
AccessToken	String	Client API token that used by OBC, should have no use to customer
AdGroup	String	Legacy v6 Advertisement group (not used by CBS)
AdGroups	Array	Legacy v6 Advertisement groups (not used by CBS)
Alias	String	Alias
BackupSetIdList	Array	ID number of each BackupSet
Bandwidth	Long	
ClientRunVersion	String	
ClientType	String	ACB or OBM
ComputerNameDirList	Array	Path to %USERHOME%/db/ClientLogs/
ContactList	JSON Object ARRAY	
DoubleEncodedName	String	

EmailReportSettings	JSON Object	
EncodedName	String	Encoded User Name
File	String	Path to users.xml
ForgotPAsswordSettings	JSON Object	
FullName	String	For legacy v6 backup sets. The value is only set with the value of "LongLoginName" for get profile request received from Backup Client
GroupPolicySettings	JSON Object	
HashedPassword	Boolean	Legacy, unused by CBS
HomeDir	String	User Home
HostCount	Integer	Current client host limit in use
HostInfo	JSON Object	Number of CPU in client computer of each Run on Client BackupSet and Owner of each Run on Client BackupSet
Hostname	String	CBS server host name
HostQuota	Long	Client host limit
HostQuotaEnabled	Boolean	
HostSet	JSON Object	
Id	Long	Millisecond time format
ImportDate	Long	Millisecond time format (0 = Not imported user)
Language	String	
LastClientLoginTime	Long	Millisecond time format
LastLoginTime	Long	Millisecond time format
LastShowingLicViolationTime	Long	
LastSuccessfulLoginInfo	JSON Object	Info about the successful login by the user including IP Address, application & time
LdapSettings	JSON Object	
Locked	Boolean	
LockedByMFA	Boolean	Whether account is locked due too many MFA failure by wrong passcode
LongLoginName	String	If user is owned by Sub-Admin the response will include the Username appended with Sub-Admin ID number (example, JohnDoe#12345)
MailboxUsage	Integer	
ModuleSettings	JSON Object	
ModulesSettings	JSON Object	
MoveUserHomeRecord	JSON Object	Record for moving User Home
Name	String	User name
NewBSetName	String	Backup Set name when Default Backup Set Name policy setting is disabled
Notes	String	
OpenDirectUsageCount	Integer	
Owner	String	
Owner	String	
Password	String	Hashed password
PasswordHistory	JSON Object	
PreV7	Boolean	
ProxySettings	JSON Object	
QuotaList	JSON Object (Array)	
ReadOnly	Boolean	Unused
RegistrationDate	Long	Timestamp of registration date
RegistrationDate	Long	Timestamp in milliseconds time format
RoutineJobsSetting	JSON Object	
RunDirectQuota	Integer	
RunDirectQuotaEnabled	Boolean	
SavePassword	Boolean	
SecurityIdentifier	String	For client to handle Schedule/CDP/Reminder in Windows
SecuritySettings	JSON Object	V8.3 SecuritySetting Entity of the backup user including the phone list, whether individual MFA is enabled or not, etc.
ServerSettings	JSON Object	Settings for returning to backup client only
SoftwareUpdateSettings	JSON Object	
Status	String	Suspended or Enable
SuspendPaidUserDate	String	Suspend Date for Paid/Trial User in YYYYMMDD
Timezone	String	Refer to Appendix for timezone string / ID
TopDir	String	Path to User Home
TotalStatistics	JSON Object	
TrialDays	Long	
Type	String	TRIAL or PAID. Default to TRIAL if not specified

Updated	Boolean	Whether user was updated in cache but not yet saved to users.xml
UploadEncryptionKey	Boolean	
UserHome	String	User Home path
Userld	String	Client user name
UserLockSettings	JSON Object	
UserSuspendSettings	JSON Object	
V6File	String	Path to v6 Profile.xml (regardless if CBS created user, or import)
WindowsEventLogSettings	JSON Object	
QuotaType	String	Quota Type, either TOTAL_QUOTA or PER_DESTINATION_QUOTA
StorageQuota	Long	Total Quota in GB
EnableAUA	boolean	Toggle user's Auto Update Agent setting

#### QuotaList [ ]

Key	Type	Descriptions
Enabled	Boolean	true / false
DestinationName	String	Name of the backup destination
DestinationKey	String	ID of the backup destination, or "OBS" for quota on AhsayCBS
Quota	Long	

#### ContactList [ ]

Key	Type	Descriptions
Id	String	Unused
ReadOnly	Boolean	Unused
Company	String	
Email	String	Example: <i>name@domain.com</i>
Address	String	Street address
EmailCertificate	String	
Website	String	
Name	String	
Phone1	String	
Phone2	String	
EncryptEmail	Boolean	

#### EmailReportSettings

Key	Type	Descriptions
Id	String	Unused
ReadOnly	Boolean	Unused
SendBkpRpt	Boolean	
Usage	Long	
SmtplAuthUser	String	
ReportSenderEmail	String	
SendBkpRptMode	String	
SmtplHostName	String	
MissedBkpInterval	Long	
SmtplPort	String	
SendMissedBkpRpt	Boolean	
SendStorageAlert	Boolean	
SmtplAuthPwd	String	
Email	String	
Enabled	Boolean	

#### ForgetPasswordSettings

Key	Type	Descriptions
Id	String	Unused
ReadOnly	Boolean	Unused
Token	String	Unused
RequestTime	Long	
ResetTime	Long	

GroupPolicySetting		
Key	Type	Descriptions
Id	String	Unused
ReadOnly	Boolean	Unused
UserGroupIDList	Array	Assigned User Group(s) ID
ExcludeNetworkShare	Boolean	Legacy. v6 Policy group option, not available to update/use in CBS
GroupQuota	Integer/Long	
UsedGroupQuota	Integer/Long	
FileSizeLimit	Long	
HostInfo		
Key	Type	Descriptions
Hosts	Array	CPU Socket Num = Integer Hostname = String
HostSet		
Key	Type	Descriptions
"string": "string"	String	Contains hostname of device installed with client. Example: "" = no client agent Example: "mypc": "mypc" = client installed on host <i>mypc</i>
LastSuccessfulLoginInfo		
Key	Type	Descriptions
Type	String	OS + Browser, or Client Type
PhoneNumber	Long	If MFA
IpAddress	String	IP
Time	Long	Timestamp in millisecond time format
Id	Long	Timestamp in millisecond time format (Auto generate)
LdapSettings		
Key	Type	Descriptions
Id	String	Unused
ReadOnly	Boolean	Unused
LdapUser	Boolean	
LastDeleteTime	Long	
LastDisableTime	Long	
FirstAuthFailureTime	Long	
ModuleSettings		
Key	Type	Descriptions
Id	String	Unused
ReadOnly	Boolean	Unused
CDPEnabled	Boolean	Is feature enabled
DeduplicationEnabled	Boolean	Is feature enabled
DeltaMergeEnabled	Boolean	Is feature enabled
InFileDeltaEnabled	Boolean	Is feature enabled
LotusDominoBackupEnabled	Boolean	Is feature enabled
LotusNotesBackupEnabled	Boolean	Is feature enabled
MariaDBBackupEnabled	Boolean	Is feature enabled
MobileEnabled	Boolean	Is AhsayMOB enabled (deprecated v8.5+)
MobileQuota	Long	Quota value for AhsayMOB (deprecated v8.5+)
MobileV2Enabled	Boolean	Is AhsayMobile feature enabled
MobileV2Quota	Long	Value fixed at 10 when MobileV2Enabled=true
MSEExchangeBackupEnabled	Boolean	Is feature enabled
MSEExchangeDAGServerQuota	Long	Quota value
MSEExchangeMailboxBackupEnabled	Boolean	Is Microsoft Exchange Mailbox feature enabled
MSEXMailboxQuota	Long	Quota value for Microsoft Exchange Mailbox module
MSHyperVBackupEnabled	Boolean	Is feature enabled
MSHyperVVMQuota	Long	Quota value

	MSHyperVVMQuotaType	String	Per GuestVM or Per Socket
	MSSQLBackupEnabled	Boolean	Is feature enabled
	MSWindowsSystemBackupEnabled	Boolean	Is feature enabled
	MSWindowsSystemStateBackupEnabled	Boolean	Is feature enabled
	MySQLBackupEnabled	Boolean	Is feature enabled
	NasClientEnabled	Boolean	Is Synology NAS feature enabled
	Office365MailEnabled	Boolean	Is feature enabled
	Office365MailQuota	Long	Quota value
	OpenDirectEnbaled	Boolean	Is feature enabled
	OpenDirectQuota	Long	Quota value
	OracleBackupEnabled	Boolean	Is feature enabled
	QnapEnabled	Boolean	Is QNAP NAS feature enabled
	ShadowCopyEnabled	Boolean	Is feature enabled
	ShadowProtectBackupEnabled	Boolean	Is feature enabled
	VMwareBackupEnabled	Boolean	Is feature enabled
	VMwareVMQuota	Long	Quota value
	VMwareVMQuotaType	String	Per GuestVM or Per Socket
<b>PasswordHistory</b>			
	<b>Key</b>	<b>Type</b>	<b>Descriptions</b>
	ReadOnly	Boolean	Unused
	PasswordLastModifiedTime	Long	
	HistoryList	Array	
<b>MoveUserHomeRecord</b>			
	<b>Key</b>	<b>Type</b>	<b>Descriptions</b>
	Id	String	Unused
	ReadOnly	Boolean	Unused
	Dest	String	Destination User Home path
	StartTime	Long	Millisecond time format
	Source	String	Source User Home path
<b>ProxySettings</b>			
	<b>Key</b>	<b>Type</b>	<b>Descriptions</b>
	Id	String	Unused
	ReadOnly	Boolean	Unused
	Type	String	
	Username	String	
	Port	String	
	Enabled	Boolean	
	Host	String	
	Password	String	
<b>RoutineJobSettings</b>			
	<b>Key</b>	<b>Type</b>	<b>Descriptions</b>
	Id	String	Unused
	ReadOnly	Boolean	Unused
	QuotaRemindPercentage	Long	
	InactiveReportLastSentTime	Long	
<b>SecuritySettings</b>			
	<b>Key</b>	<b>Type</b>	<b>Descriptions</b>
	UserLockSettings	Object	
	Id	String	
	LastFailureTime	Long	
	LockedTime	Long	
	LoginFailureCount	Long	
	PhoneList	Array	
	Id	Long	
	Verified	Boolean	
	VerifiedTime	Long	
	PhoneNumber	Long	
	CountryCode	Long	

Enable	Boolean	
Id	String	Unused
SendLimitSettings	Object	
Id	String	
LastSendTime	Long	
SendCount	Integer	
RecoverySettings	Object	
Id	String	
Token	String	
ExpiryTime	Long	
<b>TotalStatistics</b>		
Key	Type	Descriptions
RetentionAreaUncompressedSize	Long	
DataAreaFileCount	Integer	
DataAreaUncompressedSize	Long	
DataAreaCompressedSize	Long	
RetentionAreaCompressedSize	Long	
RetentionAreaFileCount	Integer	
<b>UserLockSettings</b>		
Key	Type	Descriptions
Id	String	Unused
LastFailureTime	Long	
LockedTime	Long	
LoginFailureCount	Integer	
<b>UserSuspendSettings</b>		
Key	Type	Descriptions
Id	String	Unused
ReadOnly	Boolean	Unused
Enabled	Boolean	
Date	Long	Timestamp in millisecond time format
<b>WindowsEventLogSettings</b>		
Key	Type	Descriptions
Enabled	Boolean	
LogProfile	Boolean	
LogServices	Boolean	
LogUtilities	Boolean	
LogBackup	Boolean	
LogError	Boolean	
LogSoftwareUpdate	Boolean	
LogReport	Boolean	
LogLoginLogout	Boolean	
LogInfo	Boolean	
LogBuy	Boolean	
LogLicense	Boolean	
LogWarn	Boolean	
LogRestore	Boolean	
Id	String	Unused
ReadOnly	Boolean	Unused



## Example:

### Input

```
{
  "SysUser": "api_user",
  "SysPwd": "qWeRtY123456!@$%",
  "LoginName": "username"
}
```

### Output

```
{
  "Status": "OK",
  "Data": {
    "ReadOnly": false,
    "Updated": false,
    "ProxySettings": {
      "ReadOnly": false,
      "Enabled": false,
      "Port": "",
      "Host": "",
      "Type": "",
      "Password": "",
      "Username": "",
      "Id": ""
    },
    "ComputerNameDirList": [
      "/usr/local/cbs_7_12.4/user/opendirect/db/ClientLogs/00-50-56-C0-00-01-Administrator"
    ],
    "QuotaList": [
      {
        "Enabled": true,
        "Quota": 53687091200,
        "DestinationKey": "GDrive#16179501659537152591"
      },
      {
        "Enabled": true,
        "Quota": 53687091200,
        "DestinationName": "AhsayCBS",
        "DestinationKey": "OBS"
      },
      {
        "Enabled": true,
        "Quota": 53687091200,
        "DestinationName": "Predefine 1",
        "DestinationKey": "-1526366187317"
      },
      {
        "Enabled": false,
        "Quota": 0,
        "DestinationName": "AhsayCBS",
        "DestinationKey": "-1518496023533"
      }
    ]
  },
  "PreV7": false,
  "HashedPassword": true,
  "Dagbset": [],
  "LdapSettings": {
    "ReadOnly": false,
    "LastDisableTime": -1,
    "FirstAuthFailureTime": -1,
    "Id": "",
    "LdapUser": false,
    "LastDeleteTime": -1
  },
  "BsetOwnerCount": 1,
  "Quota": 1073741824,
  "SavePassword": false,
  "DoubleEncodedName": "opendirect",
  "SimpleQuotaSize": 1073741824,
  "SecurityIdentifier": "S-1-5-21-2527513556-2540860317-3670937648-500",
}
```

```

"Timezone": "1097",
"NewBSetName": "BackupSet-1",
"Bandwidth": 0,
"Office365MailQuota": 0,
"ImportDate": 0,
"ForgotPasswordSettings": {
  "ReadOnly": false,
  "Id": "",
  "Token": "",
  "RequestTime": -1,
  "ResetTime": -1
},
"AccessToken": "D4A0E4D832B74E9694C9B83012AB1243C842E0F4E6CC4947A7B7A7326FF509F6",
"SuspendPaidUserData": "20170716",
"HostQuota": 1,
"HostCount": 1,
"GroupPolicySettings": {
  "ReadOnly": false,
  "GroupQuota": 0,
  "UsedGroupQuota": 0,
  "FileSizeLimit": 0,
  "Id": "",
  "UserGroupIDList": [
    "1"
  ],
  "ExcludeNetworkShare": false,
},
"Notes": "",
"HostCount": 1,
"RegistrationDate": 1497578979897,
"ClientRunVersion": "7.12.4.0",
"UserLockSettings": {
  "ReadOnly": false,
  "LoginFailureCount": 0,
  "LastFailureTime": -1,
  "Id": "",
  "LockedTime": -1,
},
"EmailReportSettings": {
  "ReadOnly": false,
  "Enabled": false,
  "SendMissedBkpRpt": false,
  "SmtphAuthPwd": "",
  "SmtphAuthUser": "",
  "ReportSenderEmail": "",
  "SmtphPort": "",
  "SendStorageAlert": false,
  "Usage": 0,
  "SendBkpRpt": false,
  "Email": "",
  "SendBkpRptMode": "",
  "Id": "",
  "SmtphHostName": "",
  "MissedBkpInterval": 0,
},
"DestinationQuotaList": [
  {
    "ReadOnly": false,
    "Enabled": false,
    "DestinationKey": "OBS",
    "Quota": 0,
  }
],
"Id": "1497578979898",
"Locked": false,
"HostQuotaEnabled": false,
"TotalStatistics": {
  "D": 0,
  "E": 0,
  "F": 0,
  "A": 55920393,

```

```

"B": 55920392,
"C": 23
},
"ClientType": "OBM",
"V6File": "/usr/local/cbs_7_12.4/user/opendirect/db/Profile.xml",
"MailboxUsage": 0,
"Type": "TRIAL",
"Password": "ANBTV6/OToWAu38et4QF7roFCESDUCKB9qXb+iyiayk=",
"LongLoginName": "opendirect",
"UploadEncryptionKey": true,
"LastShowingLicViolationTime": -1,
"LastLoginTime": 1497788107994,
"HostInfo": "{\"Hosts\": [{\"CPUsocketNum\": 2, \"Hostname\": \"VMwks10-w81\"}]}",
"PasswordHistory": {
  "ReadOnly": false,
  "HistoryList": [
    {
      "ReadOnly": false,
      "Password": "ANBTV6/OToWAu38et4QF7roFCESDUCKB9qXb+iyiayk=",
      "LastDisabledTime": -1,
    }
  ]
},
"PasswordLastModifiedTime": 1497578979897,
"Id": "",
},
"FullName": null,
"SoftwareUpdateSettings": {
  "ReadOnly": false,
  "Enabled": true,
  "Id": "",
},
"Hostname": "",
"Office365MailEnabled": false,
"HomeDir": "/usr/local/cbs_7_12.4/user/opendirect",
"RoutineJobSettings": {
  "ReadOnly": false,
  "QuotaRemindPercentage": 0,
  "InactiveReportLastSentTime": -1,
  "Id": "",
},
"Owner": "",
"ModuleSettings": {
  "MobileQuota": 10,
  "VMwareVMQuotaType": "GUESTVM",
  "VMwareVMQuota": 10,
  "MobileEnabled": true,
  "DeltaMergeEnabled": false,
  "DeduplicationEnabled": true,
  "MSExchangeMailboxBackupEnabled": true,
  "MariaDBBackupEnabled": false,
  "OracleBackupEnabled": true,
  "QnapEnabled": true,
  "MSExchangeBackupEnabled": true,
  "OpenDirectEnabled": true,
  "VMwareBackupEnabled": true,
  "InFileDeltaEnabled": true,
  "MSHyperVVMQuota": 10,
  "MySQLBackupEnabled": true,
  "MobileV2Quota": 10,
  "LotusDominoBackupEnabled": true,
  "OpenDirectQuota": 10,
  "MobileV2Enabled": true,
  "ReadOnly": false,
  "Office365MailQuota": 0,
  "MSHyperVVMQuotaType": "GUESTVM",
  "NasClientEnabled": true,
  "MSSQLBackupEnabled": true,
  "MSExchangeDAGServerQuota": 0,
  "ShadowProtectBackupEnabled": true,
  "MSWindowsSystemStateBackupEnabled": true,
  "MSHyperVBackupEnabled": true,

```

```

    "ShadowCopyEnabled": true,
    "LotusNotesBackupEnabled": true,
    "Id": "",
    "Office365MailEnabled": false,
    "CDPEnabled": true,
    "MSEMailboxQuota": 10,
    "MSWindowsSystemBackupEnabled": true
  },
  "EncodedName": "opendirect",
  "File": "/usr/local/cbs_7_12.4/conf/users.xml",
  "ServerSettings": null,
  "RunDirectQuota": 1,
  "UserId": "opendirect",
  "HostSet": [
    "vmwks10-w81":"vmwks10-w81"
  ],
  "Name": "opendirect",
  "ContactList": [],
  "Status": "ENABLE",
  "TrialDays": 2592000000,
  "UserSuspendSettings": {
    "ReadOnly": false,
    "Enabled": true,
    "Date": 1500170979897,
    "Id": ""
  },
  "Alias": "",
  "RunDirectQuotaEnabled": false,
  "AdGroups": [],
  "Language": "en",
  "AdGroup": "",
  "LockedByMFA": false,
  "LastSuccessfulLoginInfo": {
    "Type": "Windows / IE",
    "PhoneNumber": null,
    "IpAddress": "192.168.69.199",
    "Time": 1571191317707,
    "Id": "1571191317707"
  },
  "SecuritySettings": {
    "UserLockSettings": {
      "Id": "",
      "LastFailureTime": 1571125029625,
      "LockedTime": -1,
      "LoginFailureCount": 0
    },
    "PhoneList": [
      {
        "Verified": true,
        "VerifiedTime": 1571125059892,
        "PhoneNumber": "2128675309",
        "Id": "1571124054767",
        "CountryCode": 1
      }
    ],
    "Enable": true,
    "Id": "",
    "SendLimitSettings": {
      "LastSendTime": -1,
      "SendCount": 0,
      "Id": ""
    },
    "RecoverySettings": {
      "Token": "",
      "ExpiryTime": -1,
      "Id": ""
    }
  },
  "WindowsEventLogSettings": {
    "ReadOnly": false,
    "Enabled": false,

```

```
"LogError": false,  
"LogProfile": false,  
"LogServices": false,  
"LogUtilities": false,  
"LogBackup": false,  
"LogReport": false,  
"LogSoftwareUpdate": false,  
"LogInfo": false,  
"LogLoginLogout": false,  
"LogBuy": false,  
"LogLicense": false,  
"LogWarn": false,  
"Id": "",  
"LogRestore": false,  
},  
"StorageQuota": 53687091201,  
"QuotaType": "PER_DESTINATION_QUOTA",  
"LastModified": 1497578442000,  
}  
}
```

## 4.1.10 ModifyUserStatus

This API can be used to modify a user account status to either enable or suspended. It cannot be used for trial user accounts which are suspended after they have exceeded the trial period.

The related settings can be found on the AhsayCBS web console:

- [Backup / Restore] > [User, Groups & Policies] > [Backup user] > Choose a user > [User Profile] > [General]

URL:			
<a href="https://CBS.EXAMPLE.COM/obs/api/json/ModifyUserStatus.do">https://CBS.EXAMPLE.COM/obs/api/json/ModifyUserStatus.do</a>			
Available since version:			
9.1			
Parameters:			
Key	Type	Descriptions	
SysUser	String	Username of an AhsayCBS System User with Admin or API role	
SysPwd	String	Password matching SysUser	
LoginName	String	Client user name	
Owner	String		
Status	String	"ENABLE" or "SUSPENDED"	
Return Values:			
Key	Type	Descriptions	
Status	String	"OK" or "Error"	
Message	String	Error message, it exists only if status is "Error"	
ExptType	String	The type of exception, it exists only if status is "Error"	
Example:			
Input			
<pre>{   "SysUser": "api_user",   "SysPwd": "qWeRtY123456!@#%\$",   "LoginName": "user1",   "Status": "SUSPENDED" }</pre>			
Output			
<pre>{"Status": "OK"}</pre>			
Output 2 User not exist			
<pre>{   "Status": "Error",   "Message": "[UserCacheManager.NoSuchUserExpt] User 'user1' not found.",   "ExptType": "com.ahsay.obs.core.dbs.Y" }</pre>			

## 4.1.11 RemoveUser

This API removes a backup user.

The related settings can be found on the AhsayCBS web console:

[\[Backup / Restore\]](#) > [\[User, Groups & Policies\]](#) > [\[Backup user\]](#)

<b>URL:</b>			
<a href="https://CBS.EXAMPLE.COM/obs/api/json/RemoveUser.do">https://CBS.EXAMPLE.COM/obs/api/json/RemoveUser.do</a>			
<b>Available since version:</b>			
9.1			
<b>Parameters:</b>			
Key	Type	Descriptions	
SysUser	String	Username of an AhsayCBS System User with Admin or API role	
SysPwd	String	Password matching SysUser	
LoginName	String	To remove multiple users, join their login names, separated with "*", e.g. user1*user2*user3	
Owner	String	To remove multiple users, join their owner, separated with "*", e.g. owner1*owner2*owner3 If the owner is system admin, use a space as the owner name, e.g. " * * " This field is mandatory if multiple users are removed.	
<b>Return Values:</b>			
Key	Type	Descriptions	
Status	String	"OK" or "Error"	
Message	String	Error message, it exists only if status is "Error"	
ExptType	String	The type of exception, it exists only if status is "Error"	
<b>Example:</b>			
<b>Input</b>			
<pre>{   "SysUser": "api_user",   "SysPwd": "qWeRtY123456!@#%\$",   "LoginName": "user1*user2",   "Owner": " * * " }</pre>			
<b>Output</b>			
{"Status": "OK"}			

## 4.1.12 SendForgotPwdEmail

This API will send a forgot password email to a backup user who has forgot their login password, to allow them to reset their login password.

<b>URL:</b>		
<a href="https://CBS.EXAMPLE.COM/obs/api/json/SendForgotPwdEmail.do">https://CBS.EXAMPLE.COM/obs/api/json/SendForgotPwdEmail.do</a>		
<b>Available since version:</b>		
9.1		
<b>Parameters:</b>		
Key	Type	Descriptions
SysUser	String	Username of an AhsayCBS System User with Admin or API role
SysPwd	String	Password matching SysUser
LoginName	String	The value of this parameter can handle 1 user at a time.
Owner	String	The value of this parameter can handle 1 user at a time.
<b>Return Values:</b>		
Key	Type	Descriptions
Status	String	"OK" or "Error"
Message	String	Error message, it exists only if status is "Error"
ExptType	String	The type of exception, it exists only if status is "Error"
<b>Example:</b>		
<b>Input</b>		
<pre>{   "SysUser": "api_user",   "SysPwd": "qWeRtY123456!@#\$\$%",   "LoginName": "user1", }</pre>		
<b>Output</b>		
{"Status": "OK"}		
<b>Example: Login name is incorrect</b>		
<b>Input</b>		
<pre>{   "SysUser": "api_user",   "SysPwd": "qWeRtY123456!@#\$\$%",   "LoginName": "user1", }</pre>		
<b>Output</b>		
{"Status": "Error", "Message": "[UserCacheManager.NoSuchUserExpt] User 'user1' not found.", "ExptType": "com.ahsay.obs.core.dbs.Y"}		



### 4.1.13 GetUserStatus

This API can be used to retrieve detail information of backup or restore job that is currently running.

The related settings can be found on the AhsayCBS web console:

🔗 [Monitoring] > [Live Activities] > [Backup user] > [Backup Status] OR [Restore Status]

<b>URL:</b>		
<a href="https://CBS.EXAMPLE.COM/cbs/api/json/GetUserStatus.do">https://CBS.EXAMPLE.COM/cbs/api/json/GetUserStatus.do</a>		
<b>Available since version:</b>		
9.1		
<b>Parameters:</b>		
Key	Type	Descriptions
SysUser	String	Username of an AhsayCBS System User with Admin, API, or RO API role
SysPwd	String	Password matching SysUser
Type	String	The value can be one of the followings: backup restore
<b>Return Values:</b>		
Key	Type	Descriptions
Status	String	"OK" or "Error"
BkpStatus	Array of BkpStatus	If input parameter type is "backup", array of BkpStatus is returned.
RestoreStatus	Array of RestoreStatus	If input parameter type is "restore", array of RestoreStatus is returned.
Message	String	Error message, it exists only if status is "Error".
ExptType	String	The type of exception, it exists only if status is "Error".
<b>JSON Objects:</b>		
<b>BkpStatus/ RestoreStatus</b>		
Key	Type	Descriptions
ID	String	
LoginName	String	Name of the backup account.
Owner	String	Owner of the backup account.
UserId	String	ID of the backup account.
Alias	String	Alias of the backup account.
UserType	String	User type.  The value can be one of the following:  Trial Paid
ClientType	String	Backup client type.  The value can be one of the following:  OBM ACB

Type	String	Backup set type.  The value can be one of the following:  FILE Cloud File Lotus Domino Lotus Notes Microsoft Exchange Server Microsoft Exchange Mail (MAPI) Microsoft SQL Server Microsoft Windows Virtualization Microsoft Windows System Backup MySQL Oracle Database Server ShadowProtect Bare Metal System State VMware Virtualization Office 365 Exchange Online
BackupSet	String	Name of the backup set.
BackupSetID	String	ID of the backup set.
DestinationID	String	ID of the backup destination.
DestinationName	String	Name of the backup destination.
DestinationType	String	Destination storage of the backup set.  The value can be one of the following:  Local / Mapped Drive / Removable Drive : Local Alibaba Cloud : Aliyun CTYun : CTYun Amazon S3 : S3 AWS S3 Compatible Cloud Storage : AWSCompatible Wasabi Backblaze Google Cloud Storage : GCS Google Drive : GDrive Microsoft Azure : Azure OneDrive : OneDrive OneDrive for Business : OneDrive4Biz Rackspace : Rackspace OpenStack : OpenStack Dropbox : Dropbox FTP : FTP SFTP : SFTP AhsayCBS : OBS Destination pool : Pooled  For backup job with version 6 backup client: %EMPTY%
OverallPercent	String	Progress of the backup job shown in percentage.
BackupStatus	String	Message type of the current stage of the backup job. (Info/Warn/Erro)
LastMessage	String	Last message reported during the backup job.
LastUpdateTime	String	Time of the last message reported during the backup job.
EstimatedTimeLeft	String	Estimated time to backup job completion.
SizeLeft	String	Data size left to be backed up.
UploadedSize	String	Data size of all uploaded data during the backup job.
TransferRate	String	Transfer rate measured at the moment.
CurrentFile	String	Current backup / restore file.
UploadedNumOfFiles	String	Total number of files uploaded for BkpStatus (e.g. input "Type":"backup")  or  Total number of files downloaded for RestoreStatus (e.g. input "Type":"restore").

