

**RSA Identity Governance and Lifecycle
Connector Datasheet
for
Office365**



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Purpose

This data sheet provides the configuration information required to create a new SSH Based Office365 connector.

Supported Software

RSA Identity Governance and Lifecycle Version: 7.0 and above

Application: Office365

Prerequisites

- **Microsoft .NET Framework:** You must install the Microsoft .NET Framework 4 (<http://www.microsoft.com/en-in/download/details.aspx?id=17851>)
- **Operating system:** Windows 7, Windows 8, Windows Server 2008 R2, or Windows Server 2012.

1. Install Microsoft Online Services Sign-in Assistant

1. The Microsoft Online Services Sign-In Assistant provides end user sign-in capabilities to Microsoft Online Services, such as Office 365.
 2. Go to Microsoft Online Services Sign-In Assistant for IT Professionals BETA download page (<http