UploadedNumOfDirs	String	Total number of directories uploaded for BkpStatus (e.g. input "Type":"backup")  or  Total number of directories downloaded for RestoreStatus (e.g. input "Type":"restore").
UploadedNumOfLinks	String	Total number of links uploaded for BkpStatus (e.g. input "Type":"backup")  or  Total number of links downloaded for RestoreStatus (e.g. input "Type":"restore").
ElapsedTime	String	Elapsed time of the backup job.
CurrentFilePercent	String	Upload percentage of the current file being backed up / restored.
CurrentFileType	String	Current type.  The value can be one of the following:  Full Incremental Differential
CurrentFileOperation	String	File operation list.  The value can be one of the following:  new update delete move file permission
DeltaFile	String	Delta file path.
DeltaFilePercent	String	Upload percentage of the current delta file.
DeltaType	String	Deltas type.  The value can be one of the following:  Incremental Differential
BackupJobID or RestoreJobID	String	Backup Job ID for BkpStatus (e.g. input "Type":"backup"), or Restore Job ID for RestoreStatus (e.g. input "Type":"restore").  ID in YYYY-MM-DD-hh-mm-ss format.

**Example 1 ("Type": "backup"):****Input**

```
{
  "SysUser": "system",
  "SysPwd": "system",
  "Type": "backup"
}
```

**Output**

```
{
  "Status": "OK",
  "BkpStatus": [
    {
      "SizeLeft": "943.94M",
      "DestinationType": "OBS",
      "LoginName": "username",
      "Type": "FILE",
      "DeltaFile": "",
      "LastUpdateTime": "07/10/2016 18:07:41",
      "DestinationName": "CBS",
      "CurrentFilePercent": "100",
      "ElapsedTime": "3 min 14 sec",
      "ID": "0",
      "CurrentFileOperation": "new",
      "LastMessage": "[1475834453800] [New File]... 100% of \\\"C:\\cbs-win7700.exe\\\"",
      "TransferRate": "29Mibit/s",
      "UploadedNumOfLinks": "0",
      "UploadedNumOfDirs": "4",
      "UserType": "PAID",
      "Owner": "",
      "DeltaType": "",
      "UploadedNumOfFiles": "1",
      "DeltaFilePercent": "0",
      "UploadedSize": "907.37M",
      "EstimatedTimeLeft": "4 min 19 sec",
      "CurrentFile": "C:\\cbs-win7700.exe",
      "UserId": "1475834105960",
      "BackupSet": "Test",
      "OverallPercent": "49",
      "Alias": "",
      "DestinationID": "1475834453800",
      "BackupSetID": "1475834388686",
      "BackupJobID": "2016-10-07-18-04-25",
      "BackupStatus": "info",
      "ClientType": "OBM",
      "CurrentFileType": "New File"
    }
  ]
}
```

**Example 2 ("Type": "restore"):****Input**

```
{
  "SysUser": "system",
  "SysPwd": "system",
  "Type": "restore"
}
```

**Output**

```
{
  "Status": "OK",
  "RestoreStatus": [
    {
      "SizeLeft": "1.67G",
      "DestinationType": "OBS",
      "LoginName": "username",
      "Type": "FILE",
      "DeltaFile": "",
      "LastUpdateTime": "07/10/2016 18:26:35",
      "DestinationName": "CBS",
      "CurrentFilePercent": "14",
      "ElapsedTime": "38 sec",
      "ID": "0",
      "CurrentFileOperation": "",
      "LastMessage": "Downloading... \\E:\\ Dest\\C_\\cbs-win7810.exe" (Total 472.86M bytes)",
      "TransferRate": "54Mibit/s",
      "UploadedNumOfLinks": "0",
      "UploadedNumOfDirs": "0",
      "UserType": "PAID",
      "Owner": "",
      "DeltaType": "",
      "RestoreJobID": "2016-10-07-18-25-57",
      "UploadedNumOfFiles": "0",
      "DeltaFilePercent": "0",
      "UploadedSize": "131.25M",
      "EstimatedTimeLeft": "2 min 5 sec",
      "CurrentFile": "E:\\Dest\\C_\\cbs-win7500.exe",
      "UserId": "1475834105960",
      "BackupSet": "Test",
      "OverallPercent": "7",
      "Alias": "",
      "DestinationID": "1475834453800",
      "BackupSetID": "1475834388686",
      "BackupStatus": "info",
      "ClientType": "OBM",
      "CurrentFileType": ""
    }
  ]
}
```

## 4.1.14 GetServerRunJobStatus

This API can be used to retrieve detail information of Run on Server (agentless) backup or restore job that is currently running.

The related settings can be found on the AhsayCBS web console:

- [Backup / Restore] > [User, Groups & Policies] > [Backup User] > Click a user > [Backup Set] > Execute Job

<b>URL:</b>		
	<a href="https://CBS.EXAMPLE.COM/cbs/api/json/GetServerRunJobStatus">https://CBS.EXAMPLE.COM/cbs/api/json/GetServerRunJobStatus</a>	
<b>Available since version:</b>		
	9.1	
<b>Parameters:</b>		
Key	Type	Descriptions
SysUser	String	Username of an AhsayCBS System User with Admin, API, or RO API role
SysPwd	String	Password matching SysUser
User	String	Username of the user to lookup
<b>Return Values:</b>		
Key	Type	Descriptions
Status	String	"OK" or "Error"
Message	String	Error message, it exists only if status is "Error"
RunJob	Array of RunJob	Run on Server (agentless) backup set status ( <i>backup, restore, dataIntegrityCheck, deleteBackupData</i> )

<b>JSON Objects:</b>		
<b>RunJob</b>		
Key	Type	Descriptions
IsEnableStopBtn	Boolean	True for a manually run job; and False when it is scheduled job or job where there is no Stop in the UI.
BackupSetID	String	Backup set ID
ExecuteJob	String	Job currently running, empty if no running job

## 4.1.15 UpdateAUA

This API can be used to toggle a list of Backup User(s) Auto Update Agent (AUA) setting.

The related settings can be found on the AhsayCBS web console:

- [Backup / Restore] > [User, Groups & Policies] > [Backup User] > Select user(s) > Click "Auto Update" > mark/unmark > Click "Auto Update" or "Cancel Auto Update" button

URL:			
	<a href="https://CBS.EXAMPLE.COM/obs/api/json/UpdateAUA.do">https://CBS.EXAMPLE.COM/obs/api/json/UpdateAUA.do</a>		
Available since version:			
	9.5		
Parameters:			
Key	Type	Descriptions	
SysUser	String	Username of an AhsayCBS System User with Admin or API role	
SysPwd	String	Password matching SysUser	
Enabled	boolean	Set the list of users to enable/disable Auto Update	
UserIdList	String	Multiple login names (case-sensitive), separated by commas. For example: user1,user2,uSEr3	
Return Values:			
Key	Type	Descriptions	
Status	String	"OK" or "Error"	
Message	String	Error message, it exists only if status is "Error"	

Example:	
Input	
	<pre>{   "SysUser": "api_user",   "SysPwd": "qWeRtY123456!@#%\$%",   "Enabled": false,   "UserIdList": "user1,user2" }</pre>
Output	
	<pre>{ "Status": "OK" }</pre>

Example:	
Input	
	<pre>{   "SysUser": "api_user",   "SysPwd": "qWeRtY123456!@#%\$%",   "UserIdList": "user1,user2" }</pre>
Output	
	<pre>{   "Status": "Error",   "Message": "[Error] Parameter Enabled is null/empty!",   "ExptType": "com.ahsay.obs.core.dbs.DbsException" }</pre>

**Example:****Input**

```
{  
  "SysUser": "api_user",  
  "SysPwd": "qWeRtY123456!@#$$%",  
  "Enabled": false,  
  "UserIdList": "uSEr1"  
}
```

**Output**

```
{  
  "Status": "Error",  
  "Message": "[UserCacheManager.NoSuchUserExpt] User 'uSEr1' not found.",  
  "ExptType": "com.ahsay.obs.core.dbs.UserCacheManager$NoSuchUserExpt"  
}
```



## 4.2 Backup Set

### 4.2.1 UpdateBackupSet (v1,v2)

This API can be used to update settings of a backup set.

The related settings can be found on the AhsayCBS web console at:

- [Backup / Restore] > [User, Groups & Policies] > [Backup user] > Choose a user > [Backup Set] > Choose a backup set

Note: Ahsay v9 introduces Deduplication. For users running v9 client, new backupsets created from v9 will not use In-File Delta, but rather use Deuplication; adjust your API call accordingly.

#### v1 UpdateBackupSet.do

<b>URL:</b>
<a href="https://CBS.EXAMPLE.COM/obs/api/json/UpdateBackupSet.do">https://CBS.EXAMPLE.COM/obs/api/json/UpdateBackupSet.do</a>
<b>Deprecated since version:</b>
7.15.6.38

#### v2 UpdateBackupSet.do

<b>URL:</b>		
<a href="https://CBS.EXAMPLE.COM/obs/api/json/2/UpdateBackupSet.do">https://CBS.EXAMPLE.COM/obs/api/json/2/UpdateBackupSet.do</a>		
<b>Available since version:</b>		
9.5		
<b>Parameters:</b>		
Key	Type	Descriptions
SysUser	String	Username of an AhsayCBS System User with Admin or API role
SysPwd	String	Password matching SysUser
LoginName	String	Username of the backup user.
BackupSetID	String	Obtainable by calling the ListBackupsets API.
ReadOnly	Boolean	
Class	String	com.ahsay.obx.cxp.obs.BackupSet
Name	String	Backup set name
ShadowCopyEnabled	Boolean	Enable Windows' Volume Shadow Copy for open file backup
DeleteTempFile	String	Remove temporary files after backup
LogRetentionDays	Integer	Number of days to keep the backup set log
FollowLink	Boolean	Follow link of the backup files
CompressType	String	The value can be one of the following:  "GzipBestSpeedCompression" (Fast), "GzipDefaultCompression" (Normal), "SnappyDefaultCompression " (Optimal for local)  Default to 'No Compression' if not provided
LanDomain	String	Windows User Authentication domain/host name
LanUsername	String	Windows User Authentication user name
LanPassword	String	Windows User Authentication user password
WorkingDir	String	Temporary Driectory for storing backup files
UploadPermission	Boolean	Enable to backup permission attribute of files
ReminderSettings	Array	The reminder settings
InFileDeltaSettings	Array	
LocalCopySettings	Array	

RetentionPolicySettings	Array	
CdpSettingsV6	Array	
CdpSettingsV7	Array	
BandwidthControlSettings	Array	
FilterSettings	Array	
ScheduleSettings	Array	
DestinationSettings	Array	
SelectedSourceList	Array	Can be an array with local path (String type) and network address with credential ( <i>NetworkAddress</i> type)
DeselectedSourceList	Array	Can be an array with local path (String type) and network address with credential ( <i>NetworkAddress</i> type)
PreCommandList	Array	
PostCommandList	Array	
AllowedIPList	Array	
ApplicationSettings	Array	
DestinationList	Array	(optional)
EnableOpenDirect	Boolean	Note: Cannot be changed once set
NetworkAddress	JSON Object	Can be used in <i>SelectedSourceList</i> and <i>DeselectedSourceList</i>
DeduplicationSettings	Object	Refer to <i>DeduplicationSettings</i>

#### Return Values:

Key	Type	Descriptions
Status	String	"OK" or "Error"
Message	String	Error message, it exists only if status is "Error"
ExptType	String	The type of exception, it exists only if status is "Error"

#### JSON Objects:

ReminderSettings		
Key	Type	Descriptions
ReadOnly	Boolean	
BackupIntervalHour	Integer	00-23
OfflineNotificationDay	Integer	This setting only applicable for v6 legacy backup users.
OfflineBackupEnabled	Boolean	On-Off for offline backup reminder
BackupIntervalDay	Integer	00-31
ShowOfflineBackupReminder	Boolean	This setting only applicable for v6 legacy backup users.
LogoutBackupReminderEnabled	Boolean	Enable/Disable backup reminder when windows log off or shut down.
OfflineBackupReminderComputerName	String	The computer name for the offline backup reminder
LogoutBackupReminderComputerName	String	The computer name for logout backup reminder
InfileDeltaSettings		
Key	Type	Descriptions
Enabled	Boolean	
ReadOnly	Boolean	
MinDeltaFileSize	Long	Only apply In-File Delta to files larger than this size.
MaxNumOfDelta	Long	Upload full file when number of deltas are over this number Highly recommended to choose one of the following value: 10 20 30 50 100
MaxDeltaRatio	Long	Upload full file when delta file size / full file size is over this ratio. It can only be multiple of 5 of maximum 100.
DefaultDeltaType	String	The value can be one of the following:  I D
WeeklyInFileDeltaSchedule	Array	Weekly variations for overriding default type
MonthlyInFileDeltaSchedule	Array	Yearly variations for overriding default type and weekly variations

WeeklyInFileDeltaSchedule		
Key	Type	Descriptions
ReadOnly	Boolean	
Day	Array	The array contains 7 Strings, which corresponds to the delta type from Sunday to Saturday.  "I" for incremental delta on that day, "D" for differential delta on that day, and "" for full backup on that day.
MonthlyInFileDeltaSchedule		
Key	Type	Descriptions
ReadOnly	Boolean	
Month	Array	The array contains 12 Strings, which corresponds to the delta type from January to December.  "I" for incremental delta on that month, "D" for differential delta on that month, and "" for full backup on that month.
Date	Integer	Day of selected months in yearly variations
Criteria	String	The value can be one of the following:  Weekday Weekend Sunday Monday Tuesday Wednesday Thursday Friday Saturday
Occurrence	String	The value can be one of the following:  First Second Third Fourth Last
LocalCopySettings		
Key	Type	Descriptions
ReadOnly	Boolean	
Enabled	Boolean	This setting only applicable for v6 legacy backup users.
DestinationPath	String	This setting only applicable for v6 legacy backup users.
SetPermission	Boolean	This setting only applicable for v6 legacy backup users.
SkipOffsiteBackup	Boolean	This setting only applicable for v6 legacy backup users.
LocalCopyRetentionPolicySettings	Array	This setting only applicable for v6 legacy backup users.
Zip	Boolean	This setting only applicable for v6 legacy backup users.
LocalCopyRetentionPolicySetting		
Key	Type	Descriptions
ReadOnly	Boolean	
Enabled	Boolean	This setting only applicable for v6 legacy backup users.
Period	Integer	This setting only applicable for v6 legacy backup users.
Unit	String	This setting only applicable for v6 legacy backup users. The value can be one of the following:  DAYS JOBS

RetentionPolicySettings		
Key	Type	Descriptions
ReadOnly	Boolean	
Period	Integer	Keep the deleted files for this number of days
OverlapSensitive	Boolean	
Type	String	The value can be one of the following:  SIMPLE ADVANCED
Unit	String	The value can be one of the following:  DAYS JOBS
AdvancedRetentionPolicyList	Array	
AdvancedRetentionPolicy		
Key	Type	Descriptions
ReadOnly	Boolean	
Id	Long	ID of the retention policy to update
Type	String	The value can be one of the following:  DAILY WEEKLY MONTHLY QUARTERLY YEARLY CUSTOM
NumbersToKeep	Integer	Available to change when you choose the following type:  DAILY WEEKLY MONTHLY QUARTERLY YEARLY
Day	Integer	Available to change when you choose the following type:  DAILY WEEKLY MONTHLY QUARTERLY YEARLY
Week	Integer	Available to change when you choose the following type:  DAILY WEEKLY MONTHLY QUARTERLY YEARLY
Month	Integer	Available to change when you choose the following type:  DAILY WEEKLY MONTHLY QUARTERLY YEARLY
Year	Integer	Available to change when you choose the following type:  CUSTOM
DateType	String	It can be empty for daily or weekly retention policy, or one of the following:  WEEK_OF_MONTH WEEK_OF_YEAR EXACT
Sun, Mon, Tue, Wed, Thu, Fri, Sat	Boolean	For weekly custom retention policy

CdpSettings		
Key	Type	Descriptions
ReadOnly	Boolean	
Enable	Boolean	
Type	String	For CdpSettingsV6, the value can be one of the following:  all-volume backup-source custom-source  For CdpSettingsV7, the value is all-volume
BackupType	String	The value can be empty, or one of the following:  DATABASE DIFFERENTIAL LOG SKIP POWEROFF  For Oracle and Lotus Domino backup sets, the value must be DATABASE or LOG  For MS SQL Server backup sets, the value must be DATABASE or DIFFERENTIAL  For MS Exchange Server before 2007 and Shadow Protect backup sets, the value must be DATABASE, DIFFERENTIAL, or LOG  For MS Exchange Server 2007 or above, the value must be DATABASE or LOG  For VMware backup sets, if version is VMware Server 1 or VMware Player, the value must be SKIP or POWEROFF
MinUpdateInterval	Integer	
TimeMarkInterval	Integer	
MaxFileSize	Integer	Only apply to files smaller than  20 50 100 500 1000 unlimited
ComputerName	String	Run CDP on computers named
ExcludeSystemFiles	Boolean	
FilterList	Array	
Version	String	For CdpSettingsV7, the value is 7
CdpBackupControlSettings	Array	This setting only applicable for v6 legacy backup users.
SelectedSourceList	Array	
Id	Array	V6 for CdpSettingV6 / v7 for CdpSettingV7
CdpBackupControlSettings		
Key	Type	Descriptions
ReadOnly	Boolean	This setting only applicable for v6 legacy backup users.
ConsiderCpuUsage	Boolean	This setting only applicable for v6 legacy backup users.
CpuUsage	Integer	This setting only applicable for v6 legacy backup users.
ConsiderInput	Boolean	This setting only applicable for v6 legacy backup users.
ObserveInputForSecond	Integer	This setting only applicable for v6 legacy backup users.
ConsiderNetworkTraffic	Boolean	This setting only applicable for v6 legacy backup users.
NetworkTraffic	Long	This setting only applicable for v6 legacy backup users.

<b>BandwidthControlSettings</b>		
<b>Key</b>	<b>Type</b>	<b>Descriptions</b>
ReadOnly	Boolean	
Enabled	Boolean	
BandwidthControlList	Array	
Mode	String	The value can be one of the following:  independent share
<b>BandwithControl</b>		
<b>Key</b>	<b>Type</b>	<b>Descriptions</b>
ReadOnly	Boolean	
Name	String	
Id	Long	
MaxTransferRateInBitsPerSec	Long	
StartDay	Integer	
StartHour	Integer	
StartMinute	Integer	
EndDay	Integer	
EndHour	Integer	
EndMinute	Integer	
<b>FilterSettings</b>		
<b>Key</b>	<b>Type</b>	<b>Descriptions</b>
ReadOnly	Boolean	
Enabled	Boolean	
FilterList	Array	
<b>FilterList</b>		
<b>Key</b>	<b>Type</b>	<b>Descriptions</b>
ReadOnly	Boolean	
Name	String	Name of the filter
Id	Long	Id of the filter, obtainable in GetBackupSet API
TopDir	String	Apply fileter to a specific directory only
@class	String	com.ahsay.obx.cxp.obs.Filter
ApplyToDir	Boolean	Apply filters to directory
Type	String	The value can be one of the following:  START_WITH END_WITH CONTAIN CUSTOM
Include	Boolean	For each of the matched files/folders under top directory: Exclude or include them
Only	Boolean	If it is set to true, it will not include all unmatched files/folders If it is set to false, it will include all unmatched files/folders
PatternList	Array	
MatchPatternAgainstFullPathOnly	Boolean	
Username	String	Support UNC paths with non-Windows credentials as backup source
Password	String	Support UNC paths with non-Windows credentials as backup source
<b>Pattern</b>		
<b>Key</b>	<b>Type</b>	<b>Descriptions</b>
ReadOnly	Boolean	
Pattern	String	

ApplicationSettings		
Key	Type	Descriptions
ReadOnly	Boolean	
@class	String	The value can be one of the following:  com.ahsay.obx.cxp.cloud.FileSettings com.ahsay.obx.cxp.cloud.LotusDominoSettings com.ahsay.obx.cxp.cloud.LotusNotesSettings com.ahsay.obx.cxp.cloud.MSExchangeSettings com.ahsay.obx.cxp.cloud.MSExMailboxSettings com.ahsay.obx.cxp.cloud.MSSQLSettings com.ahsay.obx.cxp.cloud.MSHypervSettings com.ahsay.obx.cxp.cloud.MSWindowsSystemSettings com.ahsay.obx.cxp.cloud.MySQLSettings com.ahsay.obx.cxp.cloud.OracleSettings com.ahsay.obx.cxp.cloud.ShadowProtectSettings com.ahsay.obx.cxp.cloud.MSWindowsSystemStateSettings com.ahsay.obx.cxp.cloud.VMwareSettings com.ahsay.obx.cxp.cloud.Office365ExchangeOnlineSettings com.ahsay.obx.cxp.cloud.CloudFileSettings com.ahsay.obx.cxp.cloud.MariaDBSettings
Id	String	
Version	String	
WindowsOutlook	Boolean	Backup source shortcut to Outlook  Applicable for File backup set only.
WindowsDesktop	Boolean	Backup source shortcut to Desktop  Applicable for File backup set only.
WindowsOutlookExpress	Boolean	Backup source shortcut for Outlook Express  Applicable for File backup set only.
WindowsMail	Boolean	Backup source shortcut to Windows Mail  Applicable for File backup set only.
WindowsFavourites	Boolean	Backup source shortcut to Favourites  Applicable for File backup set only.
WindowsMyDocuments	Boolean	Backup source shortcut to My Document  Applicable for File backup set only.
NotesIniPath	String	Path to notes.ini  Applicable for IBM Lotus Domino / IBM Lotus Notes backup set only.
BackupSystemState	Boolean	Applicable for MS Exchange Server backup set only.
LoginID	String	Login ID of sa / system account  Applicable for MS SQL Server / Oracle Database Server backup set only.
Password	String	Password of sa / system / root account  Applicable for MS SQL Server / MySQL / Oracle / MariaDB Database Server / VMware backup set only.
Server	String	SQL Server instance  Applicable for MS SQL Server backup set only.
BackupTarget	String	Temporary storage location of the MS Windows System / System State backup set  Applicable for MS Windows System / System State backup set only.
Port	Integer	Listening port of the MySQL / Oracle Database Server Port to the VMware hypervisor  Applicable for MySQL / Oracle / MariaDB Database Server / VMware backup set only.

Host	String	Hostname or IP to the MySQL / Oracle / MariaDB Database Server, or VMware hypervisor  Applicable for MySQL / Oracle / MariaDB Database Server / VMware backup set only.
Username	String	Username of root account  Applicable for MySQL / VMware / MariaDB backup set only.
MysqldumpPath	String	Applicable for MySQL / MariaDB backup set only.
LastArchivedLogName	String	Applicable for Oracle Database Server backup set only.
Sid	String	Oracle SID  Applicable for Oracle Database Server backup set only.
EncryptionAlgorithm	String	Applicable for ShadowProtect System backup set only.
EncryptionPassword	String	Applicable for ShadowProtect System backup set only.
InstallLocation	String	Applicable for ShadowProtect System backup set only.
Sshport	Integer	Applicable for VMware backup set only.
AutoEnableCBT	Boolean	Applicable for VMware backup set only.
OneDrive	Boolean	Applicable for Microsoft 365 backup set only.
PublicFolders	Boolean	Applicable for Microsoft 365 backup set only.
SiteCollections	Boolean	Applicable for Microsoft 365 backup set only.
Outlook	Boolean	Applicable for Microsoft 365 backup set only.
<b>ScheduleSettings</b>		
<b>Key</b>	<b>Type</b>	<b>Descriptions</b>
ReadOnly	Boolean	
Enable	Boolean	
ComputerName	String	
DailyScheduleList	Array	
WeeklyScheduleList	Array	
MonthlyScheduleList	Array	
CustomScheduleList	Array	
<b>DailyScheduleList</b>		
<b>Key</b>	<b>Type</b>	<b>Descriptions</b>
ReadOnly	Boolean	
Name	String	Name of the schedule
Id	Long	ID of the schedule, obtainable in GetbackupSets API
Hour	Integer	Refer to HH. The schedule will start backup at HH:MM
Minute	Integer	Refer to MM. The schedule will start backup at HH:MM
Duration	Integer	(optional) If no value is specified default value = -1  The value can be one of the following:  until full backup completed = -1 stop backup after xx hours = 1 to 24



BackupType	String	<p>The value can be empty, or one of the following:</p> <p>DATABASE DIFFERENTIAL LOG SKIP POWEROFF</p> <p>For Oracle and Lotus Domino backup sets, the value must be DATABASE or LOG</p> <p>For MS SQL Server backup sets, the value must be DATABASE or DIFFERENTIAL</p> <p>For MS Exchange Server before 2007 and Shadow Protect backup sets, the value must be DATABASE, DIFFERENTIAL, or LOG</p> <p>For MS Exchange Server 2007 or above, the value must be DATABASE or LOG</p> <p>For VMware backup sets, if version is VMware Server 1 or VMware Player, the value must be SKIP or POWEROFF</p>
SpaceFreeUpEnabled	Boolean	Remove obsolete files from backup destination according to retention policy
LastUpdateTime	Long	
@class	String	com.ahsay.obx.cxp.obs.DailySchedule
MigratedFromCdp	Boolean	True indicate it is migrated from CDP, this value cannot be changed
BackupInterval	Integer	<p>Support periodic schedule backup for all backup set types</p> <p>The value can be -1 or one of the following: 1, 2, 3, 4, 5, 6, 10, 12, 15, 20, 30, 60, 120, 180, 240, 360, 480, 720 (-1 means periodic schedule is disabled that it is a normal schedule.)</p>
<b>WeeklyScheduleList</b>		
<b>Key</b>	<b>Type</b>	<b>Descriptions</b>
ReadOnly	Boolean	
Name	String	Name of the schedule
Id	Long	Id of the schedule, obtainable in GetBackupSet API
Hour	Integer	Refer to HH. The schedule will start backup at HH:MM
Minute	Integer	Refer to MM. The schedule will start backup at HH:MM
Duration	Integer	<p>(optional) If no value is specified default value = -1</p> <p>The value can be one of the following:</p> <p>until full backup completed = -1 stop backup after xx hours = 1 to 24</p>
BackupType	String	Refer to "BackupType" of DailySchedule
Days	Array	<p>The array contains 7 boolean values that correspond to Sunday to Saturday.</p> <p>If the boolean value is true, backup will be run on that day.</p>
SpaceFreeUpEnabled	Boolean	Remove obsolete files according to retention policy from backup destination according to retention policy
LastUpdateTime	Long	
@class	String	com.ahsay.obx.cxp.obs.WeeklySchedule
BackupInterval	Integer	<p>Support periodic schedule backup for all backup set types</p> <p>The value can be -1 or one of the following: 1, 2, 3, 4, 5, 6, 10, 12, 15, 20, 30, 60, 120, 180, 240, 360, 480, 720 (-1 means periodic schedule is disabled that it is a normal schedule.)</p>

MonthlyScheduleList		
Key	Type	Descriptions
ReadOnly	Boolean	
Name	String	
Id	Long	Id of the schedule, obtainable in GetBackupSet API
Hour	Integer	Refer to HH. The schedule will start backup at HH:MM
Minute	Integer	Refer to MM. The schedule will start backup at HH:MM
BackupType	String	Refer to "BackupType" of DailySchedule
Duration	Integer	
Occurrence	String	The value can be one of the following:  First Second Third Fourth Last
Criteria	String	The value can be one of the following:  Sunday Monday Tuesday Wednesday Thursday Friday Saturday Weekday Weekend
SpaceFreeUpEnabled	Boolean	Remove obsolete files according to retention policy from backup destination according to retention policy
LastUpdateTime	Long	
@class	String	com.ahsay.obx.cxp.obs.MonthlySchedule
CustomScheduleList		
Key	Type	Descriptions
ReadOnly	Boolean	
Name	String	
Id	Long	ID of the schedule, obtainable in GetBackupset API
Hour	Integer	Refer to HH. The schedule will start backup at HH:MM
Minute	Integer	Refer to MM. The schedule will start backup at HH:MM
Duration	Integer	(optional) If no value is specified default value = -1  The value can be one of the following:  until full backup completed = -1 stop backup after xx hours = 1 to 24
Date	String	In yyyy-MM-dd format Backup on this day once
BackupType	String	Refer to "BackupType" of DailySchedule
SpaceFreeUpEnabled	Boolean	Remove obsolete files according to retention policy from backup destination according to retention policy
LastUpdateTime	Long	
@class	String	com.ahsay.obx.cxp.obs.CustomSchedule

Command		
Key	Type	Descriptions
ReadOnly	Boolean	
Name	String	
Command	String	
Type	String	The value can be one of the following:  Pre Post
Id	Long	Id of the command, obtainable in GetBackupSet API
WorkingDir	String	
Username	String	Support UNC paths with non-Windows credentials as backup source
Password	String	Support UNC paths with non-Windows credentials as backup source
AllowedIP		
Key	Type	Descriptions
ReadOnly	Boolean	
Id	Long	Id of the command, obtainable in GetBackupSet API
StartIP	String	
EndIP	String	
DestinationSettings		
Key	Type	Descriptions
ReadOnly	Boolean	
DestinationList	Array	
Destination		
Key	Type	Descriptions
ReadOnly	Boolean	
Id	Long	Id of the destination, obtainable in GetBackupSet API
Name	String	
TopDir	String	
@class	String	The value can be one of the following:  com.ahsay.obx.cxp.obs.LocalDestination com.ahsay.obx.cxp.obs.AmazonS3Destination com.ahsay.obx.cxp.obs.AWSCompatibleDestination com.ahsay.obx.cxp.obs.GoogleCloudStorageDestination com.ahsay.obx.cxp.obs.GoogleDriveDestination com.ahsay.obx.cxp.obs.WindowsAzureDestination com.ahsay.obx.cxp.obs.OneDriveDestination com.ahsay.obx.cxp.obs.OpenStackDestination com.ahsay.obx.cxp.obs.RackspaceDestination com.ahsay.obx.cxp.obs.DropboxDestination com.ahsay.obx.cxp.obs.FtpDestination com.ahsay.obx.cxp.obs.SftpDestination com.ahsay.obx.cxp.obs.ObsDestination com.ahsay.obx.cxp.obs.PooledDestination com.ahsay.obx.cxp.obs.AliyunDestination com.ahsay.obx.cxp.obs.BackblazeDestination com.ahsay.obx.cxp.obs.WasabiDestination

Type	String	The value can be one of the following:  Local CloudDrive S3 AWSCompatible Wasabi Backblaze GCS GDrive Azure OneDrive OpenStack Rackspace Dropbox FTP SFTP OBS Pooled Aliyun Exchange
UserName	String	
Password	String	
HostName	String	
Port	String	
AccessKey	String	
Location	String	
DestinationKey	String	
Secret	String	
UserID	String	
Token	String	
ClientId	String	
UserDisplayName	String	
ClientSecret	String	
Region	String	
TenantID	String	
AppFolderName	String	
UsingSSL	Boolean	
UsingProxy	Boolean	
DestinationList	Array	
<b>NetworkAddress</b>		
<b>Key</b>	<b>Type</b>	<b>Descriptions</b>
Src	String	
Username	String	
Password	String	

<b>DeduplicationSettings</b>		
<b>Key</b>	<b>Type</b>	<b>Descriptions</b>
Enabled	Boolean	Whether deduplication is enabled
Scope	String	Either SAME_FILE or ALL_FILES, other value will result in error
BlockSize	Integer	<ul style="list-style-type: none"> <li>65536 , for 64k-256k</li> <li>131072 , for 128k-512k</li> <li>262144 , for 256k-1M</li> <li>524288 , for 512k-2M</li> <li>1048576 , for 1M - 4 M</li> </ul> <i>Removed in v9.5: -1 (was for "Auto" default choice in earlier v9)</i>
SettingsMigrated	Boolean	Whether the settings will be migrated from In-File Delta settings in next profile update
MigrateData	Boolean	Whether to migrate data for pre-v9 In-File Delta to v9 deduplication when backup
Id	String	Unused

Note: The OpenDirect setting (*EnableOpenDirect*) cannot be changed once it was enabled when creating backupset. Create a new backup set if you need to disable OpenDirect for your backup set.

**Example:**

**Input - To update a Microsoft 365 online destination**

```
{
  "SysUser": "api_user",
  "SysPwd": "qWeRtY123456!@#%$",
  "LoginName": "user",
  "BackupSetID": "1447039383123",
  "ApplicationSettings": {
    "@class": "com.ahsay.obx.cxp.cloud.Office365ExchangeOnlineSettings",
    "RunOnServer": true,
    "Destination": {
      "@class": "com.ahsay.obx.cxp.obs.Office365ExchangeOnlineDestination",
      "Type": "Exchange",
      "Password": "QgsSo/AkSjvTlOOVjcf/W9dcqxQKiFnVql/A9Le/N0ujmNADgWipLghpjSOZzlcm",
      "DataMigrationMappingMergedToIndex": false,
      "MultiAccounts": true,
      "UserName": "abc@ahsay.com",
      "DestinationKey": "Exchange#abc@ahsay.com",
      "Id": "1472441724123",
    },
  },
}
```

**Example:**

**Input - To update a CBS destination**

```
{
  "SysUser": "api_user",
  "SysPwd": "qWeRtY123456!@#%$",
  "LoginName": "user",
  "BackupSetID": "1447039383821",
  "DestinationSettings": {
    "DestinationList": [{
      "Name": "CBS",
      "@class": "com.ahsay.obx.cxp.obs.ObsDestination",
      "Type": "OBS"
    }
  ]
}
}
```

**Example (legacy-v8 Backup Set):**

**Input - To update a Weekly In-file Delta setting**

```
{
  "SysUser": "system",
  "SysPwd": "system",
  "LoginName": "test",
  "BackupSetID": "1498728005287",
  "InFileDeltaSettings": {
    "Enabled": true,
    "MinDeltaFileSize": "30",
    "MaxNumOfDelta": "200",
    "MaxDeltaRatio": "55",
    "DefaultDeltaType": "I",
    "WeeklyInFileDeltaSchedule": {
      "Day": ["I", "D", "I", "D", "I", "D", "I"]
    }
  },
}
```

### Example (legacy-v8 Backup Set):

#### Input - To update a Monthly In-file Delta setting

```
{
  "SysUser":"system",
  "SysPwd":"system",
  "LoginName":"test",
  "BackupSetID":"1498728005287",
  "InFileDeltaSettings":{
    "Enabled":true,
    "MinDeltaFileSize":"30",
    "MaxNumOfDelta":"200",
    "MaxDeltaRatio":"55",
    "DefaultDeltaType":"I",
    "MonthlyInFileDeltaSchedule":{
      "Month":["D","I","D","I","D","I","D","I","D","I","D"],
      "Date":"3"
    }
  }
}
```

### Example:

#### Input - To update a Simple retention policy

```
{
  "SysUser":"system",
  "SysPwd":"system",
  "LoginName":"test",
  "BackupSetID":"1498728005287",
  "RetentionPolicySettings":{
    "Period":"3",
    "Type":"SIMPLE",
    "Unit":"JOBS"
  }
}
```

### Example:

#### Input - To update an Advanced Daily retention policy

```
{
  "SysUser":"system",
  "SysPwd":"system",
  "LoginName":"test",
  "BackupSetID":"1498728005287",
  "RetentionPolicySettings":{
    "Type":"ADVANCED",
    "AdvancedRetentionPolicyList":[{
      "Id":"1498792738486",
      "Type":"DAILY",
      "NumbersToKeep":"3",
    }
  ]
}
}
```

**Example:**

**Input - To update an Advanced Weekly retention policy**

```
{
  "SysUser":"system",
  "SysPwd":"system",
  "LoginName":"test",
  "BackupSetID":"1498728005287",
  "RetentionPolicySettings":{
    "Period":"3",
    "Type":"ADVANCED",
    "Unit":"JOBS",
    "AdvancedRetentionPolicyList":[{
      "Id":"1498792367943",
      "Type":"WEEKLY",
      "NumbersToKeep":"3",
      "Mon":"true"
    }]
  }
}
```

**Example:**

**Input - To update an Advanced Monthly retention policy**

```
{
  "SysUser":"system",
  "SysPwd":"system",
  "LoginName":"test",
  "BackupSetID":"1498728005287",
  "RetentionPolicySettings":{
    "Type":"ADVANCED",
    "AdvancedRetentionPolicyList":[{
      "Id":"1498792747423",
      "Type":"MONTHLY",
      "Day":"12",
      "NumbersToKeep":"3",
    }]
  }
}
```

**Example:**

**Input - To update an Advanced Custom retention policy**

```
{
  "SysUser":"system",
  "SysPwd":"system",
  "LoginName":"test",
  "BackupSetID":"1498728005287",
  "RetentionPolicySettings":{
    "Type":"ADVANCED",
    "AdvancedRetentionPolicyList":[{
      "Id":"1498792796814",
      "Type":"CUSTOM",
      "Month":5,
      "Day":1,
      "Year":2016,
    }]
  }
}
```

**Example:**

**Input - To update a bandwidth control setting**

```
{
  "SysUser":"system",
  "SysPwd":"system",
  "LoginName":"test",
  "BackupSetID":"1498728005287",
  "BandwidthControlSettings":{
    "Enabled":true,
    "Mode":"Share",
    "BandwidthControlList":[
      {
        "Name":"ban1",
        "Id":"1498795406838",
        "MaxTransferRateInBitsPerSec":"25600000",
      }
    ]
  }
}
```

**Example:**

**Input - To update a filter setting**

```
{
  "SysUser":"system",
  "SysPwd":"system",
  "LoginName":"test",
  "BackupSetID":"1498728005287",
  "FilterSettings":{
    "Enabled":true,
    "FilterList":[
      {
        "Name":"update",
        "Id":"1498795942916",
        "TopDir":"C:\\test",
        "ApplyToDir":"false",
        "PatternList":[
          {"Pattern":".txt"},
          {"Pattern":".png"}
        ]
      }
    ]
  }
}
```



Example:	
	<b>Input - To update a daily schedule and custom schedule settings</b>
	<pre>{   "SysUser":"system",   "SysPwd":"system",   "LoginName":"test",   "BackupSetID":"1498728005287",   "ScheduleSettings":{     "Enable":true,     "DailyScheduleList":{       "Id":"1498800708798",       "Hour":12,       "Minute":30     },     "CustomScheduleList":{       "Id":"1498801790021",       "Hour":12,       "Minute":30,       "Date":"2017-07-01"     }   } }</pre>
	<b>Output</b>
	<pre>{   "Status":"OK" }</pre>

Example:	
	<b>Input - To update a OpenDirect setting</b>
	<pre>{   "SysUser":"system",   "SysPwd":"system",   "LoginName":"test",   "BackupSetID":"1498728005287",   "EnableOpenDirect":false }</pre>
	<b>Output - OK is returned by no change was made</b>
	<pre>{   "Status":"OK" }</pre>

Note: The OpenDirect setting cannot be changed once it was enabled when creating backupset. Create a new backup set if you need to disable OpenDirect for your backup set.

### Snippet Example:

#### Input - To update MariaDB type Backup Sets

```
{
  "SysUser": "system",
  "SysPwd": "system",
  "LoginName": "dbaccount",
  "BackupSetID": "1498728105278",

  ...

  "ApplicationSettings": {
    "@class": "com.ahsay.obx.cxp.cloud.MariaDBSettings",
    "Username": "dbuser",
    "Version": "",
    "Port": "2342",
    "Host": "127.0.0.1",
    "Id": "",
    "MysqldumpPath": "/",
    "Password": ""
  },
  ...
}
```

### Snippet Example:

#### Input – Deduplication (Incorrect Scope: "SAME\_FILES")

```
{
  "SysUser": "system",
  "SysPwd": "system",
  "LoginName": "dbaccount",
  "BackupSetID": "1498728005287",
  ...
  "DeduplicationSettings": {
    "Scope": "SAME_FILES",
    "MigrateData": false,
    "Enabled": false,
    "SettingsMigrated": false,
    "Id": "",
    "BlockSize": 262144
  },
  ...
}
```

#### Output

```
{
  "Status": "Error",
  "Message": "Cannot deserialize value of type `DeduplicationSettings$DeduplicationScope` from String `\"SAME_FILES\"`: not one of the values accepted for Enum class: [ALL_FILES, SAME_FILE]\\n at [Source: (String)\\{\\\"Type\\\": \"FILE\\\", \"Timezone\\\": \"1098\\\", \"Delete\\\": false, \"LoginName\\\": \"test\\\", \"Owner\\\": \"Aster\\\", \"DisplayOwner\\\": \"Aster\\\", \"SysUser\\\": \"system\\\", \"Os\\\": \"Windows Server 2016\\\", \"RunOnServer\\\": false, \"RunBackupSettings\\\": {...}\" [truncated 8626 chars]; line: 1, column: 8219] (through reference chain: BackupSet[\"DeduplicationSettings\\\"]->DeduplicationSettings[\"Scope\"])",
  "ExpType": "com.fasterxml.jackson.databind.exc.InvalidFormatException"
}
```

### Snippet Example:

#### Input – Deduplication (Scope: "ALL\_FILES")

```
{
  "SysUser": "api_user",
  "SysPwd": "qWeRtY123456!@#$%",
  "LoginName": "dbaccount",
  "BackupSetID": "1498728005287",
  ...
  "DeduplicationSettings": {
    "Scope": "ALL_FILES",
    "MigrateData": false,
    "Enabled": true,
    "SettingsMigrated": false,
    "Id": "",
    "BlockSize": 262144
  },
  ...
}
```

#### Output

```
{
  "Status": "OK"
}
```

## 4.2.2 AddSelectSrc

This API can be used to add additional backup source to a backup set.

The related settings can be found on the AhsayCBS web console:

- [Backup / Restore] > [User, Groups & Policies] > [Backup user] > Choose a user > [Backup Set] > Choose a backup set > [Source]

<b>URL:</b>			
<a href="https://CBS.EXAMPLE.COM/obs/api/json/AddSelectSrc.do">https://CBS.EXAMPLE.COM/obs/api/json/AddSelectSrc.do</a>			
<b>Available since version:</b>			
9.1			
<b>Parameters:</b>			
Key	Type	Descriptions	
SysUser	String	Username of an AhsayCBS System User with Admin or API role	
SysPwd	String	Password matching SysUser	
LoginName	String	User name	
BackupSetID	String	Obtainable in ListBackups API	
SelectedSrc	Array of SourceBean	One or multiple Source paths, as an array of "Src"	
<b>Return Values:</b>			
Key	Type	Descriptions	
Status	String	"OK" or "Error"	
Message	String	Error message, it exists only if status is "Error"	
ExptType	String	The type of exception, it exists only if status is "Error"	
<b>JSON Objects:</b>			
<b>SourceBean</b>			
Key	Type	Descriptions	
Src	String	Note: Special characters for JAVA must be escaped, for example, "\" must be replaced with "\\\"  Example, "Src": "Microsoft 365/Users/John.Deere@ahsay.com/Outlook/Inbox"  Example, "Src": "C:\\Testing1\\data"	
Username	String	If username and password are empty, add the 'src' without credential.	
Password	String	If username and password are empty, add the 'src' without credential.	
<b>Example:</b>			
<b>Input</b>			
<pre>{   "SysUser": "api_user",   "SysPwd": "qWeRTY123456!@#%\$",   "LoginName": "user",   "BackupSetID": "14470393821",   "SelectedSrc": [ {"Src": "C:\\New1"}, {"Src": "C:\\New2\\data"} ] }</pre>			
<b>Output</b>			
{"Status": "OK"}			

Example:	
	<b>Input with incorrect escape character (e.g. C:\ instead of C:\\)</b>
	<pre>{   "SysUser": "api_user",   "SysPwd": "qWeRtY123456!@#\$\$%",   "LoginName": "user",   "BackupSetID": "1447039383821",   "SelectedSrc": [ { "Src": "C:\New1" } ] }</pre>
	<b>Output</b>
	<pre>{   "Status": "Error",   "Message": "[Error] Parameter Src is null/empty!",   "ExptType": "com.ahsay.obs.core.dbs.c" }</pre>
Example:	
	<b>Input with incorrect escape character dividing sub-directory (e.g. \ instead of \\ )</b>
	<pre>{   "SysUser": "api_user",   "SysPwd": "qWeRtY123456!@#\$\$%",   "LoginName": "user",   "BackupSetID": "1447039383821",   "SelectedSrc": [ { "Src": "C:\\New1\data" } ] }</pre>
	<b>Output</b>
	<pre>{   "Status": "Error",   "Message": "[Error] Parameter SysUser is null!",   "ExptType": "java.io.IOException" }</pre>

## 4.2.3 RemoveSelectSrc

This API allows you to remove selected source from a backupset. Running that backup set again will no longer backup those file from the removed source.

The related settings can be found on the AhsayCBS web console:

• [Backup / Restore] > [User, Groups & Policies] > [Backup user] > Choose a user > [Backup Set] > Choose a backup set > [Source]

<b>URL:</b>			
<a href="https://CBS.EXAMPLE.COM/obs/api/json/RemoveSelectSrc.do">https://CBS.EXAMPLE.COM/obs/api/json/RemoveSelectSrc.do</a>			
<b>Available since version:</b>			
9.1			
<b>Parameters:</b>			
Key	Type	Descriptions	
SysUser	String	Username of an AhsayCBS System User with Admin or API role	
SysPwd	String	Password matching SysUser	
LoginName	String	Client user name	
BackupSetID	String	Obtainable in ListBackupsets API	
Src	String or Array of String	One or multiple Source paths  Note: Special characters for JAVA must be escaped, for example, "\" must be replaced with "\\\""	
<b>Return Values:</b>			
Key	Type	Descriptions	
Status	String	"OK" or "Error"	
Message	String	Error message, it exists only if status is "Error"	
ExptType	String	The type of exception, it exists only if status is "Error"	
<b>Example:</b>			
<b>Input (Single String)</b>			
<pre>{   "SysUser": "api_user",   "SysPwd": "qWeRtY123456!@#%\$",   "LoginName": "user",   "BackupSetID": "1462427376949",   "Src": "C:\\New1" }</pre>			
<b>Output</b>			
{"Status": "OK"}			
<b>Example:</b>			
<b>Input (Array of Strings)</b>			
<pre>{   "SysUser": "api_user",   "SysPwd": "qWeRtY123456!@#%\$",   "LoginName": "user",   "BackupSetID": "1462427376949",   "Src": ["C:\\test\\data", "C:\\New1"] }</pre>			
<b>Output</b>			
{"Status": "OK"}			

## 4.2.4 AddDeselectSrc

This API allows you to add deselected source to a backupset.  
Running that backupset will no longer backup files from deselected source.

The related settings can be found on the AhsayCBS web console:

• [Backup / Restore] > [User, Groups & Policies] > [Backup user] > Choose a user > [Backup Set] > Choose a backup set > [Source]

<b>URL:</b>			
<a href="https://CBS.EXAMPLE.COM/obs/api/json/AddDeselectSrc.do">https://CBS.EXAMPLE.COM/obs/api/json/AddDeselectSrc.do</a>			
<b>Available since version:</b>			
9.1			
<b>Parameters:</b>			
Key	Type	Descriptions	
SysUser	String	Username of an AhsayCBS System User with Admin or API role	
SysPwd	String	Password matching SysUser	
LoginName	String	Client user name	
BackupSetID	String	Obtainable in ListBackupsets API	
DeselectedSrc	Array of SourceBean	One or multiple Source paths, as an array of "Src"	
<b>Return Values:</b>			
Key	Type	Descriptions	
Status	String	"OK" or "Error"	
Message	String	Error message, it exists only if status is "Error"	
ExptType	String	The type of exception, it exists only if status is "Error"	
<b>JSON Objects:</b>			
<b>SourceBean</b>			
Key	Type	Descriptions	
Src	String	Note: Special characters for JAVA must be escaped, for example, "\" must be replaced with "\\"  Example, "Src": "C:\\New1\\data"	
Username	String	If username and password are empty, add the 'src' without credential.	
Password	String	If username and password are empty, add the 'src' without credential.	
<b>Example:</b>			
<b>Input</b>			
<pre>{   "SysUser": "api_user",   "SysPwd": "qWeRtY123456!@#%\$",   "LoginName": "user",   "BackupSetID": "1447039383821",   "DeselectedSrc": [ {"Src": "C:\\New2"} ] }</pre>			
<b>Output</b>			
{"Status": "OK"}			

**Example:****Input**

```
{
  "SysUser": "api_user",
  "SysPwd": "qWeRtY123456!@#$$%",
  "LoginName": "user",
  "BackupSetID": "1447039383821",
  "DeselectedSrc": [{"Src": "C:\\New1"}, {"Src": "C:\\New2"}]
}
```

**Output**

```
{"Status": "OK"}
```



## 4.2.5 RemoveDeselectSrc

This API allows you remove deselected source from a backupset.

The related settings can be found on the AhsayCBS web console:

- [Backup / Restore] > [User, Groups & Policies] > [Backup user] > Choose a user > [Backup Set] > Choose a backup set > [Source]

<b>URL:</b>			
<a href="https://CBS.EXAMPLE.COM/obs/api/json/RemoveDeselectSrc.do">https://CBS.EXAMPLE.COM/obs/api/json/RemoveDeselectSrc.do</a>			
<b>Available since version:</b>			
9.1			
<b>Parameters:</b>			
Key	Type	Descriptions	
SysUser	String	Username of an AhsayCBS System User with Admin or API role	
SysPwd	String	Password matching SysUser	
LoginName	String	Client user name	
BackupSetID	String	Obtainable in ListBackupset API	
Src	String or Array of String	Note: Special characters for JAVA must be escaped, for example, "\" must be replaced with "\\\""	
<b>Return Values:</b>			
Key	Type	Descriptions	
Status	String	"OK" or "Error"	
Message	String	Error message, it exists only if status is "Error"	
ExptType	String	The type of exception, it exists only if status is "Error"	
<b>Example:</b>			
<b>Input (Single Strings)</b>			
<pre>{   "SysUser": "api_user",   "SysPwd": "qWeRTY123456!@#%\$",   "LoginName": "user",   "BackupSetID": "1462427376949",   "Src": "C:\\New2" }</pre>			
<b>Output</b>			
{"Status": "OK"}			
<b>Example:</b>			
<b>Input (Array of Strings)</b>			
<pre>{   "SysUser": "api_user",   "SysPwd": "qWeRTY123456!@#%\$",   "LoginName": "user",   "BackupSetID": "1462427376949",   "Src": [ "C:\\test\\data", "C:\\New1" ] }</pre>			
<b>Output</b>			
{"Status": "OK"}			

## 4.2.6 AddSchedule (v1,v2)

This API creates new backup schedule settings on a backup set.

The related settings can be found on the AhsayCBS web console:

- [Backup / Restore] > [User, Groups & Policies] > [Backup user] > Choose a user > [Backup Set] > Choose a backup set > [Backup Schedule]

### v1 AddSchedule.do

<b>URL:</b>	<a href="https://CBS.EXAMPLE.COM/obs/api/json/AddSchedule.do">https://CBS.EXAMPLE.COM/obs/api/json/AddSchedule.do</a>
<b>Deprecated since version:</b>	7.15.6.38

### v2 AddSchedule.do

<b>URL:</b>	<a href="https://CBS.EXAMPLE.COM/obs/api/json/2/AddSchedule.do">https://CBS.EXAMPLE.COM/obs/api/json/2/AddSchedule.do</a>		
<b>Available since version:</b>	9.1		
<b>Parameters:</b>			
	<b>Key</b>	<b>Type</b>	<b>Descriptions</b>
	SysUser	String	Username of an AhsayCBS System User with Admin or API role
	SysPwd	String	Password matching SysUser
	LoginName	String	Client user name
	BackupSetID	String	Obtainable in ListBackupsets API
	Name	String	Schedule name
	Type	String	The value can be one of the following:  DAILY WEEKLY MONTHLY CUSTOM
	BackupInterval	Integer	Support Periodic Schedule backup for all backup set types  The value can be "-1" or one of the following: 1, 2, 3, 4, 5, 6, 10, 12, 15, 20, 30, 60, 120, 180, 240, 360, 480, 720 ("-1" means periodic schedule is disabled that it is a normal schedule.)
	Time	TimeBean Object	Mandatory if "BackupInterval" < 0
	FullBackup	Boolean	Must be true when "BackupInterval" > 0  If it is true, the schedule backup will run until full backup completed. Otherwise, it will be stopped after the duration specified in key "Duration" of the TimeBean in key "Time".
	SpaceFreeUpEnabled	Boolean	Remove obsolete files according to retention policy from backup destination according to retention policy
	SkipBackupEnabled	Boolean	

<b>BackupType</b>	String	<p>The value can be <i>empty</i>, or required if one of the following:</p> <p>For Exchange Server (Exchange 2003) backup set, the value must be DATABASE, DIFFERENTIAL, or LOG</p> <p>For Exchange Server backup set (Exchange 2007 or above), the value must be DATABASE or LOG</p> <p>For Hyper-V, the value must be DATABASE or INCREMENTAL</p> <p>For Lotus Domino, the value must be DATABASE or LOG</p> <p>For MS SQL Server backup set (VSS), the value must be DATABASE</p> <p>For MS SQL Server backup set (ODBC), the value must be DATABASE, DIFFERENTIAL, or LOG</p> <p>For Oracle backup set, the value must be DATABASE or LOG</p> <p>For ShadowProtect backup set, the value must be DATABASE, DIFFERENTIAL, or LOG</p> <p>For VMware backup sets (if version is VMware Server 1 or VMware Player), the value must be SKIP or POWEROFF</p> <p>For VMware backup sets (if version is VMware ESXi 5.5 / 6 / 6.5 / 6.7 / 7.0; or VMware vCenter 5.5 / 6 / 6.5 / 6.7 / 7.0), the value must be DATABASE or INCREMENTAL</p>
WeekSchedule	WeekSchedule	Mandatory for weekly schedule
MonthSchedule	MonthSchedule	Mandatory for monthly schedule
CustomSchedule	CustomSchedule	Mandatory for custom schedule
MonthlyDateType	String	<p>Mandatory for monthly schedule.</p> <p>The value can be one of the following:</p> <p>DATE CRITERIA</p>
Period	String	<p>(Optional)</p> <p>The following values can be set: AM PM</p> <p>If the parameter "Period" is specified as AM or PM then the parameter "Hour" is in 12-hour format. "1", "2", ... "12" can be set.</p> <p>If the parameter "Period" is not specified, then the parameter "Hour" will default to 24-hour format. "0", "1"... "23" can be set.</p>

JSON Objects:		
<b>TimeBean</b>		
Key	Type	Descriptions
Hour	Integer	
Minute	Integer	
Duration	Integer	(optional) If no value is specified default value = -1  The value can be one of the following:  until full backup completed = -1 stop backup after xx hours = 1 to 24  Must be -1 when "BackupInterval" > 0
<b>WeekSchedule</b>		
Key	Type	Descriptions
Sun	Boolean	
Mon	Boolean	
Tue	Boolean	
Wed	Boolean	
Thu	Boolean	
Fri	Boolean	
Sat	Boolean	
<b>MonthSchedule</b>		
Key	Type	Descriptions
Occurrence	String	The value can be one of the following:  First Second Third Fourth Last
Criteria		The value can be one of the following:  Sunday Monday Tuesday Wednesday Thursday Friday Saturday Weekday Weekend
Date	Integer	
<b>CustomSchedule</b>		
Key	Type	Descriptions
Year	Integer	In yyyy format
Month	Integer	In MM format
Day	Integer	In dd format

Return Values:		
Key	Type	Descriptions
Status	String	"OK" or "Error"
Message	String	Error message, it exists only if status is "Error"
ExptType	String	The type of exception, it exists only if status is "Error"

**Example:****Input Daily schedule**

```
{
  "SysUser": "api_user",
  "SysPwd": "qWeRtY123456!@#$$%",
  "LoginName": "user",
  "BackupSetID": "1462500845713",
  "Name": "DAILYTEST",
  "Type": "DAILY",
  "BackupInterval": 5,
  "FullBackup": true,
  "SpaceFreeUpEnabled": false,
  "SkipBackupEnabled": false
}
```

**Output**

```
{"Status": "OK"}
```

**Example:****Input Weekly schedule**

```
{
  "SysUser": "api_user",
  "SysPwd": "qWeRtY123456!@#$$%",
  "LoginName": "user",
  "BackupSetID": "1462500845713",
  "Name": "WEEKLYTEST",
  "Type": "WEEKLY",
  "BackupInterval": -1,
  "FullBackup": true,
  "Time": {
    "Hour": 08,
    "Minute": 00
  },
  "SpaceFreeUpEnabled": true,
  "SkipBackupEnabled": true,
  "WeekSchedule": {
    "Sun": true,
    "Mon": true,
    "Tue": true,
    "Wed": false,
    "Thu": false,
    "Fri": true,
    "Sat": true
  }
}
```

**Output**

```
{"Status": "OK"}
```

**Example:**

**Input Incorrect Value for BackupInterval**

```
{
  "SysUser": "api_user",
  "SysPwd": "qWeRtY123456!@#%$",
  "LoginName": "user",
  "BackupSetID": "1462500845713",
  "Name": "DAILYTEST",
  "Type": "DAILY",
  "BackupInterval": 9,
  "FullBackup": true,
  "SpaceFreeUpEnabled": false,
  "SkipBackupEnabled": false
}
```

**Output**

```
"Status": "Error",
"Message": "ScheduleSettings parameter BackupInterval only can be -1 OR one of the following value: [1, 2, 3, 4, 5, 6, 10, 12, 15, 20, 30, 60, 120, 180, 240, 480, 720]",
"ExptType": "com.ahsay.obs.core.dbs.DbsException"
```

## 4.2.7 UpdateSchedule (v1,v2)

This API updates the backup schedule settings on a backup set. It will preserve existing values.

The related settings can be found on the AhsayCBS web console:

- [Backup / Restore] > [User, Groups & Policies] > [Backup user] > Choose a user > [Backup Set] > Choose a backup set > [Backup Schedule]

### v1 UpdateSchedule.do

<b>URL:</b>	
	<a href="https://CBS.EXAMPLE.COM/obs/api/json/UpdateSchedule.do">https://CBS.EXAMPLE.COM/obs/api/json/UpdateSchedule.do</a>
<b>Deprecated since version:</b>	
	7.15.6.38

### v2 UpdateSchedule.do

<b>URL:</b>		
	<a href="https://CBS.EXAMPLE.COM/obs/api/json/2/UpdateSchedule.do">https://CBS.EXAMPLE.COM/obs/api/json/2/UpdateSchedule.do</a>	
<b>Available since version:</b>		
	9.1	
<b>Parameters:</b>		
Key	Type	Descriptions
<b>SysUser</b>	String	Username of an AhsayCBS System User with Admin or API role
<b>SysPwd</b>	String	Password matching SysUser
<b>LoginName</b>	String	Client user name
<b>BackupSetID</b>	String	Obtainable by calling the ListBackupsets API
<b>ID</b>	String	Schedule ID obtainable by calling the GetBackupset API
Name	String	Schedule name
Type	String	The value can be one of the following:  DAILY WEEKLY MONTHLY CUSTOM
<b>BackupInterval</b>	Integer	Support periodic schedule backup for all backup set types  The value can be "-1" or one of the following: 1, 2, 3, 4, 5, 6, 10, 12, 15, 20, 30, 60, 120, 180, 240, 360, 480, 720 ("-1" means periodic schedule is disabled that it is a normal schedule.)
<b>Time</b>	TimeBean	Mandatory if "BackupInterval" < 0
FullBackup	Boolean	Enable to backup all files  If it is true, the schedule backup will run until full backup completed. Otherwise, it will be stopped after the duration specified in key "Duration" of the TimeBean in key "Time".  Must be <i>true</i> when "BackupInterval" > 0
SpaceFreeUpEnabled	Boolean	Remove obsolete files according to retention policy from backup destination according to retention policy
SkipBackupEnabled	Boolean	

BackupType	String	<p>The value can be <i>empty</i>, or required if one of the following:</p> <p>For Exchange Server (Exchange 2003) backup set, the value must be DATABASE, DIFFERENTIAL, or LOG</p> <p>For Exchange Server backup set (Exchange 2007 or above), the value must be DATABASE or LOG</p> <p>For Hyper-V, the value must be DATABASE or INCREMENTAL</p> <p>For Lotus Domino, the value must be DATABASE or LOG</p> <p>For MS SQL Server backup set (VSS), the value must be DATABASE</p> <p>For MS SQL Server backup set (ODBC), the value must be DATABASE, DIFFERENTIAL, or LOG</p> <p>For Oracle backup set, the value must be DATABASE or LOG</p> <p>For ShadowProtect backup set, the value must be DATABASE, DIFFERENTIAL, or LOG</p> <p>For VMware backup sets (if version is VMware Server 1 or VMware Player), the value must be SKIP or POWEROFF</p> <p>For VMware backup sets (if version is VMware ESXi 5.5 / 6 / 6.5 / 6.7 / 7.0; or VMware vCenter 5.5 / 6 / 6.5 / 6.7 / 7.0), the value must be DATABASE or INCREMENTAL</p>
WeekSchedule	WeekSchedule	Mandatory for weekly schedule
MonthSchedule	MonthSchedule	Mandatory for monthly schedule
CustomSchedule	CustomSchedule	Mandatory for custom schedule
MonthlyDateType	String	<p>Mandatory for monthly schedule.</p> <p>The value can be one of the following:</p> <p>DATE CRITERIA</p>
Period	String	<p>(Optional)</p> <p>The following values can be set: AM PM</p> <p>If the parameter "Period" is specified as AM or PM then the parameter "Hour" is in 12-hour format. "1", "2", ... "12" can be set.</p> <p>If the parameter "Period" is not specified, then the parameter "Hour" will default to 24-hour format. "0", "1" ... "23" can be set.</p>



JSON Objects:		
<b>TimeBean</b>		
Key	Type	Descriptions
Hour	Integer	
Minute	Integer	
Duration	Integer	(optional) If no value is specified default value = -1  The value can be one of the following:  until full backup completed = -1 stop backup after xx hours = 1 to 24  Must be -1 when "BackupInterval" > 0
<b>WeekSchedule</b>		
Key	Type	Descriptions
Sun	Boolean	
Mon	Boolean	
Tue	Boolean	
Wed	Boolean	
Thu	Boolean	
Fri	Boolean	
Sat	Boolean	
<b>MonthSchedule</b>		
Key	Type	Descriptions
Occurrence	String	The value can be one of the following:  First Second Third Fourth Last
Criteria		The value can be one of the following:  Sunday Monday Tuesday Wednesday Thursday Friday Saturday Weekday Weekend
Date	Integer	
<b>CustomSchedule</b>		
Key	Type	Descriptions
Year	Integer	In yyyy format
Month	Integer	In MM format
Day	Integer	In dd format

Return Values:		
Key	Type	Descriptions
Status	String	"OK" or "Error"
Message	String	Error message, it exists only if status is "Error"
ExptType	String	The type of exception, it exists only if status is "Error"

**Example:**

**Input Daily schedule**

```
{
  "SysUser": "api_user",
  "SysPwd": "qWeRtY123456!@#%$",
  "LoginName": "user",
  "BackupSetID": "1462500845713",
  "ID": "1500412193490",
  "Name": "DAILYTEST",
  "Type": "DAILY",
  "FullBackup": true,
  "Time": {
    "Hour": 21,
    "Minute": 30
  },
  "SpaceFreeUpEnabled": true,
  "SkipBackupEnabled": true
}
```

**Output**

```
{"Status": "OK"}
```

## 4.2.8 RemoveSchedule

This API removes a schedule from a backupset.

The related settings can be found on the AhsayCBS web console:

- [Backup / Restore] > [User, Groups & Policies] > [Backup user] > Choose a user > [Backup Set] > Choose a backup set > [Backup Schedule]

URL:			
			<a href="https://CBS.EXAMPLE.COM/obs/api/json/RemoveSchedule.do">https://CBS.EXAMPLE.COM/obs/api/json/RemoveSchedule.do</a>
Available since version:			
			9.1
Parameters:			
	Key	Type	Descriptions
	SysUser	String	Username of an AhsayCBS System User with Admin or API role
	SysPwd	String	Password matching SysUser
	LoginName	String	Client user name
	BackupSetID	String	Obtainable by calling the ListBackupsets API
	ID	String or Array of String String	Schedule ID obtainable by calling the GetBackupset API
Return Values:			
	Key	Type	Descriptions
	Status	String	"OK" or "Error"
	Message	String	Error message, it exists only if status is "Error"
	ExptType	String	The type of exception, it exists only if status is "Error"

Example:	
	Input
	<pre>{   "SysUser": "api_user",   "SysPwd": "qWeRtY123456!@#\$%",   "LoginName": "user",   "BackupSetID": "1462500845713",   "ID": "1462954693866" }</pre>
	Output
	<pre>{"Status": "OK"}</pre>

## 4.2.9 AddFilter

This API allows you to add filter to the backup source of a backup set. You can choose to include or exclude files which match a specific pattern.

The related settings can be found on the AhsayCBS web console:

- [Backup / Restore] > [User, Groups & Policies] > [Backup user] > Choose a user > [Backup Set] > Choose a backup set > [Source] > Enable Apply filter to the backup source

URL:		
	<a href="https://CBS.EXAMPLE.COM/obs/api/json/AddFilter.do">https://CBS.EXAMPLE.COM/obs/api/json/AddFilter.do</a>	
Available since version:		
	9.1	
Parameters:		
Key	Type	Descriptions
SysUser	String	Username of an AhsayCBS System User with Admin or API role
SysPwd	String	Password matching SysUser
LoginName	String	Client user name
BackupSetID	String	Obtainable in ListBackupset API
Name	String	Filter name
TopDir	String	Appying the filter to this specific folder
Type	String	The value can be one of the following:  DEFAULT CUSTOM
Include	Boolean	For each of the matched files/folders under top directory: Exclude or include them
Only	Boolean	If it is set to true, it will not include all unmatched files/folders If it is set to false, it will include all unmatched files/folders
Apply2Dir	Boolean	Apply filter to files
Apply2File	Boolean	Apply filter to folders
Patterns	Array of PatternBean	
Username	String	If username and password are empty, add the address without credential.
Password	String	If username and password are empty, add the address without credential.
Return Values:		
Key	Type	Descriptions
Status	String	"OK" or "Error"
Message	String	Error message, it exists only if status is "Error"
ExptType	String	The type of exception, it exists only if status is "Error"
JSON Objects:		
PatternBean		
Key	Type	Descriptions
Pattern	String	

**Example:****Input**

```
{
  "SysUser": "api_user",
  "SysPwd": "qWeRtY123456!@#%$",
  "LoginName": "user",
  "BackupSetID": "1462427376949",
  "Name": "filter1",
  "TopDir": "C:\\test",
  "Type": "DEFAULT",
  "Include": false,
  "Only": true,
  "Apply2Dir": true,
  "Apply2File": true,
  "Patterns": [
    {
      "Pattern": ".txt"
    },
    {
      "Pattern": ".png"
    }
  ]
}
```

**Output**

```
{"Status": "OK"}
```

## 4.2.10 UpdateFilter

This API update setting of a filter from a backup set.

The related settings can be found on the AhsayCBS web console:

- [Backup / Restore] > [User, Groups & Policies] > [Backup user] > Choose a user > [Backup Set] > Choose a backup set > [Source] > Enable Apply filter to the backup source

<b>URL:</b>			
<a href="https://CBS.EXAMPLE.COM/obs/api/json/UpdateFilter.do">https://CBS.EXAMPLE.COM/obs/api/json/UpdateFilter.do</a>			
<b>Available since version:</b>			
9.1			
<b>Parameters:</b>			
Key	Type	Descriptions	
SysUser	String	Username of an AhsayCBS System User with Admin or API role	
SysPwd	String	Password matching SysUser	
LoginName	String	Client user name	
BackupSetID	String	Obtainable by calling the ListBackupsets API	
ID	String	Filter ID, obtainable by calling the GetBackupset API	
Name	String	Filter name	
TopDir	String	Applying the filter to this specific folder	
Type	String	The value can be one of the following:  DEFAULT CUSTOM	
Include	Boolean	For each of the matched files/folders under top directory: Exclude or include them	
Only	Boolean	If it is set to true, it will not include all unmatched files/folders If it is set to false, it will include all unmatched files/folders	
Apply2Dir	Boolean	Apply filter to files	
Apply2File	Boolean	Apply filter to folders	
Patterns	Array of PatternBean		
Username	String	If username and password are empty, add the address without credential.	
Password	String	If username and password are empty, add the address without credential.	
<b>Return Values:</b>			
Key	Type	Descriptions	
Status	String	"OK" or "Error"	
Message	String	Error message, it exists only if status is "Error"	
ExptType	String	The type of exception, it exists only if status is "Error"	
<b>JSON Objects:</b>			
<b>PatternBean</b>			
Key	Type	Descriptions	
Pattern	String		
<b>Example:</b>			
<b>Input Update the name</b>			
<pre>{   "SysUser": "api_user",   "SysPwd": "qWeRtY123456!@#%\$",   "LoginName": "user",   "BackupSetID": "1462427376949",   "ID": "1462435805951",   "Name": "filter2updated", }</pre>			
<b>Output</b>			
{"Status": "OK"}			

**Example:****Input Update the pattern**

```
{
  "SysUser": "system",
  "SysPwd": "system",
  "LoginName": "opendirect",
  "BackupSetID": "1497925931498",
  "ID": "1497945864738",
  "Name": "testupdated",
  "Patterns": [
    {
      "Pattern": ".txt123"
    },
    {
      "Pattern": ".png123"
    }
  ]
}
```

**Output**

```
{
  "Status": "OK"
}
```

## 4.2.11 RemoveFilter

This API allows you to remove a filter from a backup set

The related settings can be found on the AhsayCBS web console:

- [Backup / Restore] > [User, Groups & Policies] > [Backup user] > Choose a user > [Backup Set] > Choose a backup set > [Source] > Enable Apply filter to the backup source

<b>URL:</b>		
<a href="https://CBS.EXAMPLE.COM/obs/api/json/RemoveFilter.do">https://CBS.EXAMPLE.COM/obs/api/json/RemoveFilter.do</a>		
<b>Available since version:</b>		
9.1		
<b>Parameters:</b>		
Key	Type	Descriptions
SysUser	String	Username of an AhsayCBS System User with Admin or API role
SysPwd	String	Password matching SysUser
LoginName	String	Client user name
BackupSetID	String	Obtainable by calling the ListBackupsets API
ID	String or Array of String	Filter obtainable by calling the GetBackupset API
<b>Return Values:</b>		
Key	Type	Descriptions
Status	String	"OK" or "Error"
Message	String	Error message, it exists only if status is "Error"
ExptType	String	The type of exception, it exists only if status is "Error"
<b>Example:</b>		
<b>Input</b>		
<pre>{   "SysUser": "api_user",   "SysPwd": "qWeRtY123456!@#\$\$%",   "LoginName": "user",   "BackupSetID": "1462427376949",   "ID": "1462435805951" }</pre>		
<b>Output</b>		
{"Status": "OK"}		



## 4.2.12 RemoveBandwidthControl

This API can be used to remove a bandwidth control setting from a backup set

The related settings can be found on the AhsayCBS web console:

- [Backup / Restore] > [User, Groups & Policies] > [Backup user] > Choose a user > [Backup Set] > Choose a backup set > [Bandwidth Control]

<b>URL:</b>			
<a href="https://CBS.EXAMPLE.COM/obs/api/json/RemoveBandwidthControl.do">https://CBS.EXAMPLE.COM/obs/api/json/RemoveBandwidthControl.do</a>			
<b>Available since version:</b>			
9.1			
<b>Parameters:</b>			
Key	Type	Descriptions	
SysUser	String	Username of an AhsayCBS System User with Admin or API role	
SysPwd	String	Password matching SysUser	
LoginName	String	Client user name	
BackupSetID	String	Obtainable by calling the ListBackupsets API	
ID	String or Array of String	Bandwidth control ID(s) obtainable by calling the GetBackupset API	
<b>Return Values:</b>			
Key	Type	Descriptions	
Status	String	"OK" or "Error"	
Message	String	Error message, it exists only if status is "Error"	
ExptType	String	The type of exception, it exists only if status is "Error"	
<b>Example:</b>			
<b>Input</b>			
<pre>{   "SysUser": "api_user",   "SysPwd": "qWeRtY123456!@#\$\$%",   "LoginName": "user",   "BackupSetID": "1462427376949",   "ID": "1462435805951" }</pre>			
<b>Output</b>			
{"Status": "OK"}			

## 4.2.13 AddBackupSet

This API allows you to create a new backupset in a user.

Note: You may need to complement AddBackupSet, with UpdateBackupSet API.

The related settings can be found on the AhsayCBS web console:

🔗 [Backup / Restore] > [User, Groups & Policies] > [Backup user] > Choose a user > [Backup Set]

URL:			
<a href="https://CBS.EXAMPLE.COM/obs/api/json/AddBackupSet.do">https://CBS.EXAMPLE.COM/obs/api/json/AddBackupSet.do</a>			
Available since version:			
9.1			
Parameters:			
Key	Type	Descriptions	
SysUser	String	AhsayCBS's system users with admin role	
SysPwd	String	AhsayCBS's system users password with admin role	
LoginName	String	Client user name	
Platform	String	<p>'Temporary directory for storing backup files' value would be set accordingly.</p> <p>The value can be set to one of the following (lower-case):</p> <ul style="list-style-type: none"> <li>windows</li> <li>mac</li> <li>linux</li> </ul>	
BackupSetName	String	Name of the new backup set	
BackupSetType	String	<p>Backup type of the new backup set</p> <p>The value can be set to one of the following:</p> <ul style="list-style-type: none"> <li>FILE</li> <li>Cloud File</li> <li>Lotus Domino</li> <li>Lotus Notes</li> <li>MariaDB</li> <li>Microsoft Exchange Server</li> <li>Microsoft Exchange Mail (MAPI)</li> <li>Microsoft SQL Server</li> <li>Microsoft Windows Virtualization</li> <li>Microsoft Windows System Backup</li> <li>MySQL</li> <li>Office 365 Exchange Online</li> <li>Oracle Database Server</li> <li>ShadowProtect Bare Metal</li> <li>System State</li> <li>VMware Virtualization</li> </ul> <p>Default value is FILE if BackupSetType is not specified</p>	
BackupMode	String	<p>Mandatory for BackupSetType = "Microsoft SQL Server"</p> <p>Backup mode of MSSQL backup set</p> <ul style="list-style-type: none"> <li>0: VSS</li> <li>1: ODBC</li> </ul>	

VmVersion	String	<p>Mandatory for BackupSetType = "VMware Virtualization"</p> <p>The value for be set to one of the following</p> <p>APPVERSION_ESX_V2 (VMware ESX 4)  APPVERSION_ESXI_V2 (VMware ESXi 4 or above)  APPVERSION_VMSERVER1 (VMware Server 1)  APPVERSION_VMSERVER2 (VMware Server 2)  APPVERSION_WORKSTATION (VMware Workstation 6 / 6.5 / 7)  APPVERSION_WORKSTATION8 (VMware Workstation 8 or above)  APPVERSION_PLAYER (VMware Player 3 / 4 / 5 / 6 / 7 / VMware Workstation Player 12)  APPVERSION_FUSION (VMware Fusion 3 / 4)  APPVERSION_FUSION5 (VMware Fusion 5 / 6 / 7 / 8)  APPVERSION_VCENTER_V2 (VMware vCenter 4 or above)</p>
MsVmVersion	String	<p>Mandatory for BackupSetType = "Microsoft Windows Virtualization"</p> <p>The value can be set to one of the following:</p> <p>Microsoft Hyper-V Server  Microsoft Hyper-V Server R2  Microsoft Hyper-V Server R2 (Failover Cluster)  Microsoft Hyper-V Server 2012  Microsoft Hyper-V Server 2012 (Failover Cluster)  Microsoft Hyper-V Server 2012 R2  Microsoft Hyper-V Server 2012 R2 (Failover Cluster)  Microsoft Hyper-V Server 2016  Microsoft Hyper-V Server 2016 (Failover Cluster)  Microsoft Hyper-V Server 2019  Microsoft Hyper-V Server 2019 (Failover Cluster)</p>
Version	String	<p>Mandatory for BackupSetType = "Microsoft Exchange Server"</p> <p>The value can be set to one of the following:</p> <p>8 (MS Exchange Server 2007)  14 (MS Exchange Server 2010)  15 (MS Exchange Server 2013)  15.1 (MS Exchange Server 2016)  15.2 (MS Exchange Server 2019)  DAG13 (MS Exchange Server 2013 (DAG))  DAG16 (MS Exchange Server 2016 (DAG))  DAG19 (MS Exchange Server 2019 (DAG))</p>
MsMAPIExVersion	String	<p>Mandatory for BackupSetType = "Microsoft Exchange Mail (MAPI)"</p> <p>The value can be set to one of the following:</p> <p>8 (MS Exchange Server 2007)  14 (MS Exchange Server 2010)  15 (MS Exchange Server 2013)  15.1 (MS Exchange Server 2016)  15.2 (MS Exchange Server 2019)  DAG13 (MS Exchange Server 2013 (DAG))  DAG16 (MS Exchange Server 2016 (DAG))  DAG19 (MS Exchange Server 2019 (DAG))</p>

EncryptionType	String	<p>Encryption type of a new backup set</p> <p>The value can be set to one of the following:</p> <ol style="list-style-type: none"> <li>1. "DEFAULT"</li> <li>2. "PASSWORD"</li> <li>3. "CUSTOM"</li> <li>4. "" = No Encryption</li> </ol> <p>If the Encryption Type is not provided to the API = Encryption type not defined, This require the end user to define the Encryption type in the AhsayOBM/AhsayACB client for the backup set.</p> <p>If the EncryptionType = PASSWORD the BackupUserPassword must be specified.</p>
BackupUserPassword	String	<p>Used when EncryptionType = PASSWORD</p> <p>The BackupUserPassword must match with the existing user login password on the AhsayOBM/AhsayACB user account. Otherwise return error</p> <p>"The Backup User Password does not match with the existing user password"</p>
Algorithm	String	<p>Encryption algorithm of the new backup set</p> <p>The value can be set to one of the following:</p> <p>Twofish DESede AES</p> <p>Default to AES if not provided</p>
Method	String	<p>Encryption method of the new backup set</p> <p>The value can be set to one of the following</p> <p>ECB CBC</p> <p>Default to CBC if not provided</p>
Length	String	<p>Encryption key length (128-bit / 256-bit)</p> <p>The value can be set to one of the following:</p> <p>128 256</p> <p>Default to 256 if not provided</p>
Key	String	<p>Encryption key of the backup set</p> <p>The value cannot be empty</p>
RunOnServer	Boolean	<p>Run on Server setting for Cloud File and Microsoft 365 mail backup set</p> <p>If this setting is set to "True", "EncryptionType" cannot be set to empty.</p>
DestinationList	Array of Destination	<p>(Optional)</p>
EnableOpenDirect	Boolean	<p>Enable the feature of OpenDirect.</p> <p>Note: Once it is enabled or disabled, it cannot be changed later on.</p>
<b>Return Values:</b>		
<b>Key</b>	<b>Type</b>	<b>Descriptions</b>
Status	String	"OK" or "Error"
BackupSetID	String	Backup Set ID of the created backup set
Message	String	Error message, it exists only if status is "Error"
ExptType	String	The type of exception, it exists only if status is "Error"

**JSON Objects:**

**Destination**

	<b>Key</b>	<b>Type</b>	<b>Descriptions</b>
	Type	String	The value can be one of the following: OBS Local
	Name	String	(Optional)  If blank and the Type="OBS" the default value for the Name is "CBS".  If blank and the Type="Local" " the default value for the Name is "Local".

Example:	
	<b>Input</b>
	<pre>{   "SysUser": "api_user",   "SysPwd": "qWeRtY123456!@#\$%",   "LoginName": "user",   "BackupSetName": "Test_Name",   "BackupSetType": "FILE",   "EncryptionType": "CUSTOM",   "Algorithm": "AES",   "Method": "ECB",   "Length": "256",   "Key": "123456",   "DestinationList": [     {       "Name": "dest_CBS",       "Type": "OBS",     },     {       "Name": "dest_Local",       "Type": "Local",       "TopDir": "D:\\test"     }   ] }</pre>
	<b>Output</b>
	<pre>{   "Status": "OK", "BackupSetID": "1487661755456" }</pre>
Example:	
	<b>Input – Platform parameter incorrect</b>
	<pre>{   "SysUser": "api_user",   "SysPwd": "qWeRtY123456!@#\$%",   "LoginName": "user",   "BackupSetName": "Test_Name",   "BackupSetType": "FILE",   "EncryptionType": "CUSTOM",   "Algorithm": "AES",   "Method": "ECB",   "Length": "256",   "Key": "123456",   "Platform": "" }</pre>
	<b>Output</b>
	<pre>{   "Status": "Error",   "Message": "[Error] Invalid Platform. Please specify one of the following: windows / mac / linux",   "ExptType": "java.lang.Exception" }</pre>

## 4.2.14 AddAllowedIP

This API allows you to add a range of IP of users which are allowed to perform restore in their computers.

The related settings can be found on the AhsayCBS web console:

- [Backup / Restore] > [User, Groups & Policies] > [Backup user] > Choose a user > [Backup Set] > Choose a backup set > [IP Allowed for Restore]

<b>URL:</b>		
	<a href="https://CBS.EXAMPLE.COM/obs/api/json/AddAllowedIP.do">https://CBS.EXAMPLE.COM/obs/api/json/AddAllowedIP.do</a>	
<b>Available since version:</b>		
	9.1	
<b>Parameters:</b>		
Key	Type	Descriptions
SysUser	String	Username of an AhsayCBS System User with Admin or API role
SysPwd	String	Password matching SysUser
LoginName	String	Client user name
BackupSetID	String	Obtainable in ListBackupsets API
NewAllowedIP	AllowedIPBean	
<b>Return Values:</b>		
Key	Type	Descriptions
Status	String	"OK" or "Error"
Message	String	Error message, it exists only if status is "Error"
ExptType	String	The type of exception, it exists only if status is "Error"
<b>JSON Objects:</b>		
AllowedIPBean		
Key	Type	Descriptions
StartIP	String	
EndIP	String	
<b>Example:</b>		
<b>Input</b>		
<pre>{   "SysUser": "api_user",   "SysPwd": "qWeRTy123456!@#%\$",   "LoginName": "user",   "BackupSetID": "1462427376949",   "NewAllowedIP": {     "StartIP": "1.1.1.1",     "EndIP": "255.255.255.255"   } }</pre>		
<b>Output</b>		
{"Status": "OK"}		

## 4.2.15 RemoveAllowedIP

This API allows you to remove a IP range from the allowed IP list. Users whose ip is not in the allowed ip list are not able to perform restore in their computers.

The related settings can be found on the AhsayCBS web console:

- [Backup / Restore] > [User, Groups & Policies] > [Backup user] > Choose a user > [Backup Set] > Choose a backup set > [IP Allowed for Restore]

<b>URL:</b>		
<a href="https://CBS.EXAMPLE.COM/obs/api/json/RemoveAllowedIP.do">https://CBS.EXAMPLE.COM/obs/api/json/RemoveAllowedIP.do</a>		
<b>Available since version:</b>		
9.1		
<b>Parameters:</b>		
Key	Type	Descriptions
SysUser	String	Username of an AhsayCBS System User with Admin or API role
SysPwd	String	Password matching SysUser
LoginName	String	Client user name
BackupSetID	String or Array of String	Obtainable in ListBackupsets API
AllowedIP	String	ID of allowed IP to remove
<b>Return Values:</b>		
Key	Type	Descriptions
Status	String	"OK" or "Error"
Message	String	Error message, it exists only if status is "Error"
ExptType	String	The type of exception, it exists only if status is "Error"
<b>Example:</b>		
<b>Input</b>		
<pre>{   "SysUser": "api_user",   "SysPwd": "qWeRTy123456l@#%\$",   "LoginName": "user",   "BackupSetID": "1462427376949",   "AllowedIP": "1462437395739" }</pre>		
<b>Output</b>		
<pre>{"Status": "OK"}</pre>		



## 4.2.16 DeleteBackupData

This API only works for backups from version 6 or older backup clients.

<b>URL:</b>		
	<a href="https://CBS.EXAMPLE.COM/obs/api/json/DeleteBackupData.do">https://CBS.EXAMPLE.COM/obs/api/json/DeleteBackupData.do</a>	
<b>Available since version:</b>		
	9.1	
<b>Parameters:</b>		
Key	Type	Descriptions
SysUser	String	Username of an AhsayCBS System User with Admin or API role
SysPwd	String	Password matching SysUser
LoginName	String	Client user name
BackupSetID	String	Either backup set ID or backup set name should be provided
BackupSetName	String	Either backup set ID or backup set name should be provided
<b>Return Values:</b>		
Key	Type	Descriptions
Status	String	"OK" or "Error"
Message	String	Error message, it exists only if status is "Error"
ExptType	String	The type of exception, it exists only if status is "Error"

## 4.2.17 DeleteBackupFile

This API only works for backups from version 6 or older backup clients.

<b>URL:</b>		
	<a href="https://CBS.EXAMPLE.COM/obs/api/json/DeleteBackupFile.do">https://CBS.EXAMPLE.COM/obs/api/json/DeleteBackupFile.do</a>	
<b>Available since version:</b>		
	9.1	
<b>Parameters:</b>		
Key	Type	Descriptions
SysUser	String	Username of an AhsayCBS System User with Admin or API role
SysPwd	String	Password matching SysUser
LoginName	String	Client user name
BackupSetName	String	Backup set name
InBackupJob	String	Backup Job ID
Path	String	Path to the backup files
Type	String	The value can be one of the following:  F D I
BackupByJob	String	Backup Job ID
<b>Return Values:</b>		
Key	Type	Descriptions
Status	String	"OK" or "Error"
Message	String	Error message, it exists only if status is "Error"
ExptType	String	The type of exception, it exists only if status is "Error"

## 4.2.18 DeleteBackupSet

This API allows you to delete a backup set of a user.

<b>URL:</b>		
	<a href="https://CBS.EXAMPLE.COM/obs/api/json/DeleteBackupSet.do">https://CBS.EXAMPLE.COM/obs/api/json/DeleteBackupSet.do</a>	
<b>Available since version:</b>		
	9.1	
<b>Parameters:</b>		
Key	Type	Descriptions
SysUser	String	Username of an AhsayCBS System User with Admin or API role
SysPwd	String	Password matching SysUser
LoginName	String	Client user name
BackupSetID	String	Backup set ID
<b>Return Values:</b>		
Key	Type	Descriptions
Status	String	"OK" or "Error"
Message	String	Error message, it exists only if status is "Error"
ExptType	String	The type of exception, it exists only if status is "Error"
<b>Example 1:</b>		
<b>Input</b>		
	<pre>{   "SysUser": "api_user",   "SysPwd": "qWeRtY123456!@#%",   "LoginName": "user",   "BackupSetID": "1462500608140" }</pre>	
<b>Output</b>		
	<pre>{"Status": "OK"}</pre>	
<b>Example 2: Backup Set contains non-AhsayCBS destination</b>		
<b>Input</b>		
	<pre>{   "SysUser": "api_user",   "SysPwd": "qWeRtY123456!@#%",   "LoginName": "user1",   "BackupSetID": "146251678140" }</pre>	
<b>Output</b>		
	<pre>{"Status": "Error", "Message": "Cannot delete the backup set 'default-backup-set-name-1(1497858269570)' because the standard destination 'DestinationPool-1' is used. Please delete the backup set via backup client console.", "ExptType": "com.ahsay.obs.core.dbs.c"}</pre>	
<b>Example 3: Login name does not exist or incorrect</b>		
<b>Input</b>		
	<pre>{   "SysUser": "api_user",   "SysPwd": "qWeRtY123456!@#%",   "LoginName": "user12",   "BackupSetID": "146251678140" }</pre>	
<b>Output</b>		
	<pre>{"Status": "Error", "Message": "[UserCacheManager.NoSuchUserExpt] User 'user12' not found.", "ExptType": "com.ahsay.obs.core.dbs.Y"}</pre>	

#### Example 4: Backup Set ID is in correct

##### Input

```
{  
  "SysUser": "api_user",  
  "SysPwd": "qWeRtY123456!@#$$%",  
  "LoginName": "user12",  
  "BackupSetID": "146251678140"  
}
```

##### Output

```
{"Status": "Error", "Message": "Backup set '1497858261234' not found", "ExptType": "com.ahsay.obs.core.dbs.c"}
```

## 4.2.19 GetBackupJobProgress

This API can be used to retrieve current progress of a backup job.

The related settings can be found on the AhsayCBS web console at:

• [Monitoring] > [Backup / Restore Logs] > [Backup Jobs]

<b>URL:</b>		
<a href="https://CBS.EXAMPLE.COM/obs/api/json/GetBackupJobProgress.do">https://CBS.EXAMPLE.COM/obs/api/json/GetBackupJobProgress.do</a>		
<b>Available since version:</b>		
9.1		
<b>Parameters:</b>		
Key	Type	Descriptions
SysUser	String	Username of an AhsayCBS System User with Admin, API, or RO API role
SysPwd	String	Password matching SysUser
LoginName	String	Client user name
BackupSetID	String	Obtainable by calling the ListbackupSets API
DestinationID	String	Obtainable by calling the GetbackupSets API
BackupJobID	String	Obtainable by calling the GetbackupSets API
<b>Return Values:</b>		
Key	Type	Descriptions
Status	String	"OK" or "Error"
Data	Record	
Message	String	Error message, it exists only if status is "Error"
ExptType	String	The type of exception, it exists only if status is "Error"
<b>JSON Objects:</b>		
<b>Record</b>		
Key	Type	Descriptions
ID	String	
LoginName	String	Client user name
Owner	String	
UserId	String	
StartTime	String	In yyyy-MM-dd HH:mm:ss format
EndTime	String	In yyyy-MM-dd HH:mm:ss format
BackupSetID	String	
BackupSetName	String	
CurrentFilename	String	
FileUploadTime	String	In yyyy-MM-dd HH:mm:ss format
CurrentFileCount	String	
TotalFileCount	String	
UploadedFileSize	String	
TotalFileSize	String	
<b>Example:</b>		
<b>Input</b>		
<pre>{   "SysUser": "api_user",   "SysPwd": "qWeRtY123456!@#%@",   "LoginName": "user",   "BackupSetID": "1462427376949",   "DestinationID": "1462437395739",   "BackupJobID": "2017-06-16-13-59-40" }</pre>		

## Output

```
{
  "Status": "OK",
  "Data": {
    "TotalFileCount": "35",
    "CurrentFilename": "",
    "Owner": "",
    "UploadedFileSize": "55920392",
    "TotalFileSize": "55920392",
    "LoginName": "opendirect",
    "ID": "2017-06-16-13-59-40",
    "BackupSetName": "default-backup-set-name-1",
    "EndTime": "2017-06-16 14:00:24",
    "BackupSetID": "1497592595428",
    "StartTime": "2017-06-16 13:59:41",
    "UserId": "opendirect",
    "CurrentFileCount": "0",
    "FileUploadTime": ""
  }
}
```

## 4.2.20 GetBackupSet (v1,v2)

This API can be used to retrieve information of a backup set.

The related settings can be found on the AhsayCBS web console

- [Backup / Restore] > [User, Groups & Policies] > [Backup user] > Choose a user > [Backup Set] > Choose a backup set

### v1 GetBackupSet.do

<b>URL:</b>
<a href="https://CBS.EXAMPLE.COM/obs/api/json/GetBackupSet.do">https://CBS.EXAMPLE.COM/obs/api/json/GetBackupSet.do</a>
<b>Deprecated since version:</b>
7.15.6.38

### v2 GetBackupSet.do

<b>URL:</b>		
<a href="https://CBS.EXAMPLE.COM/obs/api/json/2/GetBackupSet.do">https://CBS.EXAMPLE.COM/obs/api/json/2/GetBackupSet.do</a>		
<b>Available since version:</b>		
9.1		
<b>Parameters:</b>		
Key	Type	Descriptions
SysUser	String	Username of an AhsayCBS System User with Admin, API, or RO API role
SysPwd	String	Password matching SysUser
LoginName	String	Client user name
BackupSetID	String	Obtainable in ListBackupsets API
<b>Return Values:</b>		
Key	Type	Descriptions
Status	String	"OK" or "Error"
Data	Array	Information of the backup set.
Message	String	Error message, it exists only if status is "Error"
ExptType	String	The type of exception, it exists only if status is "Error"
DeduplicationSettings	Object	Refer to DeduplicationSettings in UpdateBackupSet API
<b>JSON Objects:</b>		
<b>Data</b>		
For details on all parameters returned by GetBackupSet.do, please refer to the input parameters outlined in the <a href="#">UpdateBackupSet</a> section.		

Array (DestinationList)		
Data{}:DestinationSettings{}:DestinationList[]		
Key	Type	Descriptions
@class	String	
DataMigrationMappingMergedToIndex	Boolean	
DataMigrationStatus	String	For v6 backup set. Statuses "NotStarted", "Running", "Finished", "Verified"
DestinationKey	String	
HostName		
Id	String	
IndexMigrateLastAccess	Long	
Name	String	
Password		
Port	Long	
QuotaInfo	String	
ReadOnly		
RunDirectEnabled	Boolean	
Sslcertificates	Array	
Statistics	Object	
TopDir		
Type	String	
UserName		
UsingProxy	Boolean	
UsingSSL	Boolean	
V6ClusterMigrateLock	String	For v6 backup set. Check if other cluster nodes were performing migration "Empty" = Not running Stage 1 / No need to lock.
V6DataMigrateLock	String	Unused. For v6 backup set.
V6Index2Migrate	Boolean	For v6 backup set. False = v7+ backup set. True = Backup Set still v6 and hasn't Stage-1 (v6 index migration)

JSON Objects (Statistics):		
Data{}:DestinationSettings{}:DestinationList[]:Statistics{}		
Key	Type	Descriptions
LastBackupClientVersion	String	
LastBackupCompleteTime	Long	
LastBackupJobID	String	Date YYYY-MM-DD-HH-MM-SS
LastBackupStartTime	Long	
LastCdpBackupCompleteTime	Long	
LastCdpBackupStartTime	Long	
LastDeltaMergeTime	Long	
LastDICTime	Long	
LastDICVersion	String	
LastOffice365DSCTime	Long	
LastRestoreTime	Long	
LastStorageRebuildTime	Long	
LastSuccessBackupJobID	String	Date YYYY-MM-DD-HH-MM-SS
Pdicrun	Boolean	
TotalBackupCount	Integer	
TotalRestoreCount	Integer	
TotalRestore	Object	
LastBackup	Object	
DataArea	Object	
DedupeSaving	Object	
RetentionArea	Object	
LastRestore	Object	
TotalBackup	Object	



JSON Objects:			
Data{}:DestinationSettings{}:DestinationList[]:Statistics{}:TotalRestore{}			
Key	Type	Descriptions	
Type	String	TOTAL_RESTORE	
FileCount	Integer		
CompressedSize	Long		
UncompressedSize	Long		

JSON Objects:			
Data{}:DestinationSettings{}:DestinationList[]:Statistics{}:LastBackup{}			
Key	Type	Descriptions	
Type	String	LAST_BACKUP	
FileCount	Integer		
CompressedSize	Long		
UncompressedSize	Long		

JSON Objects:			
Data{}:DestinationSettings{}:DestinationList[]:Statistics{}:DataArea{}			
Key	Type	Descriptions	
Type	String	DATA_AREA	
FileCount	Integer		
CompressedSize	Long		
UncompressedSize	Long		

JSON Objects:			
Data{}:DestinationSettings{}:DestinationList[]:Statistics{}:DedupeSaving{}			
Key	Type	Descriptions	
Type	String	DEDUPE_SAVING	
FileCount	Integer		
CompressedSize	Long	Size after deduplication	
UncompressedSize	Long	Uncompressed original size	

JSON Objects:			
Data{}:DestinationSettings{}:DestinationList[]:Statistics{}:RetentionArea{}			
Key	Type	Descriptions	
Type	String	RETENTION_AREA	
FileCount	Integer		
CompressedSize	Long		
UncompressedSize	Long		

JSON Objects:			
Data{}:DestinationSettings{}:DestinationList[]:Statistics{}:LastRestore{}			
Key	Type	Descriptions	
Type	String	LAST_RESTORE	
FileCount	Integer		
CompressedSize	Long		
UncompressedSize	Long		

JSON Objects:			
Data{}:DestinationSettings{}:DestinationList[]:Statistics{}:TotalBackup{}			
Key	Type	Descriptions	
Type	String	TOTAL_BACKUP	
FileCount	Integer		
CompressedSize	Long		
UncompressedSize	Long		

**Example:****Input**

```
{
  "SysUser": "api_user",
  "SysPwd": "qWeRtY123456!@#%$",
  "LoginName": "user",
  "BackupSetID": "1447039383821"
}
```

**Output**

```
{
  "Status": "OK",
  "Data": {
    "Timezone": "1098",
    "Delete": false,
    "Owner": "XCH16DC",
    "DisplayOwner": "XCH16DC",
    "Os": "Windows Server 2012 R2",
    "RunBackupSettings": {
      "DestinationIDList": [],
      "Enabled": false,
      "BackupType": "",
      "BackupJobID": "",
      "Id": ""
    },
    "RunOnServer": false,
    "V6Passwords": {
      "ApplicationPassword": "",
      "WinUserAuthPassword": "",
      "Id": ""
    },
    "SelectedShortcutList": [],
    "EnsureTopDirExistenceInLogin": true,
    "PreCommandList": [],
    "PlatformSupportVMwareRunDirect": true,
    "ApplicationSupportHyperVRunDirect": false,
    "Name": "BackupSet-4",
    "FollowLink": true,
    "NasEncryptionKey": null,
    "ApplicationSupportBackupMacResourceData": false,
    "DataMigrationSettings": {
      "IntegrityCheckLastAccess": 0,
      "DataMigrationMappingStart": false,
      "Id": "",
      "MigrationProgress": {
        "ReadOnly": false,
        "CurrentMigratingFilePath": "",
        "NumOfCompletedFiles": 0,
        "Id": "",
        "TotalNumOfFiles": 0
      },
      "SpaceFreeUpLastAccess": 0
    },
    "OpenDirectEnabled": false,
    "EnableBackupEFSFile": true,
    "InFileDeltaSettings": {
      "MaxDeltaRatio": 50,
      "MonthlyInFileDeltaSchedule": {
        "Month": [
          "",
          "",
          "",
          "",
          "",
          "",
          "",
          "",
          "",
          "",
          "",
          "",
          "",
          "",
          ""
        ]
      }
    }
  }
}
```

```

        ""
        ""
    },
    "Criteria": "Friday",
    "Occurrence": "First",
    "Date": 0
},
"MinDeltaFileSize": 26214400,
"MaxNumOfDelta": 100,
"DeltaBlockSize": -1,
"DeltaMergeEnabled": false,
"UploadFullIfGenDeltaFailed": true,
"Enabled": true,
"WeeklyInFileDeltaSchedule": {
    "Day": [
        ""
        ""
        ""
        ""
        ""
        ""
        ""
        ""
        ""
    ]
},
"Id": "",
"DefaultDeltaType": "D"
},
"EncryptionSettings": {
    "Type": "PASSWORD",
    "KeyType": "encrypt",
    "InputStream": {},
    "Mode": "CBC",
    "NasKey": null,
    "Id": "",
    "Algorithm": "AES",
    "KeyLength": 256,
    "Key": "QgsSo/AkXXXTIOOVjcf/W9dcqxQKiFnVql/A9Le/N0vaP4OFGiSLM8nGXZZkDKv"
},
"LogoutType": "",
"LogRetentionDays": 60,
"UsedQuota": 0,
"FilterSettings": {
    "Enabled": false,
    "FilterList": [],
    "Id": ""
},
"DestinationSettings": {
    "ConcurrencyLevel": 1,
    "MaxDestination": 1,
    "Id": "",
    "DestinationList": [
        {
            "DestinationKey": "OBS",
            "ReadOnly": false,
            "@class": "com.ahsay.obx.cxp.obs.ObsDestination",
            "UserName": null,
            "UsingProxy": false,
            "V6DataMigrateLock": "",
            "DataMigrationStatus": "Verified",
            "Port": -1,
            "Statistics": {
                "TotalRestore": {
                    "Type": "TOTAL_RESTORE",
                    "FileCount": 0,
                    "CompressedSize": 0,
                    "UncompressedSize": 0
                },
                "LastSuccessBackupJobID": "2021-12-20-18-50-00",
                "LastBackup": {
                    "Type": "LAST_BACKUP",
                    "FileCount": 0,

```

```

        "CompressedSize": 0,
        "UncompressedSize": 0
    },
    "DataArea": {
        "Type": "DATA_AREA",
        "FileCount": 15,
        "CompressedSize": 25364000,
        "UncompressedSize": 25363867
    },
    "TotalRestoreCount": 0,
    "LastBackupJobID": "2021-12-21-18-50-00",
    "LastDICTime": 1640083839094,
    "LastOffice365DSCTime": -1,
    "DedupeSaving": {
        "Type": "DEDUPE_SAVING",
        "FileCount": 0,
        "CompressedSize": 1073626896,
        "UncompressedSize": 224354012269
    },
    "LastCdpBackupStartTime": -1,
    "LastBackupClientVersion": "9.1.0.46",
    "LastBackupCompleteTime": 1640083838617,
    "LastDeltaMergeTime": -1,
    "LastBackupStartTime": 1640083822607,
    "Pdicrun": true,
    "RetentionArea": {
        "Type": "RETENTION_AREA",
        "FileCount": 0,
        "CompressedSize": 0,
        "UncompressedSize": 0
    },
    "TotalBackupCount": 71,
    "LastRestoreTime": -1,
    "LastStorageRebuildTime": -1,
    "LastRestore": {
        "Type": "LAST_RESTORE",
        "FileCount": 0,
        "CompressedSize": 0,
        "UncompressedSize": 0
    },
    "LastCdpBackupCompleteTime": -1,
    "TotalBackup": {
        "Type": "TOTAL_BACKUP",
        "FileCount": 42,
        "CompressedSize": 1074058080,
        "UncompressedSize": 1074049508
    },
    "LastDICVersion": "9.1.0.46"
},
"Name": "AhsayCBS",
"V6Index2Migrate": false,
"Type": "OBS",
"UsingSSL": false,
"V6ClusterMigrateLock": "",
"IndexMigrateLastAccess": 0,
"DataMigrationMappingMergedToIndex": true,
"QuotalInfo": "",
"Id": "163705222297",
"Sslcertificates": [],
"RunDirectEnabled": false,
"HostName": null,
>Password": null,
"TopDir": null
}
}
},
"EffectiveOwner": "XCH16DC",
"BackupJobName": "2022-01-11-11-40-56",
"ApplicationSupportVMwareRunDirect": false,
"ReminderSettings": {
    "BackupIntervalHour": 0,

```

```

"OfflineBackupReminderComputerName": "",
"LogoutBackupReminderEnabled": false,
"BackupIntervalDay": 1,
"OfflineNotificationDay": 7,
"ShowOfflineBackupReminder": false,
"OfflineBackupEnabled": false,
"Id": "",
"LogoutBackupReminderComputerName": ""
},
"ReadOnlySelectedSourceKeyList": [],
"EffectiveFilterList": [],
"TransferSize": 262144,
"LanPassword": "",
"WorkingDir": "C:\\Users\\Administrator\\.obm\\temp",
"ApplicationSettings": {
  "Destination": {
    "V6DataMigrateLock": "",
    "Token":
"QgsSo/AXXvTIOOVjcF/W9dcqxQKiFnVqI/A9Le/N0tNPMGAXr8igAbQ+5/9CXE3GukkILgfBBBBrsFZjI9IMueBA1ZXRuWHutDqxyPSTAb
yy4202waxVB9dWQAu5QYQoxMUJJPKfyvRINswlhSwYQSRGR9Cjxpdm+Bkuh4PirT/V8S/64i7CzPqK1FYOecVORbSgxRdMUXrV8cIN+
6V3rzbKujuCvfe/PepXLnos0DTewAKA9RwXYZA2r9v3KORxkXzffTdolv3nRN4Y3N1rVBx6EAhYlnO2yaDMY3kLea3UddQo3fepMtxZNa
Amh2a2cxBMf9w+Jjc7oCdRfieMfm94lLgK2RORNKgn/cuABlpx2ry6orLIRYIvaTzAFKRHC3HNUfpRbu0aGIOH8MBcrAjqmMI5aRAj/k5
MtyM01yoepGH05VytVoB2uo9gvyoDJtWH4R7124yvyEftCom0lpctCT78jXYZedQrGbOo=",
    "LastClientSecret": null,
    "Name": "OneDrive",
    "LastAccessToken": null,
    "V6ClusterMigrateLock": "",
    "IndexMigrateLastAccess": 0,
    "DataMigrationMappingMergedToIndex": false,
    "UserID": "d750be1XYZ5f6dab",
    "ClientId": "000000004013CC26",
    "UserDisplayName": "KMT123@d750be1fb95f6dab",
    "DestinationKey": "OneDrive#d750be1fb95f6dab",
    "LastTokenExpiry": null,
    "ReadOnly": false,
    "@class": "com.ahsay.obx.cxp.obs.OneDriveDestination",
    "UsingProxy": false,
    "DataMigrationStatus": "NotStarted",
    "LastRefreshToken": null,
    "Statistics": {
      "TotalRestore": {
        "Type": "TOTAL_RESTORE",
        "FileCount": 0,
        "CompressedSize": 0,
        "UncompressedSize": 0
      },
      "LastSuccessBackupJobID": "",
      "LastBackup": {
        "Type": "LAST_BACKUP",
        "FileCount": 0,
        "CompressedSize": 0,
        "UncompressedSize": 0
      },
      "DataArea": {
        "Type": "DATA_AREA",
        "FileCount": 0,
        "CompressedSize": 0,
        "UncompressedSize": 0
      },
      "TotalRestoreCount": 0,
      "LastBackupJobID": "",
      "LastDICTime": -1,
      "LastOffice365DSCTime": -1,
      "DedupeSaving": {
        "Type": "DEDUPE_SAVING",
        "FileCount": 0,
        "CompressedSize": 0,
        "UncompressedSize": 0
      },
      "LastCdpBackupStartTime": -1,
      "LastBackupClientVersion": null,

```

```

        "LastBackupCompleteTime": -1,
        "LastDeltaMergeTime": -1,
        "LastBackupStartTime": -1,
        "Pdicrun": false,
        "RetentionArea": {
            "Type": "RETENTION_AREA",
            "FileCount": 0,
            "CompressedSize": 0,
            "UncompressedSize": 0
        },
        "TotalBackupCount": 0,
        "LastRestoreTime": -1,
        "LastStorageRebuildTime": -1,
        "LastRestore": {
            "Type": "LAST_RESTORE",
            "FileCount": 0,
            "CompressedSize": 0,
            "UncompressedSize": 0
        },
        "LastCdpBackupCompleteTime": -1,
        "TotalBackup": {
            "Type": "TOTAL_BACKUP",
            "FileCount": 0,
            "CompressedSize": 0,
            "UncompressedSize": 0
        },
        "LastDICVersion": ""
    },
    "V6Index2Migrate": false,
    "Type": "OneDrive",
    "ClientSecret": "y-U1XXJjeY-UTq9rfwmjXYZ6EXKU8vNk",
    "QuotaInfo": "",
    "LastClientId": null,
    "Id": "1637052184004",
    "RunDirectEnabled": false,
    "Location": null,
    "TopDir": ""
},
"@class": "com.ahsay.obx.cxp.cloud.CloudFileSettings",
"Version": "",
"RunOnServer": false,
"Id": ""
},
"TotalQuota": 0,
"BackupTypes": [],
"UploadPermission": true,
"Id": "1637052105431",
"ApplicationSupportOpenDirect": false,
"VerifyBucketLocationInLogin": true,
"BandwidthControlSettings": {
    "Mode": "independent",
    "Enabled": false,
    "Id": "",
    "BandwidthControlList": []
},
"ProxySettings": null,
"CloudName": "",
"ScheduleSettings": {
    "WeeklyScheduleList": [],
    "DailyScheduleList": [
        {
            "ReadOnly": false,
            "@class": "com.ahsay.obx.cxp.obs.DailySchedule",
            "Hour": 18,
            "Duration": -1,
            "V6BackupType": "",
            "Name": "Daily-1",
            "SpaceFreeUpEnabled": true,
            "Minute": 50,
            "MigratedFromCdp": false,
            "LastUpdateTime": 0,

```

```

        "BackupType": "",
        "Id": "1637052215629",
        "SkipBackupEnabled": false,
        "BackupInterval": -1
    }
},
"CustomScheduleList": [],
"MonthlyScheduleList": [],
"ComputerName": "XCH16DC",
"Enable": true,
"Id": ""
},
"DeleteTempFile": true,
"DeselectedSourceList": [],
"EncryptionKey": "QgsSo/AkXXXTIOOVjcF/W9dcqxQKiFnVql/A9Le/XYZaP4OFGiSLM8nZYXCZkDkV",
"PostCommandList": [],
"NoBackupSourceSelected": false,
"ReadOnlyDeselectedSourceKeyList": [],
"LanUsername": "Administrator",
"ClientVersion": "9.1.0.46",
"CloudFileSourceType": "OneDrive",
"LastUploadLogToServerTime": 1640083843330,
"TotalUploaded": 0,
"AllowedIPList": [
    {
        "ReadOnly": false,
        "StartIP": "0.0.0.0",
        "Id": "1637052230715",
        "EndIP": "255.255.255.255"
    }
],
"DeduplicationSettings": {
    "MigrateData": false,
    "Scope": "ALL_FILES",
    "Enabled": true,
    "SettingsMigrated": false,
    "Id": "",
    "BlockSize": 262144
},
"ApplicationSupportRunDirect": false,
"class": "com.ahsay.obx.cxp.obs.BackupSet",
"RetentionPolicySettings": {
    "AdvancedRetentionPolicyList": [],
    "Type": "SIMPLE",
    "OverlapSensitive": false,
    "Period": 7,
    "Id": "",
    "Unit": "DAYS"
},
"SubIndexType": false,
"DefaultBSetSettings": {
    "Owner": "",
    "EnfBSet": false,
    "Category": "",
    "DefBSet": false,
    "Id": ""
},
"DeltaType": "I",
"Version7Checked": false,
"ResolvedFromDefaultBset": false,
"CompressType": "",
"Type": "Cloud File",
"LocalFilesBackup": false,
"DisplayedDestination": null,
"LanDomain": "XCH16DAG.ahsay.com",
"ShadowCopyEnabled": false,
"LocalCopySettings": {
    "Zip": true,
    "DestinationPath": "",
    "SkipOffsiteBackup": false,
    "SetPermission": false,

```

```

        "Enabled": false,
        "LocalCopyRetentionPolicySettings": {
            "ReadOnly": false,
            "Enabled": false,
            "Period": 7,
            "Id": "",
            "Unit": "DAYS"
        },
        "Id": ""
    },
    "SettingsMigrated": true,
    "AllHostClientVersion": "[{\\"host\\":\\"XCH16DC\\",\\"version\\":\\"9.1.0.46\\"}]",
    "SelectedSourceList": [
        "for backup"
    ]
}

```

Example (Snippet of DeduplicationSettings):	
	<b>Input</b>
	<pre> {   "SysUser": "api_user",   "SysPwd": "qWeRtY123456!@#\$%",   "LoginName": "user",   "BackupSetID": "1498728005287" } </pre>
	<b>Output</b>
	<pre> {   ...   "DeduplicationSettings": {     "MigrateData": false,     "Scope": "ALL_FILES",     "Enabled": true,     "SettingsMigrated": false,     "Id": "",     "BlockSize": 262144   }, ... } </pre>



## 4.2.21 ListBackupFiles

This API only works for backup data backed up by version 6 or older backup clients.

<b>URL:</b>		
	<a href="https://CBS.EXAMPLE.COM/obs/api/json/ListBackupFiles.do">https://CBS.EXAMPLE.COM/obs/api/json/ListBackupFiles.do</a>	
<b>Available since version:</b>		
	9.1	
<b>Parameters:</b>		
Key	Type	Descriptions
SysUser	String	Username of an AhsayCBS System User with Admin, API, or RO API role
SysPwd	String	Password matching SysUser
LoginName	String	Client user name
BackupSetID	String	Obtainable in ListBackupsets API
BackupJobID	String	Obtainable in GetBackupsets API
Path	String	Path to the backup files
ListAll	Boolean	If it is true, all files are listed, starting from root directory
<b>Return Values:</b>		
Key	Type	Descriptions
Status	String	"OK" or "Error"
Data	Array of Backup File	
Message	String	Error message, it exists only if status is "Error"
ExptType	String	The type of exception, it exists only if status is "Error"
<b>JSON Objects:</b>		
<b>Backup File</b>		
Key	Type	Descriptions
Type	String	D is for directory, and F is for file
Name	String	
FullPath	String	Path to the file
OriginalFileSize	Long	
FileSize	Long	
BackedByJob	String	
InBackupJob	String	
LastModified	Long	
<b>Example:</b>		
<b>Input</b>		
	<pre>{   "SysUser": "api_user",   "SysPwd": "qWeRTY123456!@#%\$",   "LoginName": "legacyuser01" }</pre>	
<b>Output</b>		
	<pre>{   "Status": "OK",   "Data": [     {       "Name": "b1",       "Type": "FILE",       "ID": "1493865532152"     }   ] }</pre>	

## 4.2.22 ListBackupJobMode

This API can be used to list all backup jobs information at a specific date.

The related settings can be found on the AhsayCBS web console:

🔗 [Monitoring] > [Backup / Restore Logs] > [Backup Jobs]

<b>URL:</b>		
<a href="https://CBS.EXAMPLE.COM/obs/api/json/ListBackupJobMode.do">https://CBS.EXAMPLE.COM/obs/api/json/ListBackupJobMode.do</a>		
<b>Available since version:</b>		
9.1		
<b>Parameters:</b>		
Key	Type	Descriptions
SysUser	String	Username of an AhsayCBS System User with Admin, API, or RO API role
SysPwd	String	Password matching SysUser
LoginName	String	Client user name
BackupSetID	String	Obtainable in ListBackupsets API
BackupDate	String	In yyyy-MM-dd format
<b>Return Values:</b>		
Key	Type	Descriptions
Status	String	"OK" or "Error"
Data	Array of Record	
Message	String	Error message, it exists only if status is "Error"
ExptType	String	The type of exception, it exists only if status is "Error"
<b>JSON Objects:</b>		
<b>Record</b>		
Key	Type	Descriptions
ID	String	
LoginName	String	Client user name
Owner	String	
UserId	String	
StartTime	String	In yyyy-MM-dd HH:mm:ss format
EndTime	String	In yyyy-MM-dd HH:mm:ss format
BackupSetID	String	
BackupSetName	String	
BackupJobMode	String	The BackupJobMode response can be "R", "M", "S" R = Remote backup M = Manual backup S = Scheduled backup null = no backup
<b>Example:</b>		
<b>Input</b>		
<pre>{   "SysUser": "api_user",   "SysPwd": "qWeRtY123456!@#%\$",   "LoginName": "user",   "BackupDate": "2016-05-05" }</pre>		
<b>Output</b>		
<pre>{"Status": "OK", "Data": [{"Owner": "", "LoginName": "user", "ID": "2016-05-05-13-51-27", "BackupJobMode": "M", "BackupSetName": "default-backup-set-name-1", "EndTime": "2016-05-05 13:51:58", "BackupSetID": "1462427376949", "StartTime": "2016-05-05 13:51:28", "UserId": "user"}]}</pre>		

## 4.2.23 ListBackupJobs

This API can be used to show the basic information of all backup jobs performed by a specific user.

The related settings can be found on the AhsayCBS web console:

🔗 [Monitoring] > [Backup / Restore Logs] > [Backup Jobs]

<b>URL:</b>		
	<a href="https://CBS.EXAMPLE.COM/obs/api/json/ListBackupJobs.do">https://CBS.EXAMPLE.COM/obs/api/json/ListBackupJobs.do</a>	
<b>Available since version:</b>		
	9.1	
<b>Parameters:</b>		
Key	Type	Descriptions
SysUser	String	Username of an AhsayCBS System User with Admin, API, or RO API role
SysPwd	String	Password matching SysUser
LoginName	String	Client user name
SkipEmpty	Boolean	If it is true, backup set with no files is skipped
<b>Return Values:</b>		
Key	Type	Descriptions
Status	String	"OK" or "Error"
Data	Array of Backup Set	
Message	String	Error message, it exists only if status is "Error"
ExptType	String	The type of exception, it exists only if status is "Error"
<b>JSON Objects:</b>		
<b>Backup Set</b>		
Key	Type	Descriptions
BackupSetID	String	
Removed	Boolean	Shows whether the backup set is removed
BackupJob	Array of String	
<b>Example:</b>		
<b>Input</b>		
	<pre>{   "SysUser": "api_user",   "SysPwd": "qWeRtY123456!@#%\$",   "LoginName": "user" }</pre>	
<b>Output</b>		
	<pre>{"Status": "OK", "Data": [{"BackupJob": ["2016-05-05-13-51-27"], "BackupSetID": "1462427376949", "Removed": false}]}</pre>	

## 4.2.24 ListBackupJobStatus

This API can be used to show detail information such like destination ID and job status of all backup job performed by a specific user on a specific date.

The related settings can be found on the AhsayCBS web console:

🔗 [Monitoring] > [Backup / Restore Logs] > [Backup Jobs]

<b>URL:</b>		
<a href="https://CBS.EXAMPLE.COM/obs/api/json/ListBackupJobStatus.do">https://CBS.EXAMPLE.COM/obs/api/json/ListBackupJobStatus.do</a>		
<b>Available since version:</b>		
9.1		
<b>Parameters:</b>		
Key	Type	Descriptions
SysUser	String	Username of an AhsayCBS System User with Admin, API, or RO API role
SysPwd	String	Password matching SysUser
Owner	String	Sub admin username (if applicable)
LoginName	String	Client user name
BackupDate	String	In yyyy-MM-dd format
<b>Return Values:</b>		
Key	Type	Descriptions
Status	String	"OK" or "Error"
Data	Array of Record	
Message	String	Error message, it exists only if status is "Error"
ExptType	String	The type of exception, it exists only if status is "Error"
<b>JSON Objects:</b>		
<b>Record</b>		
Key	Type	Descriptions
ID	String	
LoginName	String	Client user name
Owner	String	Sub admin username (if user owned by sub admin)
UserId	String	
StartTime	String	In yyyy-MM-dd HH:mm:ss format
EndTime	String	In yyyy-MM-dd HH:mm:ss format
BackupJobStatus	String	Job status. BS_STOP_SUCCESS if successful backup. It varies with the errors found if failed the backup.
BackupSetID	String	
BackupSetName	String	
UploadSize	String	
RunVersion	String	
SuccessDatabase	String	
MissedDatabase	String	
SuccessVirtualMachine	String	If backup is VM type, SuccessPublicFolder is returned instead.
MissedVirtualMachine	String	If backup is VM type, MissedPublicFolder is returned instead.
SuccessPublicFolder	String	Only returned if backup is VM type
MissedPublicFolder	String	Only returned if backup is VM type
DestinationID	String	

**Example:****Input**

```
{
  "SysUser": "api_user",
  "SysPwd": "qWeRtY123456!@#%@",
  "Owner": "subadmin1",
  "LoginName": "user",
  "BackupDate": "2016-05-05"
}
```

**Output**

```
{
  "Status": "OK",
  "Data": [
    {
      "Owner": "subadmin1",
      "RunVersion": "7.6.6.0",
      "MissedPublicFolder": "",
      "LoginName": "user",
      "BackupSetName": "default-backup-set-name-1",
      "MissedDatabase": "",
      "UserId": "user",
      "BackupJobStatus": "BS_STOP_SUCCESS",
      "UploadSize": 2815658,
      "SuccessDatabase": "",
      "DestinationID": "1462427482126",
      "ID": "2016-05-05-13-51-27",
      "EndTime": "2016-05-05 13:51:58",
      "StartTime": "2016-05-05 13:51:28",
      "BackupSetID": "1462427376949",
      "SuccessPublicFolder": ""
    }
  ]
}
```

## 4.2.25 ListBackupSets

This API can be used to show name, type and ID of all backup sets of a specific user.

The related settings can be found on the AhsayCBS web console:

- [Backup / Restore] > [User, Groups & Policies] > [Backup user] > Choose a user > [Backup Set]

<b>URL:</b>		
<a href="https://CBS.EXAMPLE.COM/obs/api/json/ListBackupSets.do">https://CBS.EXAMPLE.COM/obs/api/json/ListBackupSets.do</a>		
<b>Available since version:</b>		
9.1		
<b>Parameters:</b>		
Key	Type	Descriptions
SysUser	String	Username of an AhsayCBS System User with Admin, API, or RO API role
SysPwd	String	Password matching SysUser
LoginName	String	Client user name
<b>Return Values:</b>		
Key	Type	Descriptions
Status	String	"OK" or "Error"
Data	Array of Backup Set	
Message	String	Error message, it exists only if status is "Error"
ExptType	String	The type of exception, it exists only if status is "Error"
<b>JSON Objects:</b>		
<b>Backup Set</b>		
Key	Type	Descriptions
ID	String	
Name	String	
Type	String	The value can be one of the following: FILE Cloud File Lotus Domino Lotus Notes Microsoft Exchange Server Microsoft Exchange Mail (MAPI) Microsoft SQL Server Microsoft Windows Virtualization Microsoft Windows System Backup MySQL Oracle Database Server ShadowProtect Bare Metal System State VMware Virtualization Office 365 Exchange Online

**Example:****Input**

```
{
  "SysUser": "api_user",
  "SysPwd": "qWeRtY123456!@#$$%",
  "LoginName": "user"
}
```

**Output**

```
{
  "Status": "OK",
  "Data": [
    {
      "Name": "backupset-test",
      "Type": "FILE",
      "ID": "1447039383821"
    }
  ]
}
```

## 4.2.26 RunBackup

This API can be used to start a backup for a specific user, or to cancel a pending backup job from the server initiated backup job list.

<b>URL:</b>		
<a href="https://CBS.EXAMPLE.COM/obs/api/json/RunBackup.do">https://CBS.EXAMPLE.COM/obs/api/json/RunBackup.do</a>		
<b>Available since version:</b>		
9.1		
<b>Parameters:</b>		
Key	Type	Descriptions
<b>SysUser</b>	String	Username of an AhsayCBS System User with Admin or API role
<b>SysPwd</b>	String	Password matching SysUser
<b>LoginName</b>	String	Client user name
<b>BackupSetID</b>	String	Obtainable in ListBackupsets API
CancelBackup	Boolean	This option can be used to cancel a pending backup job from the server initiated backup job list. Cannot be used to stop / cancel an in process (running) backup job.
BackupType	String	It must be empty for File, MySQL, Lotus Notes, System State, MS Exchange Mail, MS Windows Server 2008, MS VM, VMware, Cloud File, and Microsoft 365 Exchange Online backup sets. It can be one of the following values: DATABASE LOG COPY DIFFERENTIAL INCREMENTAL
<b>Return Values:</b>		
Key	Type	Descriptions
Status	String	"OK" or "Error"
Data	Array of Backup Set	
Message	String	Error message, it exists only if status is "Error"
ExptType	String	The type of exception, it exists only if status is "Error"
<b>Example:</b>		
Input		
<pre>{   "SysUser":"api_user",   "SysPwd":"qWeRtY123456!@#\$%",   "LoginName":"username",   "BackupSetID":"1462518403716" }</pre>		
Output		
<pre>{"Status":"OK"}</pre>		



## 4.2.27 AddPreCommand

This API can be used to add a pre-backup command to a backup set.

The related settings can be found on the AhsayCBS web console:

- [Backup / Restore] > [User, Groups & Policies] > [Backup user] > Choose a user > [Backup Set] > Choose a backup set > [Command Line Tool]

<b>URL:</b>			
<a href="https://CBS.EXAMPLE.COM/obs/api/json/AddPreCommand.do">https://CBS.EXAMPLE.COM/obs/api/json/AddPreCommand.do</a>			
<b>Available since version:</b>			
9.1			
<b>Parameters:</b>			
Key	Type	Descriptions	
SysUser	String	Username of an AhsayCBS System User with Admin or API role	
SysPwd	String	Password matching SysUser	
LoginName	String	Client user name	
BackupSetID	String	Obtainable in ListBackupsets API	
Name	String	Command Name	
WorkingDir	String	Directory where the command takes place	
Command	String		
Username	String	If username and password are empty, add the address without credential.	
Password	String	If username and password are empty, add the address without credential.	
<b>Return Values:</b>			
Key	Type	Descriptions	
Status	String	"OK" or "Error"	
Message	String	Error message, it exists only if status is "Error"	
ExptType	String	The type of exception, it exists only if status is "Error"	
<b>Example:</b>			
Input			
<pre>{   "SysUser":"api_user",   "SysPwd":"qWeRtY123456!@#%\$",   "LoginName":"user",   "BackupSetID":"1447039383821",   "Name":"test",   "WorkingDir":"test",   "Command":"test" }</pre>			
Output			
<pre>{"Status":"OK"}</pre>			

## 4.2.28 UpdatePreCommand

This API can be used to update a pre-backup command from a backup set.

The related settings can be found on the AhsayCBS web console:

- [Backup / Restore] > [User, Groups & Policies] > [Backup user] > Choose a user > [Backup Set] > Choose a backup set > [Command Line Tool]

<b>URL:</b>			
<a href="https://CBS.EXAMPLE.COM/obs/api/json/UpdatePreCommand.do">https://CBS.EXAMPLE.COM/obs/api/json/UpdatePreCommand.do</a>			
<b>Available since version:</b>			
9.1			
<b>Parameters:</b>			
Key	Type	Descriptions	
SysUser	String	Username of an AhsayCBS System User with Admin or API role	
SysPwd	String	Password matching SysUser	
LoginName	String	Client user name	
BackupSetID	String	Obtainable in ListBackupssets API	
ID	Long	Command ID, Obtainable in GetBackupset API	
Name	String	Command Name	
WorkingDir	String	Directory where the command takes place	
Command	String		
Username	String	If username and password are empty, add the address without credential.	
Password	String	If username and password are empty, add the address without credential.	
<b>Return Values:</b>			
Key	Type	Descriptions	
Status	String	"OK" or "Error"	
Message	String	Error message, it exists only if status is "Error"	
ExptType	String	The type of exception, it exists only if status is "Error"	
<b>Example:</b>			
<b>Input Update name</b>			
<pre>{   "SysUser": "api_user",   "SysPwd": "qWeRtY123456!@#%",   "LoginName": "user",   "BackupSetID": "1497925931498",   "ID": "1497950369669",   "Name": "newname" }</pre>			
<b>Output</b>			
{"Status": "OK"}			
<b>Example:</b>			
<b>Input Update command content</b>			
<pre>{   "SysUser": "api_user",   "SysPwd": "qWeRtY123456!@#%",   "LoginName": "user",   "BackupSetID": "1497925931498",   "ID": "1497950369669",   "Command": "newcommand" }</pre>			
<b>Output</b>			
{"Status": "OK"}			

**Example:**

	<b>Input Update working directory</b>
	<pre>{   "SysUser": "api_user",   "SysPwd": "qWeRtY123456!@#\$%",   "LoginName": "user",   "BackupSetID": "1497925931498",   "ID": "1497950369669",   "WorkingDir": "newworkingdir" }</pre>
	<b>Output</b>
	<pre>{"Status": "OK"}</pre>

## 4.2.29 RemovePreCommand

This API can be used to remove a pre-backup command from a backup set.

The related settings can be found on the AhsayCBS web console:

- [Backup / Restore] > [User, Groups & Policies] > [Backup user] > Choose a user > [Backup Set] > Choose a backup set > [Command Line Tool]

<b>URL:</b>			
<a href="https://CBS.EXAMPLE.COM/obs/api/json/RemovePreCommand.do">https://CBS.EXAMPLE.COM/obs/api/json/RemovePreCommand.do</a>			
<b>Available since version:</b>			
9.1			
<b>Parameters:</b>			
Key	Type	Descriptions	
SysUser	String	Username of an AhsayCBS System User with Admin or API role	
SysPwd	String	Password matching SysUser	
LoginName	String	Client user name	
BackupSetID	String	Obtainable in ListBackupsets API	
ID	String or Array of String	ID of precommand. Obtainable in GetBackupSet API.	
<b>Return Values:</b>			
Key	Type	Descriptions	
Status	String	"OK" or "Error"	
Message	String	Error message, it exists only if status is "Error"	
ExptType	String	The type of exception, it exists only if status is "Error"	
<b>Example:</b>			
<b>Input</b>			
<pre>{   "SysUser": "api_user",   "SysPwd": "qWeRtY123456!@#\$%",   "LoginName": "user",   "BackupSetID": "1447039383821",   "ID": "1447039523357" }</pre>			
<b>Output</b>			
{"Status": "OK"}			

## 4.2.30 AddPostCommand

This API can be used to add a post-backup command for a backup set.

The related settings can be found on the AhsayCBS web console:

- [Backup / Restore] > [User, Groups & Policies] > [Backup user] > Choose a user > [Backup Set] > Choose a backup set > [Command Line Tool]

<b>URL:</b>			
<a href="https://CBS.EXAMPLE.COM/obs/api/json/AddPostCommand.do">https://CBS.EXAMPLE.COM/obs/api/json/AddPostCommand.do</a>			
<b>Available since version:</b>			
9.1			
<b>Parameters:</b>			
Key	Type	Descriptions	
SysUser	String	Username of an AhsayCBS System User with Admin or API role	
SysPwd	String	Password matching SysUser	
LoginName	String	Client user name	
BackupSetID	String	Obtainable in ListBackupsets API	
Name	String	Command Name	
WorkingDir	String	Directory where the command takes place	
Command	String		
Username	String	If username and password are empty, add the address without credential.	
Password	String	If username and password are empty, add the address without credential.	
<b>Return Values:</b>			
Key	Type	Descriptions	
Status	String	"OK" or "Error"	
Message	String	Error message, it exists only if status is "Error"	
ExptType	String	The type of exception, it exists only if status is "Error"	
<b>Example:</b>			
Input			
<pre>{   "SysUser":"api_user",   "SysPwd":"qWeRtY123456!@#%\$",   "LoginName":"user",   "BackupSetID":"1447039383821",   "Name":"test2",   "WorkingDir":"test2",   "Command":"test2" }</pre>			
Output			
{"Status":"OK"}			

## 4.2.31 UpdatePostCommand

This API can be used to update a post-backup command for a backup set.

The related settings can be found on the AhsayCBS web console:

- [Backup / Restore] > [User, Groups & Policies] > [Backup user] > Choose a user > [Backup Set] > Choose a backup set > [Command Line Tool]

<b>URL:</b>			
<a href="https://CBS.EXAMPLE.COM/obs/api/json/UpdatePostCommand.do">https://CBS.EXAMPLE.COM/obs/api/json/UpdatePostCommand.do</a>			
<b>Available since version:</b>			
9.1			
<b>Parameters:</b>			
Key	Type	Descriptions	
SysUser	String	Username of an AhsayCBS System User with Admin or API role	
SysPwd	String	Password matching SysUser	
LoginName	String	Client user name	
BackupSetID	String	Obtainable in ListBackups API	
ID	Long	Command ID, Obtainable in GetBackupset API	
Name	String	Command Name	
WorkingDir	String	Directory where the command takes place	
Command	String		
Username	String	If username and password are empty, add the address without credential.	
Password	String	If username and password are empty, add the address without credential.	
<b>Return Values:</b>			
Key	Type	Descriptions	
Status	String	"OK" or "Error"	
Message	String	Error message, it exists only if status is "Error"	
ExptType	String	The type of exception, it exists only if status is "Error"	
<b>Example:</b>			
<b>Input Update name</b>			
<pre>{   "SysUser": "api_user",   "SysPwd": "qWeRtY123456!@#\$%",   "LoginName": "user",   "BackupSetID": "1497925931498",   "ID": "1497950369669",   "Name": "newname" }</pre>			
<b>Output</b>			
{"Status": "OK"}			
<b>Example:</b>			
<b>Input Update command content</b>			
<pre>{   "SysUser": "api_user",   "SysPwd": "qWeRtY123456!@#\$%",   "LoginName": "user",   "BackupSetID": "1497925931498",   "ID": "1497950369669",   "Command": "newcommand" }</pre>			
<b>Output</b>			
{"Status": "OK"}			

### Example:

#### Input Update working directory

```
{  
  "SysUser": "api_user",  
  "SysPwd": "qWeRtY123456!@$%",  
  "LoginName": "user",  
  "BackupSetID": "1497925931498",  
  "ID": "1497950369669",  
  "WorkingDir": "newworkingdir"  
}
```

#### Output

```
{"Status": "OK"}
```

## 4.2.32 RemovePostCommand

This API can be used to remove a post-backup command for a backup set.

<b>URL:</b>		
	<a href="https://CBS.EXAMPLE.COM/obs/api/json/RemovePostCommand.do">https://CBS.EXAMPLE.COM/obs/api/json/RemovePostCommand.do</a>	
<b>Available since version:</b>		
	9.1	
<b>Parameters:</b>		
Key	Type	Descriptions
SysUser	String	Username of an AhsayCBS System User with Admin or API role
SysPwd	String	Password matching SysUser
LoginName	String	Client user name
BackupSetID	String	Obtainable in ListBackupsets API
ID	String or Array of String	Command ID, Obtainable in GetBackupset API
<b>Return Values:</b>		
Key	Type	Descriptions
Status	String	"OK" or "Error"
Message	String	Error message, it exists only if status is "Error"
ExptType	String	The type of exception, it exists only if status is "Error"
<b>Example:</b>		
Input		
<pre>{   "SysUser": "api_user",   "SysPwd": "qWeRtY123456!@#%\$",   "LoginName": "user",   "BackupSetID": "1447039383821",   "ID": "1447039761786" }</pre>		
Output		
<pre>{"Status": "OK"}</pre>		



## 4.2.33 ListRestoreJobs

This API can be used to list all restore jobs of each backup set owned by specified user.

The related settings can be found on the AhsayCBS web console:

🔗 [\[Monitoring\]](#) > [\[Backup / Restore Logs\]](#) > [\[Restore Jobs\]](#)

<b>URL:</b>		
<a href="https://CBS.EXAMPLE.COM/obs/api/json/ListRestoreJobs.do">https://CBS.EXAMPLE.COM/obs/api/json/ListRestoreJobs.do</a>		
<b>Available since version:</b>		
9.1		
<b>Parameters:</b>		
Key	Type	Descriptions
SysUser	String	Username of an AhsayCBS System User with Admin, API, or RO API role
SysPwd	String	Password matching SysUser
LoginName	String	Client user name
<b>Return Values:</b>		
Key	Type	Descriptions
Status	String	"OK" or "Error"
Data	JSON Object	
Message	String	Error message, it exists only if status is "Error"
ExptType	String	The type of exception, it exists only if status is "Error"
<b>JSON Objects:</b>		
<b>Data</b>		
Key	Type	Descriptions
BackupSetID	String	
Removed	Boolean	Shows whether the backup set is removed
RestoreJob	Array of String	Timestamp (yyyy-MM-dd-HH-mm-ss)
<b>Example:</b>		
<b>Input</b>		
<pre>{   "SysUser": "api_user",   "SysPwd": "qWeRtY123456!@#%\$",   "LoginName": "user" }</pre>		
<b>Output</b>		
<pre>{   "Status": "OK",   "Data": [     {       "RestoreJob": [         "2019-06-20-17-47-55"       ],       "BackupSetID": "1561108312786",       "Removed": false     }   ] }</pre>		

## 4.2.34 ListRestoreJobStatus

This API can be used to list restore job status of a specified user on a particular date.

The related settings can be found on the AhsayCBS web console:

[Monitoring](#) > [Backup / Restore Logs](#) > [Restore Jobs](#)

<b>URL:</b>		
<a href="https://CBS.EXAMPLE.COM/obs/api/json/ListRestoreJobStatus.do">https://CBS.EXAMPLE.COM/obs/api/json/ListRestoreJobStatus.do</a>		
<b>Available since version:</b>		
9.1		
<b>Parameters:</b>		
Key	Type	Descriptions
SysUser	String	Username of an AhsayCBS System User with Admin, API, or RO API role
SysPwd	String	Password matching SysUser
Owner	String	Sub admin username (if applicable)
LoginName	String	Client user name
RestoreDate	String	In yyyy-MM-dd format
<b>Return Values:</b>		
Key	Type	Descriptions
Status	String	"OK" or "Error"
Data	JSON Object	
Message	String	Error message, it exists only if status is "Error"
ExptType	String	The type of exception, it exists only if status is "Error"
<b>JSON Objects:</b>		
<b>Data</b>		
Key	Type	Descriptions
ID	String	
LoginName	String	Client user name
Owner	String	Sub admin username (if user owned by sub admin)
UserId	String	
StartTime	String	In yyyy-MM-dd HH:mm:ss format
EndTime	String	In yyyy-MM-dd HH:mm:ss format
RestoreJobStatus	String	Job status. RESTORE_STOP_SUCCESS if successful restore. It varies with the errors found if failed the restore.
BackupSetID	String	
BackupSetName	String	
RestoreSize	String	
RunVersion	String	
SuccessDatabase	String	
MissedDatabase	String	
SuccessVirtualMachine	String	If backup is VM type, SuccessPublicFolder is returned instead.
MissedVirtualMachine	String	If backup is VM type, MissedPublicFolder is returned instead.
SuccessPublicFolder	String	Only returned if backup is VM type
MissedPublicFolder	String	Only returned if backup is VM type
DestinationID	String	

**Example:****Input**

```
{
  "SysUser": "api_user",
  "SysPwd": "qWeRtY123456!@#%$",
  "Owner": "subadmin1",
  "LoginName": "user",
  "RestoreDate": "2020-05-07"
}
```

**Output**

```
{
  "Status": "OK",
  "Data": [
    {
      "Owner": "",
      "RunVersion": "8.3.4.0",
      "Status": "RESTORE_STOP_SUCCESS",
      "BackupSetName": "default-backup-set-name-2",
      "LoginName": "user",
      "EndTime": "2020-05-07 13:51:57",
      "UserId": "user",
      "StartTime": "2020-05-07 13:51:56",
      "ID": "2020-05-07-13-51-56",
      "BackupSetID": "1588823892745",
      "RestoreSize": 0,
      "DestinationID": "-1588143708901"
    }
  ]
}
```

## 4.3 Report

### 4.3.1 GetBackupJobReport

This API can be used to retrieve a detailed report of a specific backup job.

The related settings can be found on the AhsayCBS web console:

🔗 [Monitoring] > [Backup / Restore Logs] > [Backup Jobs]

<b>URL:</b>		
<a href="https://CBS.EXAMPLE.COM/obs/api/json/GetBackupJobReport.do">https://CBS.EXAMPLE.COM/obs/api/json/GetBackupJobReport.do</a>		
<b>Available since version:</b>		
9.1		
<b>Parameters:</b>		
Key	Type	Descriptions
SysUser	String	Username of an AhsayCBS System User with Admin, API, or RO API role
SysPwd	String	Password matching SysUser
LoginName	String	Client user name.
Owner	String	To remove multiple users, join their login names, separated with "*".
BackupSetID	String	To remove multiple users, join their owner, separated with "*".
DestinationID	String	Obtainable in GetBackupset API.
BackupJobID	String	For backup run by OBM v6 or older, this parameter can be omitted. For backup run by OBM 7, this parameter must be provided to get correct result.
Cdp	Boolean	Obtainable in GetBackupset API.
<b>Return Values:</b>		
Key	Type	Descriptions
Status	String	"OK" or "Error"
Data	Report	
Message	String	Error message, it exists only if status is "Error"
ExptType	String	The type of exception, it exists only if status is "Error"
<b>JSON Objects:</b>		
<b>Report</b>		
Key	Type	Descriptions
ID	String	
StartTime	String	In yyyy-MM-dd HH:mm:ss format
EndTime	String	In yyyy-MM-dd HH:mm:ss format
BackupJobStatus	String	Job status. BS_STOP_SUCCESS if successful backup. It varies with the errors found if failed the bacup.
NumOfWarnEntries	Long	
NumOfErrorEntries	Long	
NumOfNewFiles	Long	
TotalNewFilesSize	Long	
TotalUnzipNewFilesSize	Long	
NewFilesZipRatio	Long	
NumOfUpdatedFiles	Long	
TotalUpdatedFilesSize	Long	
TotalUnzipUpdatedFilesSize	Long	
UpdatedFilesZipRatio	Long	
NumOfUpdatedPermissionFiles	Long	
TotalUpdatedPermissionFileSize	Long	
TotalUnzipUpdatedPermissionFilesSize	Long	
UpdatedPermissionFilesZipRatio	Long	
NumOfDeletedFiles	Long	

TotalDeletedFilesSize	Long	
TotalUnzipDeletedFilesSize	Long	
DeletedFilesZipRatio	Long	
NumOfMovedFiles	Long	
TotalMovedFilesSize	Long	
TotalUnzipMovedFilesSize	Long	
MovedFilesZipRatio	Long	
SuccessDatabase	Long	This key does not exist in VM backup.
MissedDatabase	Long	This key does not exist in VM backup.
SuccessVirtualMachine	Long	This key exists in VM backup only.
MissedVirtualMachine	Long	This key exists in VM backup only.
SuccessPublicFolder	Long	
MissedPublicFolder	Long	
info	Array of InfoLog	
new	Array of FileLog	
upd	Array of FileLog	
pmt	Array of FileLog	
del	Array of FileLog	
mov	Array of MoveLog	
cpy	Array of FileLog	
<b>InfoLog</b>		
<b>Key</b>	<b>Type</b>	<b>Descriptions</b>
Type	String	
LogType	String	
Timestamp	String	In yyyy/MM/dd HH:mm:ss format
Message	String	
<b>FileLog</b>		
<b>Key</b>	<b>Type</b>	<b>Descriptions</b>
Type	String	
LastModified	String	In yyyy/MM/dd HH:mm:ss format
Name	String	
FileSize	Long	
UnzipFilesSize	Long	
Ratio	String	
<b>MoveLog</b>		
<b>Key</b>	<b>Type</b>	<b>Descriptions</b>
Type	String	
LastModified	String	In yyyy/MM/dd HH:mm:ss format
FromFile	String	
ToFile	String	
FileSize	Long	
UnzipFilesSize	Long	
Ratio	String	

**Example:****Input**

```
{
  "SysUser": "api_user",
  "SysPwd": "qWeRtY123456!@#%$",
  "LoginName": "user",
  "BackupSetID": "1462427376949",
  "BackupJobID": "2016-05-05-13-51-27",
  "DestinationID": "1462427482126"
}
```

**Output**

```
{
  "Status": "OK",
  "Data": {
    "TotalUnzipCopiedFilesSize": 0,
    "TotalUnzipMovedFilesSize": 0,
    "Logs": [
      {
        "Message": "Saving encrypted backup set encryption keys to server...",
        "Type": "info",
        "LogType": "info",
        "Timestamp": "2016/05/05 13:51:28"
      },
      {
        "Message": "Start running pre-commands",
        "Type": "info",
        "LogType": "info",
        "Timestamp": "2016/05/05 13:51:29"
      },
      {
        "Message": "Finished running pre-commands",
        "Type": "info",
        "LogType": "info",
        "Timestamp": "2016/05/05 13:51:29"
      },
      {
        "Message": "Contact your service provider to enable [Volume Shadow Copy] support",
        "Type": "info",
        "LogType": "info",
        "Timestamp": "2016/05/05 13:51:31"
      },
      {
        "Message": "Start running post-commands",
        "Type": "info",
        "LogType": "info",
        "Timestamp": "2016/05/05 13:51:58"
      },
      {
        "Message": "Finished running post-commands",
        "Type": "info",
        "LogType": "info",
        "Timestamp": "2016/05/05 13:51:58"
      },
      {
        "FileSize": 8192,
        "Name": "C:\\",
        "Type": "new",
        "Ratio": "0%",
        "UnzipFilesSize": 8192,
        "LastModified": "2016-04-13 14:08:24"
      },
      {
        "FileSize": 4096,
        "Name": "C:\\Users",
        "Type": "new",
        "Ratio": "0%",
        "UnzipFilesSize": 4096,
        "LastModified": "2016-04-13 14:21:26"
      }
    ]
  }
}
```

```

},
{
  "FileSize": 8192,
  "Name": "C:\\Users\\Administrator",
  "Type": "new",
  "Ratio": "0%",
  "UnzipFileSize": 8192,
  "LastModified": "2016-05-05 13:51:29"
},
{
  "FileSize": 4096,
  "Name": "C:\\Users\\Administrator\\Documents",
  "Type": "new",
  "Ratio": "0%",
  "UnzipFileSize": 4096,
  "LastModified": "2016-05-05 13:50:16"
},
{
  "FileSize": 0,
  "Name": "C:\\Users\\Administrator\\Music",
  "Type": "new",
  "Ratio": "0%",
  "UnzipFileSize": 0,
  "LastModified": "2013-02-08 15:14:45"
},
{
  "FileSize": 0,
  "Name": "C:\\Users\\Administrator\\Pictures",
  "Type": "new",
  "Ratio": "0%",
  "UnzipFileSize": 0,
  "LastModified": "2013-02-08 15:14:45"
},
{
  "FileSize": 0,
  "Name": "C:\\Users\\Administrator\\Videos",
  "Type": "new",
  "Ratio": "0%",
  "UnzipFileSize": 0,
  "LastModified": "2013-02-08 15:14:45"
},
{
  "FileSize": 2814829,
  "Name": "C:\\Users\\Administrator\\Documents\\obm-win-60443-10.0.0.78-https.exe",
  "Type": "new",
  "Ratio": "5%",
  "UnzipFileSize": 2968432,
  "LastModified": "2016-04-29 15:23:44"
},
{
  "FileSize": 195,
  "Name": "C:\\Users\\Administrator\\Documents\\desktop.ini",
  "Type": "new",
  "Ratio": "51%",
  "UnzipFileSize": 402,
  "LastModified": "2013-02-08 15:14:45"
},
{
  "FileSize": 211,
  "Name": "C:\\Users\\Administrator\\Music\\desktop.ini",
  "Type": "new",
  "Ratio": "58%",
  "UnzipFileSize": 504,
  "LastModified": "2013-02-08 15:14:45"
},
{
  "FileSize": 210,
  "Name": "C:\\Users\\Administrator\\Pictures\\desktop.ini",
  "Type": "new",
  "Ratio": "58%",
  "UnzipFileSize": 504,

```

```

    "LastModified": "2013-02-08 15:14:45"
  },
  {
    "FileSize": 0,
    "Name": "C:\\Users\\Administrator\\Documents\\My Music",
    "Type": "new",
    "Ratio": "0%",
    "UnzipFileSize": 0,
    "LastModified": "2013-02-08 15:14:40"
  },
  {
    "FileSize": 213,
    "Name": "C:\\Users\\Administrator\\Videos\\desktop.ini",
    "Type": "new",
    "Ratio": "57%",
    "UnzipFileSize": 504,
    "LastModified": "2013-02-08 15:14:45"
  },
  {
    "FileSize": 0,
    "Name": "C:\\Users\\Administrator\\Documents\\My Pictures",
    "Type": "new",
    "Ratio": "0%",
    "UnzipFileSize": 0,
    "LastModified": "2013-02-08 15:14:40"
  },
  {
    "FileSize": 0,
    "Name": "C:\\Users\\Administrator\\Documents\\My Videos",
    "Type": "new",
    "Ratio": "0%",
    "UnzipFileSize": 0,
    "LastModified": "2013-02-08 15:14:40"
  }
},
"MissedPublicFolder": "",
"NumOfCopiedFiles": 0,
"NumOfNewFiles": 5,
"BackupJobStatus": "BS_STOP_SUCCESS",
"TotalMovedFileSize": 0,
"FromIp": "10.10.0.1",
"NumOfErrorEntries": 0,
"NumOfDeletedFiles": 0,
"NumOfDeletedLinkDirCount": 0,
"TotalDeletedFileSize": 0,
"MovedFilesZipRatio": "0%",
"TotalUpdatedPermissionFileSize": 0,
"ID": "2016-05-05-13-51-27",
"NumOfWarnEntries": 0,
"NumOfMovedFiles": 0,
"StartTime": "2016-05-05 13:51:28",
"SuccessPublicFolder": "",
"TotalCopiedSize": 0,
"DeletedFilesZipRatio": "0%",
"NumOfUpdatedPermissionFiles": 0,
"NumOfDeletedLinkFileCount": 0,
"NumOfUpdatedFiles": 0,
"TotalUnzipUpdatedPermissionFilesSize": 0,
"UpdatedPermissionFilesZipRatio": "0%",
"NumOfNewLinkFileCount": 0,
"MissedDatabase": "",
"NewFilesZipRatio": "5%",
"TotalUnzipUpdatedFilesSize": 0,
"UpdatedFilesZipRatio": "0%",
"NumOfNewLinkDirCount": 3,
"CopiedFilesZipRatio": "0%",
"TotalUpdatedFilesSize": 0,
"SuccessDatabase": "",
"NumOfNewDirCount": 7,
"NumOfDeletedDirCount": 0,
"EndTime": "2016-05-05 13:51:58",

```



```
"TotalUnzipDeletedFilesSize": 0,  
"TotalNewFilesSize": 2815658,  
"TotalUnzipNewFilesSize": 2970346  
}  
}
```

### 4.3.2 GetBackupJobReportSummary

This API can be used to retrieve a summary report of a backup job.

The related settings can be found on the AhsayCBS web console:

🔗 [Monitoring] > [Backup / Restore Logs] > [Backup Jobs]

<b>URL:</b>			
<a href="https://CBS.EXAMPLE.COM/obs/api/json/GetBackupJobReportSummary.do">https://CBS.EXAMPLE.COM/obs/api/json/GetBackupJobReportSummary.do</a>			
<b>Available since version:</b>			
9.1			
<b>Parameters:</b>			
Key	Type	Descriptions	
SysUser	String	Username of an AhsayCBS System User with Admin, API, or RO API role	
SysPwd	String	Password matching SysUser	
LoginName	String	Client user name	
Owner	String		
BackupSetID	String	Obtainable in GetBackupset API	
DestinationID	String	For backup run by OBM v6 or older, this parameter can be omitted. For backup run by OBM 7, this parameter must be provided to get correct result.	
BackupJobID	String	Obtainable in GetBackupset API	
Cdp	Boolean	Continuous Data Protection	
<b>Return Values:</b>			
Key	Type	Descriptions	
Status	String	"OK" or "Error"	
Data	Report		
Message	String	Error message, it exists only if status is "Error"	
ExptType	String	The type of exception, it exists only if status is "Error"	
<b>JSON Objects:</b>			
<b>Report</b>			
Key	Type	Descriptions	
ID	String	ID of the report	
StartTime	String	In yyyy-MM-dd HH:mm:ss format	
EndTime	String	In yyyy-MM-dd HH:mm:ss format	
BackupJobStatus	String	Job status. BS_STOP_SUCCESS if successful backup. It varies with the errors found if failed the backup.	
NumOfWarnEntries	Long	Number of warning during backup	
NumOfErrorEntries	Long	Number of error during backup	
NumOfNewFiles	Long	Number of new files backup	
TotalNewFilesSize	Long	Total size of new files backup	
NumOfUpdatedFiles	Long	Number of files updated	
TotalUpdatedFilesSize	Long	Total size of updated files.	
NumOfDeletedFiles	Long	Number of files deleted	
TotalDeletedFilesSize	Long	Total size of deleted files	
NumOfMovedFiles	Long	Number of files moved	
TotalMovedFilesSize	Long	Total size of moved files	
NumOfUpdatedPermissionFiles	Long	Number of files permission updated	
TotalUpdatedPermissionFileSize	Long	Total size of files permission updated	
SuccessDatabase	Long	This key does not exist in VM backup	
MissedDatabase	Long	This key does not exist in VM backup	
SuccessVirtualMachine	Long	This key exists in VM backup only	
MissedVirtualMachine	Long	This key exists in VM backup only	
SuccessPublicFolder	Long		
MissedPublicFolder	Long		

**Example:****Input**

```
{
  "SysUser": "api_user",
  "SysPwd": "qWeRtY123456!@#5%",
  "LoginName": "user",
  "BackupSetID": "1462427376949",
  "BackupJobID": "2016-05-05-13-51-27",
  "DestinationID": "1462427482126"
}
```

**Output**

```
{
  "Status": "OK",
  "Data": {
    "NumOfUpdatedPermissionFiles": 0,
    "NumOfUpdatedFiles": 0,
    "MissedPublicFolder": "",
    "NumOfCopiedFiles": 0,
    "NumOfNewFiles": 5,
    "MissedDatabase": "",
    "BackupJobStatus": "BS_STOP_SUCCESS",
    "TotalMovedFilesSize": 0,
    "NumOfErrorEntries": 0,
    "NumOfDeletedFiles": 0,
    "TotalDeletedFilesSize": 0,
    "TotalUpdatedFilesSize": 0,
    "SuccessDatabase": "",
    "TotalUpdatedPermissionFilesSize": 0,
    "ID": "2016-05-05-13-51-27",
    "NumOfMovedFiles": 0,
    "NumOfWarnEntries": 0,
    "EndTime": "2016-05-05 13:51:58",
    "StartTime": "2016-05-05 13:51:28",
    "TotalNewFilesSize": 2815658,
    "SuccessPublicFolder": "",
    "TotalCopiedSize": 0
  }
}
```

### 4.3.3 GetRestoreJobReport

This API can be used to retrieve a detailed report of a restore job.

The related settings can be found on the AhsayCBS web console:

▶ [Monitoring] > [Backup / Restore Logs] > [Restore Jobs]

<b>URL:</b>		
<a href="https://CBS.EXAMPLE.COM/obs/api/json/GetRestoreJobReport.do">https://CBS.EXAMPLE.COM/obs/api/json/GetRestoreJobReport.do</a>		
<b>Available since version:</b>		
9.1		
<b>Parameters:</b>		
Key	Type	Descriptions
SysUser	String	Username of an AhsayCBS System User with Admin, API, or RO API role
SysPwd	String	Password matching SysUser
LoginName	String	Client user name
Owner	String	
BackupSetID	String	Obtainable in GetBackupset API
JobID	String	ID of restore job. Obtainable from the client restore log or in the user home at:  %Clientprofile%\obm\log\%backupset_id%\Restore\YYYY-MM-DD\YYYY-MM-DD-hh-mm-ss.log  Or  %Userhome%\username\pdf\restore\%backupset_id%\YYYY-MM-DD\YYYY-MM-DD-hh-mm-ss.pdf  Where the JobID is YYYY-MM-DD -hh-mm-ss (e.g. file name of the .log / .pdf file).
<b>Return Values:</b>		
Key	Type	Descriptions
Status	String	"OK" or "Error"
Data	Report	
Message	String	Error message, it exists only if status is "Error"
ExptType	String	The type of exception, it exists only if status is "Error"
<b>JSON Objects:</b>		
<b>Report</b>		
Key	Type	Descriptions
ID	String	
StartTime	Long	
EndTime	Long	
FromIp	String	Restore from Ip
DestinationID	String	Restore to ID
Status	String	This key exists if restore is run by 7 client only  The value can be one of the following:  RESTORE_STOP_SUCCESS_WITH_ERROR RESTORE_STOP_SUCCESS_WITH_WARNING RESTORE_STOP_SUCCESS RESTORE_STOP_BY_USER RESTORE_STOP_BY_ERROR
TotalFileCount	Long	Total file restored
TotalFileSize	Long	Total files size restored
Logs	Array of Log	

Log		
Key	Type	Descriptions
Type	String	The value can be one of the following: file info
StartTime	Long	
EndTime	Long	
Name	String	
FileSize	Long	
UncompressedSize	Long	
LastModified	Long	
Message	String	This key exists only if "Type" is "info".
LogType	String	This key exists only if "Type" is "info".
Timestamp	String	This key exists only if "Type" is "info". It is in yyyy/MM/dd hh:mm:ss format
Example:		
Input		
<pre>{   "SysUser": "api_user",   "SysPwd": "qWeRtY123456!@#%&amp;",   "LoginName": "user",   "BackupSetID": "1462427376949",   "JobID": "2019-04-18-17-01-02" }</pre>		
Output		
<pre>{   "Status": "OK",   "Data": {     "Status": "RESTORE_STOP_SUCCESS",     "EndTime": "2019-04-18 17:01:05",     "TotalFileCount": 1,     "StartTime": "2019-04-18 17:01:02",     "TotalFileSize": 18734,     "Logs": [{       "Type": "start"     }, {       "Type": "info",       "Message": "Initializing decrypt action...",       "LogType": "info",       "Timestamp": "2019/04/18 17:01:02"     }, {       "Type": "info",       "Message": "Initializing decrypt action... Completed",       "LogType": "info",       "Timestamp": "2019/04/18 17:01:02"     }, {       "Type": "info",       "Message": "Creating new directory... \"e:\\Users\\user\\Desktop\\Work\\Restore Dest\\E_\\\"",       "LogType": "info",       "Timestamp": "2019/04/18 17:01:03"     }, {       "Type": "info",       "Message": "Creating new directory... \"e:\\Users\\user\\Desktop\\Work\\Restore Dest\\E_\\Users\\\"",       "LogType": "info",       "Timestamp": "2019/04/18 17:01:03"     }, {       "Type": "info",       "Message": "Creating new directory... \"e:\\Users\\user\\Desktop\\Work\\Restore Dest\\E_\\Users\\user\\\"",       "LogType": "info",       "Timestamp": "2019/04/18 17:01:03"     }, {       "Type": "info",       "Message": "Creating new directory... \"e:\\Users\\user\\Desktop\\Work\\Restore Rest\\E_\\Users\\user\\Desktop\\\"",       "LogType": "info",       "Timestamp": "2019/04/18 17:01:03"     }, {       "Type": "info", </pre>		

	<pre> "Message": "Creating new directory...\"e:\\Users\\user\\Desktop\\Work\\RestoreDest\\E_\\Users\\user\\ Desktop\\Work\\", "LogType": "info", "Timestamp": "2019/04/18 17:01:03" }, { "LastModified": 1528456402786, "Type": "file", "EndTime": 1555578064238, "StartTime": 1555578064225, "UncompressedSize": 21850, "Name": "e:\\Users\\user\\Desktop\\Work\\Restore Dest\\E_\\Users\\user\\Desktop\\Work\\Data Compression Rate Test.xlsx", "FileSize": 18734 }, { "Type": "end" } ], "FromIp": "127.0.0.1", "DestinationID": "1514519527054" } } </pre>
--	--

## 5 RPS API

### 5.1 RPS Receiver

#### 5.1.1 ListReceiver

This API can be used to list all the receiver and their settings.

The related settings can be found on the AhsayCBS web console:

🔗 [Replication] > [Accepting Data] > [Receiver]

<b>URL:</b>		
	<a href="https://REPLICATION.EXAMPLE.COM/rps/api/json/ListReceiver.do">https://REPLICATION.EXAMPLE.COM/rps/api/json/ListReceiver.do</a>	
<b>Available since version:</b>		
	9.1	
<b>Parameters:</b>		
Key	Type	Descriptions
SysUser	String	Username of an AhsayCBS System User with Admin, API, or RO API role
SysPwd	String	Password matching SysUser
<b>Return Values:</b>		
Key	Type	Descriptions
Status	String	"OK" or "Error"
Data	Report	
Message	String	Error message, it exists only if status is "Error"
ExptType	String	The type of exception, it exists only if status is "Error"
<b>JSON Objects:</b>		
<b>Receiver</b>		
Key	Type	Descriptions
Id	Long	
ReplicationEnabled	Boolean	Replication receiver status
LoginName	String	The login name of the replication receiver account
Password	String	The password of the replication receiver ('LoginName')
Alias	String	
ListenPort	Integer	Listen port (e.g. 9444) of the source backup server (applies to v6 only)
ListenHost	String	Bind to (example "0.0.0.0") (applies to v6 Replication)
V6ReplicationEnabled	Boolean	If v6 Replication setting is enabled or not
SystemHome	String	The Replication System Home path ("Default Home Directory") for this replication receiver.
RestoreRunning	Boolean	Restore the replication snapshot.
TrafficLimits	Array of TrafficLimit	Limit the usage of network bandwidth by the replication service.
UserHomeMappings	Array of UserHomeMapping	The source backup server user home location.
RestoringPath	String	
IPRestrictions	Array of IPRestriction	This is to restrict the range of IP to access this receiver.
RestoreStatus	String	
ObsHost	String	Backup Server host (FQDN)
ObsProtocol	String	HTTP or HTTPS
ObsSysUser	String	The system user login of the backup server, stored when Add New Receiver
ObsSysPwd	String	The system user password login of the backup server
ObsPort	Integer	The backup server connector port
ObsVersion	Integer	Integer of <b>0</b> = v6 Sender ("Before V7=Yes" in the CBS UI), <b>1</b> = v7+
RestorePointInterval	Integer	Value for the Replication Retention Setting

RetentionCustomizationPolicy	Integer	Value for the Replication Retention Setting
CrcEnabled	Boolean	Cyclic Redundancy Check (CRC) Checking (applies to v6 Replication)
CrcHour	Integer	Monthly at HH:MM (applies to v6 Replication)
CrcMinute	Integer	Monthly at HH:MM (applies to v6 Replication)

TrafficLimit		
Key	Type	Descriptions
Id	Long	
Name	String	Label name
Always	Boolean	If True, MaxTransferRate is always applied regardless of time
FromDayOfWeek	Integer	0 = Sunday, 6 = Friday
FromHour	Integer	In 24-hour format
FromMin	Integer	
ToDayOfWeek	Integer	0 = Sunday, 6 = Friday
ToHour	Integer	In 24-hour format
ToMin	Integer	
MaxTransferRate	Long	In Bytes

UserHomeMapping		
Key	Type	Descriptions
RPSDir	String	Replication Home
OBShome	String	Backup Server User Home

IPRestriction		
Key	Type	Descriptions
Id	Long	
From	String	IP Address
To	String	IP Address

#### Example:

Input
<pre>{   "SysUser": "api_user",   "SysPwd": "qWeRtY123456!@#%\$%" }</pre>
Output
<pre>{   "Status": "OK",   "Data": [     {       "Id": 1,       "ReplicationEnabled": false,       "LoginName": "myRECV-1",       "Password": "myRCVpwd",       "Alias": "Backup Server 10.1.1.5",       "ObsProtocol": "https",       "ObsHost": "10.1.1.5",       "ObsPort": 443,       "ObsVersion": 1,       "ObsSysUser": "system",       "ObsSysPwd": "system",       "V6ReplicationEnabled": false,       "MigrateFromV6": false,       "ListenHost": "0.0.0.0",       "ListenPort": 9444,       "CrcEnabled": false,       "CrcHour": 0,       "CrcMinute": 0,       "RestorePointInterval": 30,       "RetentionCustomizationPolicy": 60,       "SystemHome": "C:\\Program Files\\AhsayCBS\\system\\rps\\rcvshome\\myRECV-1",       "UserHomeMappings": [         {           "RPSDir": "C:\\Program Files\\AhsayCBS\\system\\rps\\rcvshome\\myRECV-1\\files\\C%3A\\Program Files\\AhsayCBS\\user", </pre>



```

"OBSSHome": "C:\\Program Files\\AhsayCBS\\user"
},
{
  "RPSDir": "C:\\Program Files\\AhsayCBS\\system\\rps\\rcvshome\\myRECV-1\\files\\D%3A\\CBSUserHome",
  "OBSSHome": "D:\\CBSUserHome"
}
],
"MidButtons": [],
"LatestSnapshot": "",
"RestoringPath": "",
"Classname": "com.ahsay.cbs.rps.config.receiver.EditReceiverBean",
"RestoreRunning": false,
"Update": false,
"RestoreStatus": "",
"TrafficLimits": [
  {
    "MidButtons": [],
    "TransferRateUnit": 0,
    "FromMin": 0,
    "ToMin": 0,
    "ToDayOfWeek": 6,
    "ToHour": 20,
    "Classname": "com.ahsay.cbs.rps.config.receiver.EditTrafficLimitBean",
    "FromHour": 6,
    "Name": "TrafficLimit-1",
    "RightButtons": [
      {
        "Trigger": {
          "Class": "com.ahsay.cbs.rps.config.receiver.EditTrafficLimit$1"
        },
        "OpenNewFrame": true,
        "ReadPrivilege": "",
        "ImageURL": "images/btn_ico_ok_72.png",
        "Style": "",
        "DynamicLabel": "",
        "Class": "com.ahsay.atl.jsp.ButtonInfo",
        "WritePrivilege": "",
        "LabelRes": "com.ahsay.atl.jsp.LabelInfo.OK",
        "ReadPrivileges": ""
      },
      {
        "Trigger": {
          "Class": "com.ahsay.cbs.rps.config.receiver.EditTrafficLimit$2"
        },
        "OpenNewFrame": true,
        "ReadPrivilege": "",
        "ImageURL": "images/btn_ico_cancel_72.png",
        "Style": "",
        "DynamicLabel": "",
        "WritePrivilege": "",
        "LabelRes": "com.ahsay.atl.jsp.LabelInfo.Cancel",
        "ReadPrivileges": ""
      },
      {
        "Trigger": {
          "Class": "com.ahsay.cbs.rps.config.receiver.EditTrafficLimit$3"
        },
        "OpenNewFrame": true,
        "ReadPrivilege": "",
        "ImageURL": "images/btn_ico_help_72.png",
        "Style": "",
        "DynamicLabel": "",
        "WritePrivilege": "",
        "LabelRes": "com.ahsay.atl.jsp.LabelInfo.Help",
        "ReadPrivileges": ""
      }
    ],
    "MaxTransferRate": 4194304,
    "FromDayOfWeek": 2,
    "Tabs": [],
    "Id": 1,

```

```

"Always": false,
"LeftButtons": []
}
],
"RightButtons": [
{
"Trigger": {},
"OpenNewFrame": true,
"ReadPrivilege": "",
"ImageURL": "images/btn_ico_ok_72.png",
"Style": "",
"DynamicLabel": "",
"WritePrivilege": "",
"LabelRes": "com.ahsay.atl.jsp.LabelInfo.OK",
"ReadPrivileges": ""
},
{
"Trigger": {},
"OpenNewFrame": true,
"ReadPrivilege": "",
"ImageURL": "images/btn_ico_cancel_72.png",
"Style": "",
"DynamicLabel": "",
"WritePrivilege": "",
"LabelRes": "com.ahsay.atl.jsp.LabelInfo.Cancel",
"ReadPrivileges": ""
},
{
"Trigger": {},
"OpenNewFrame": true,
"ReadPrivilege": "",
"ImageURL": "images/btn_ico_help_72.png",
"Style": "",
"DynamicLabel": "",
"WritePrivilege": "",
"LabelRes": "com.ahsay.atl.jsp.LabelInfo.Help",
"ReadPrivileges": ""
}
],
"BlockCount": 0,
"LeftButtons": [],
"RestoreDir": "",
"RestoreDisableStop": false,
"CrcEnabled": false,
"IPRestrictions": [
{
"MidButtons": [],
"RightButtons": [
{
"Trigger": {
"Class": "com.ahsay.cbs.rps.config.receiver.EditIPRestriction$1"
},
"OpenNewFrame": true,
"ReadPrivilege": "",
"ImageURL": "images/btn_ico_save_72.png",
"Style": "",
"DynamicLabel": "",
"Class": "com.ahsay.atl.jsp.ButtonInfo",
"WritePrivilege": "",
"LabelRes": "com.ahsay.atl.jsp.LabelInfo.Save",
"ReadPrivileges": ""
},
{
"Trigger": {
"Class": "com.ahsay.cbs.rps.config.receiver.EditIPRestriction$2"
},
"OpenNewFrame": true,
"ReadPrivilege": "",
"ImageURL": "images/btn_ico_cancel_72.png",
"Style": "",
"DynamicLabel": "",

```

```

        "WritePrivilege": "",
        "LabelRes": "com.ahsay.atl.jsp.LabelInfo.Cancel",
        "ReadPrivileges": ""
    },
    {
        "Trigger": {
            "Class": "com.ahsay.cbs.rps.config.receiver.EditIPRestriction$3"
        },
        "OpenNewFrame": true,
        "ReadPrivilege": "",
        "ImageURL": "images/btn_ico_help_72.png",
        "Style": "",
        "DynamicLabel": "",
        "WritePrivilege": "",
        "LabelRes": "com.ahsay.atl.jsp.LabelInfo.Help",
        "ReadPrivileges": ""
    }
],
"Tabs": [],
"Classname": "com.ahsay.cbs.rps.config.receiver.EditIPRestrictionBean",
"Id": 1,
"To": "10.1.1.29",
"From": "10.1.1.25",
"LeftButtons": []
}
],
"TrafficLimit": {},
"Tabs": [],
}
]
}

```

## 5.1.2 UpdateReceivers

This API can be used to update settings of an existing replication receiver setting. You should use ListReceiver.do to obtain the current values, to pass back values to keep along with your changes, UpdateReceivers.do is designed as overwrite mode.

The related settings can be found on the AhsayCBS web console:

🔗 [Replication] > [Accepting Data] > [Receiver]

URL:			
<a href="https://REPLICATION.EXAMPLE.COM/rps/api/json/UpdateReceivers.do">https://REPLICATION.EXAMPLE.COM/rps/api/json/UpdateReceivers.do</a>			
Available since version:			
9.1			
Parameters:			
Key	Type	Descriptions	
SysUser	String	Username of an AhsayCBS System User with Admin or API role	
SysPwd	String	Password matching SysUser	
Id	Long	Use ListReceiver.do to obtain the response output from existing 'Id', then pass it back using UpdateReceivers.do with your changes. Note: If 'Id' value is 0, a new receiver is created. This is experimental. Note: If 'Id' value does not exist as a Receiver ID, you may corrupt your CBS Receiver UI.	
ReplicationEnabled	Boolean	Enable replication of the receiver	
LoginName	String	The login name of the replication receiver account	
Password	String	The password of the replication receiver	
Alias	String		
ListenPort	Integer	Listen port (e.g. 9444) of the source backup server (applies to v6 only)	
ListenHost	String	Bind to (example "0.0.0.0") (applies to v6 Replication)	
SystemHome	String	The Replication System Home path ("Default Home Directory") for this replication receiver ID.	
RestoreRunning	Boolean	Restore the replication snapshot.	
TrafficLimits	Array of TrafficLimit	Limit the usage of network bandwidth by the replication service.	
UserHomeMappings	Array of UserHomeMapping	The source backup server user home location.	
RestoringPath	String		
IPRestrictions	Array of IPRestriction	This is to restrict the range of IP to access this receiver.	
RestoreStatus	String		
ObsVersion	Integer	Integer of <b>0</b> = v6 Sender ("Before V7=Yes" in the CBS UI), <b>1</b> = v7+	
ObsHost	String	Backup Server host (FQDN)	
ObsProtocol	String	http or https	
ObsSysUser	String	The system user login of the backup server	
ObsSysPwd	String	The system user password login of the backup server	
ObsPort	Integer	Port number complimentary to the "ObsProtocol"	
RestorePointInterval	Integer	Value for the Replication Retention Setting	
RetentionCustomizationPolicy	Integer	Value for the Replication Retention Setting	
CrcEnabled	Boolean	Cyclic Redundancy Check (CRC) Checking (applies to v6 Replication)	
CrcHour	Integer	Monthly at HH:MM (applies to v6 Replication)	
CrcMinute	Integer	Monthly at HH:MM (applies to v6 Replication)	
MigrateFromV6	Boolean		
V6ReplicationEnabled	Boolean	If v6 Replication setting is enabled, then also pass ListenPort and ListenHost Keys	
Return Values:			
Key	Type	Descriptions	
Status	String	"OK" or "Error"	
Message	String	Error message, it exists only if status is "Error"	
ExptType	String	The type of exception, it exists only if status is "Error"	

**JSON Objects:**

TrafficLimit		
Key	Type	Descriptions
Id	Long	Id of the trafficlimit
Name	String	
Always	Boolean	If True, MaxTransferRate is always applied regardless of time
FromDayOfWeek	Integer	0 = Sunday, 6 = Friday
FromHour	Integer	In 24-hour format
FromMin	Integer	
ToDayOfWeek	Integer	0 = Sunday, 6 = Friday
ToHour	Integer	In 24-hour format
ToMin	Integer	
MaxTransferRate	Long	In Bytes

UserHomeMapping		
Key	Type	Descriptions
RPSDir	String	Replication Home
OBSHome	String	Backup Server User Home

IPRestriction		
Key	Type	Descriptions
Id	Long	
From	String	IP Address
To	String	IP Address

## Example - Enable replication:

### Input

```
{
  "SysUser": "api_user",
  "SysPwd": "qWeRtY123456!@#$%",
  "Id": 0,
  "ReplicationEnabled": true,
  "LoginName": "myRECEIVER",
  "Password": "mypwd",
  "Alias": "CBS 10.1.1.99",
  "ObsProtocol": "https",
  "ObsHost": "cbs1.example.com",
  "ObsPort": 443,
  "ObsVersion": 1,
  "ObsSysUser": "system",
  "ObsSysPwd": "system",
  "V6ReplicationEnabled": false,
  "MigrateFromV6": false,
  "ListenHost": "0.0.0.0",
  "ListenPort": 9444,
  "CrcEnabled": false,
  "CrcHour": 0,
  "CrcMinute": 0,
  "RestorePointInterval": 30,
  "RetentionCustomizationPolicy": 60,
  "SystemHome": "C:\\Program Files\\AhsayCBS\\system\\rps\\rcvshome\\myRECEIVER",
  "UserHomeMappings": [
    {
      "RPSDir": "D:\\rps\\rcvshome\\myRECEIVER\\files\\C%3A\\Program Files\\AhsayCBS\\user",
      "OBShome": "C:\\Program Files\\AhsayCBS\\user"
    }
  ],
  "IPRestrictions": [],
  "TrafficLimits": [],
}
```

### Output

```
{
  "Status": "OK"
}
```

## Example - Disable replication:

### Input

```
{
  "SysUser": "api_user",
  "SysPwd": "qWeRtY123456!@#$%",
  "Id": 0,
  "ReplicationEnabled": false,
  "LoginName": "myRECEIVER",
  "Password": "mypwd",
  "Alias": "CBS 10.1.1.99",
  "ObsProtocol": "https",
  "ObsHost": "cbs1.example.com",
  "ObsPort": 443,
  "ObsVersion": 1,
  "ObsSysUser": "system",
  "ObsSysPwd": "system",
  "V6ReplicationEnabled": false,
  "MigrateFromV6": false,
  "ListenHost": "0.0.0.0",
  "ListenPort": 9444,
  "CrcEnabled": false,
  "CrcHour": 0,
  "CrcMinute": 0,
  "RestorePointInterval": 30,
  "RetentionCustomizationPolicy": 60,
  "SystemHome": "C:\\Program Files\\AhsayCBS\\system\\rps\\rcvshome\\myRECEIVER",
  "UserHomeMappings": [
    {
      "RPSDir": "D:\\rps\\rcvshome\\myRECEIVER\\files\\C%3A\\Program Files\\AhsayCBS\\user",
      "OBShome": "C:\\Program Files\\AhsayCBS\\user"
    }
  ],
  "IPRestrictions": [],
  "TrafficLimits": [],
}
```

### Output

```
{
  "Status": "OK"
}
```

### 5.1.3 RemoveReceiver

This API can be used to remove a replication receiver, and may help to remove when the GUI cannot.

The related settings can be found on the AhsayCBS web console:

🔗 [Replication] > [Accepting Data] > [Receiver]

<b>URL:</b>		
<a href="https://REPLICATION.EXAMPLE.COM/rps/api/json/RemoveReceiver.do">https://REPLICATION.EXAMPLE.COM/rps/api/json/RemoveReceiver.do</a>		
<b>Available since version:</b>		
9.1		
<b>Parameters:</b>		
Key	Type	Descriptions
SysUser	String	Username of an AhsayCBS System User with Admin or API role
SysPwd	String	Password matching SysUser
Id	Long	
<b>Return Values:</b>		
Key	Type	Descriptions
Status	String	"OK" or "Error"
Message	String	Error message, it exists only if status is "Error"
ExptType	String	The type of exception, it exists only if status is "Error"
<b>Example:</b>		
<b>Input</b>		
<pre>{   "SysUser": "api_user",   "SysPwd": "qWeRtY123456!@#\$%",   "Id": "1", }</pre>		
<b>Output</b>		
<pre>{   "Status": "OK" }</pre>		



## 6 RDR API

### 6.1 RDR License

#### 6.1.1 UpdateLicense

This API can be used to update the licensee name and license key on the AhsayCBS server for the redirector.

The related settings can be found on the AhsayCBS web console:

🔗 [System Settings] > [License] > [Redirector]

<b>URL:</b>		
<a href="https://REDIRECTOR.EXAMPLE.COM/rdr/api/json/UpdateLicense.do">https://REDIRECTOR.EXAMPLE.COM/rdr/api/json/UpdateLicense.do</a>		
<b>Available since version:</b>		
9.1		
<b>Parameters:</b>		
Key	Type	Descriptions
SysUser	String	Username of an AhsayCBS System User with Admin or API role
SysPwd	String	Password matching SysUser
LicenseeName	String	Licensee name of redirector key
LicenseKey	String	Product Key for redirector
UseProxy	Boolean	Enable / Disable the use of proxy defined in the AhsayCBS to connect the internet.
<b>Return Values:</b>		
Key	Type	Descriptions
Status	String	"OK" or "Error"
Message	String	Error message, it exists only if status is "Error"
ExptType	String	The type of exception, it exists only if status is "Error"
<b>Example:</b>		
<b>Input</b>		
<pre>{   "SysUser": "api_user",   "SysPwd": "qWeRtY123456l@#\$%",   "LicenseeName": "ABC_Backup",   "LicenseKey": "XyZ98-AbcDE-fGhIJ-98bcd-YZ" }</pre>		
<b>Output 1</b>		
<pre>{   "Status": "OK",   "Key": "XyZ98-AbcDE-fGhIJ-98bcd-YZ",   "Deactivated": false,   "Licensee": "ABC_Backup" }</pre>		
<b>Output 2</b>		
<pre>{   "Status": "OK", "Key": "XyZ98-AbcDE-fGhIJ-98bcd-YZ", "Deactivated": false, "Info":   "Internal Error 1012. Please press the [Update] button in license page to correct this problem.   If the problem persists, please contact our technical support team to resolve this problem.", "Licensee":   "ABC_Backup" }</pre>		
<b>Output 3</b>		
<pre>{   "Status": "Error", "Message": "License key incorrect. Please try again." }</pre>		

#### Output 4

```
{  
  "Status": "OK", "Key": "XyZ98-AbcDE-fGhIJ-98bcd-YZ", "Deactivated": false, "Info": "[OEM License.checkLicTime] License expired on  
  1970-01-01. Backup server is stopped.", "Licensee": "ABC_Backup"  
}
```

## 6.2 Server Config

### 6.2.1 UpdateServerConfig

This API can be used to update the Redirector module's setting.

The related settings can be found on the AhsayCBS web console at:

• [Redirection] > [Hosting a redirector] > [Server Configuration]

<b>URL:</b>		
<a href="https://REDIRECTOR.EXAMPLE.COM/rdr/api/json/UpdateServerConfig.do">https://REDIRECTOR.EXAMPLE.COM/rdr/api/json/UpdateServerConfig.do</a>		
<b>Available since version:</b>		
9.1		
<b>Parameters:</b>		
Key	Type	Descriptions
SysUser	String	Username of an AhsayCBS System User with Admin or API role
SysPwd	String	Password matching SysUser
SkipDuplicateUserCheck	Boolean	Do not check duplicate users
BackupServers	Array	Redirector will redirect user to these backup servers
EnableRdr	Boolean	
FreeTrialServer	Integer	ID of the backup server for free trial registration
<b>Return Values:</b>		
Key	Type	Descriptions
Status	String	"OK" or "Error"
Message	String	Error message, it exists only if status is "Error"
ExptType	String	The type of exception, it exists only if status is "Error"
<b>JSON Objects:</b>		
<b>BackupServers</b>		
Key	Type	Descriptions
Id	Long	
Enabled	Boolean	
HttpEnabled	Boolean	
SslEnabled	Boolean	
LoginName	String	
Password	String	
Hostname	String	
HttpPort	Integer	
SslPort	Integer	
Class	String	The value must be "com.ahsay.cbs.rdr.config.system.EditServerConfigBean\$BackupServerBean"

## Example:

### Input

```
{
  "SysUser": "system",
  "SysPwd": "system",
  "BackupServers": [
    {
      "Id": "1",
      "Enabled": true,
      "HttpEnabled": true,
      "SslEnabled": false,
      "LoginName": "system",
      "Password": "system",
      "Hostname": "10.16.30.11",
      "HttpPort": 80,
      "SslPort": 443,
      "Class": "com.ahsay.cbs.rdr.config.system.EditServerConfigBean$BackupServerBean"
    }
  ],
  "SkipDuplicateUserCheck": false,
  "EnableRdrFreeTrial": false
}
```

### Output

```
{
  "Status": "OK"
}
```

## 7 Further Information

If you have any question or suggestion about this document, please open a Support ticket via [Ahsay Partner Portal](#).

## Appendix

### Appendix A Supported Language Code

Please refer to Appendix A of our [AhsayCBS Administrator's Guide](#) for details.

## Appendix B Supported Timezones

Timezone String	ID	Timezone Name
GMT+13:00 (WST)	1001	Western European Summer Time
GMT-11:00 (NUT)	1002	Niue Time
GMT-11:00 (SST)	1003	Samoa Standard Time
GMT-10:00 (HADT)	1004	Hawaii-Aleutian Daylight Time
GMT-10:00 (HST)	1005	Hawaiian Standard Time
GMT+13:00 (TKT)	1006	Tokelau Time
GMT-10:00 (HST)	1007	Hawaii Standard Time
GMT-10:00 (CKT)	1008	Cook Islands Time
GMT-10:00 (TAHT)	1009	Tahiti Time
GMT-09:00 (AKDT)	1010	Alaska Standard Time
GMT-09:00 (GAMT)	1011	Gambier Time
GMT-08:00 (PST)	1012	Pacific Standard Time (North America)
GMT-08:00 (PDT)	1013	Pacific Daylight Time (North America)
GMT-07:00 (MST)	1014	Mountain Standard Time
GMT-07:00 (MDT)	1015	Mountain Daylight Time
GMT-06:00 (CST)	1016	Central Standard Time
GMT-06:00 (EAST)	1018	Easter Island Time
GMT-06:00 (GALT)	1019	Galapagos Time
GMT-05:00 (EST)	1020	Eastern Standard Time (North America)
GMT-04:00 (EDT)	1021	Eastern Daylight Time
GMT-05:00 (COT)	1022	Colombia Time
GMT-05:00 (ECT)	1023	Ecuador Time
GMT-05:00 (CDT)	1024	Central Daylight Time (North America)
GMT-05:00 (PET)	1025	Peru Time
GMT-04:00 (ACT)	1026	Acre Time
GMT-05:00 (GMT-05:00)	1027	
GMT-04:00 (AST)	1028	Atlantic Standard Time
GMT-04:00 (PYT)	1029	Paraguay Time
GMT-04:30 (VET)	1030	Venezuela Time
GMT-04:00 (AMT)	1031	Armenia Time
GMT-04:00 (GYT)	1032	Guyana Time
GMT-04:00 (ADT)	1033	Acre Daylight Time Atlantic Standard Time
GMT-04:00 (BOT)	1034	Bolivia Time
GMT-04:00 (AMT)	1035	Armenia Time
GMT-04:00 (CLT)	1036	Chile Time
GMT-03:00 (FKT)	1037	Falkland Islands
GMT-03:00 (ART)	1038	Argentina Time
GMT-03:00 (GFT)	1039	Guiana Time
GMT-03:00 (BRT)	1040	Brasilia Time
GMT-03:00 (WGST)	1041	West Greenland Summer Time
GMT-03:00 (PMDT)	1042	Pierre & Miquelon Daylight Time
GMT-03:00 (UYT)	1043	Uruguay Time
GMT-03:00 (SRT)	1044	Suriname Time
GMT-02:00 (FNT)	1045	Fernando de Noronha Time
GMT-02:00 (GST)	1046	Gulf Standard Time
GMT-01:00 (EGST)	1047	East Greenland Summer Time
GMT-01:00 (AZOST)	1048	Azores Summer Time
GMT-01:00 (CVT)	1049	Cape Verde Time
GMT-01:00 (EGT)	1050	East Greenland Time
GMT+00:00 (GMT)	1051	Greenwich Mean Time
GMT+00:00 (WET)	1052	Western European Time
GMT+00:00 (WEST)	1053	Western European Summer Time
GMT+00:00 (IST)	1054	Israel Standard Time
GMT+00:00 (BST)	1055	Brazil Standard Time
GMT+00:00 (UTC)	1056	Coordinate Universal Time
GMT+01:00 (CET)	1057	Central European Time
GMT+01:00 (WAT)	1058	West Africa Time
GMT+02:00 (CEST)	1059	Central European Summer Time
GMT+02:00 (EEST)	1060	Eastern European Summer Time
GMT+02:00 (CAT)	1061	Central Africa Time
GMT+02:00 (SAST)	1062	South African Standard Time
GMT+02:00 (EET)	1063	Eastern European Time

GMT+02:00 (IDT)	1064	Israel Daylight Time
GMT+03:00 (EAT)	1065	East Africa Time
GMT+03:00 (AST)	1066	Acre Standard Time
GMT+03:00 (ADT)	1067	Acre Daylight Time
GMT+04:00 (MSD)	1068	Moscow Daylight Time
GMT+05:00 (AQTST)	1069	Aqtau Summer Time
GMT+04:00 (AZST)	1070	Azerbaijan Summer Time
GMT+04:00 (GST)	1071	Gulf Standard Time
GMT+04:00 (GEST)	1072	Georgia Time
GMT+04:00 (AMST)	1073	Armenia Summer Time
GMT+04:00 (SAMST)	1074	Samara Time
GMT+04:00 (SCT)	1075	Seychelles Time
GMT+04:00 (MUT)	1076	Mauritius Time
GMT+04:00 (RET)	1077	Reunion Time
GMT+05:00 (TMT)	1078	Turkmenistan Time
GMT+06:00 (KGST)	1079	Kyrgyzstan Summer Time
GMT+05:00 (TJT)	1080	Tajikistan Time
GMT+05:00 (PKT)	1081	Pakistan Time
GMT+05:00 (UZT)	1082	Uzbekistan Time
GMT+06:00 (YEKST)	1083	Yekaterinburg Summer Time
GMT+06:00 (IOT)	1084	Indian Ocean Territory Time
GMT+05:00 (TFT)	1085	French Southern & Antarctic Lands Time
GMT+05:00 (MVT)	1086	Maldives Time
GMT+05:00 (MAWT)	1087	Mawson Time
GMT+06:00 (ALMST)	1088	Almaty Summer Time
GMT+05:30 (LKT)	1089	Sri Lanka Time
GMT+06:00 (BDT)	1090	Bangladesh Time
GMT+07:00 (NOVT)	1091	Novosibirsk Time
GMT+06:00 (BTT)	1092	Bhutan Time
GMT+07:00 (ICT)	1093	Indochina Time
GMT+07:00 (JAVT)	1094	Java Time, Indonesia Time
GMT+08:00 (KRAT)	1095	Krasnoyarsk Time
GMT+07:00 (CXT)	1096	Christmas Island Time
GMT+08:00 (HKT)	1097	Hong Kong Time
GMT+08:00 (CST)	1098	Central Standard Time
GMT+08:00 (BNT)	1099	Brunei Darussalam Time
GMT+08:00 (WST)	1100	West Samoa Time
GMT+09:00 (IRKST)	1101	Irkutsk Summer Time
GMT+08:00 (MYT)	1102	Malaysia Time
GMT+08:00 (PHT)	1103	Philippine Time
GMT+08:00 (SGT)	1104	Singapore Time
GMT+08:00 (BORT)	1105	Borneo Time
GMT+08:00 (ULAT)	1106	Ulan Bator Time
GMT+09:00 (JAYT)	1107	Jayapura Time
GMT+09:00 (KST)	1108	Korean Standard Time
GMT+09:00 (JST)	1109	Japan Standard Time
GMT+10:00 (YAKT)	1110	Yakutsk Time
GMT+09:00 (PWT)	1111	Palau Time
GMT+10:00 (EST)	1112	Australia Eastern Standard Time
GMT+10:00 (DDUT)	1113	Dumont-d'Urville Time
GMT+11:00 (VLAT)	1114	Vladivostok Time
GMT+10:00 (ChST)	1115	Chamorro Standard Time
GMT+10:00 (PGT)	1116	Papua New Guinea Time
GMT+10:00 (TRUT)	1117	Truk Time
GMT+12:00 (MAGT)	1118	Magadan Time
GMT+11:00 (VUT)	1119	Vanuatu Time
GMT+11:00 (SBT)	1120	Solomon Islands Time
GMT+11:00 (KOST)	1121	Kosrae Time
GMT+11:00 (NCT)	1122	New Caledonia Time
GMT+11:00 (PONT)	1123	Ponape Time
GMT+12:00 (NZST)	1124	New Zealand Standard Time
GMT+12:00 (ANAST)	1125	Anadyr Time
GMT+12:00 (PETST)	1126	Petropavlovsk-Kamchatski Time
GMT+12:00 (FJT)	1127	Fiji Time
GMT+12:00 (TVT)	1128	Tuvalu Time
GMT+12:00 (MHT)	1129	Marshall Islands Time
GMT+12:00 (NRT)	1130	Nauru Time



GMT+12:00 (GILT)	1131	Gilbert Island Time
GMT+12:00 (WAKT)	1132	Wake Time
GMT+12:00 (WFT)	1133	Wallis and Futuna Time
GMT+08:00 (CST)	1134	Cuba Standard Time
GMT+03:30 (IRST)	1135	Iran Standard Time
GMT+05:30 (IST)	1136	India Standard Time
GMT-03:30 (NST)	1137	Newfoundland Standard Time (NST)
GMT-03:00 (BET)	1138	Brazil Eastern Time

## Appendix C Product Documentation

Please visit this [link](#) for the documentation on all Ahsay Products.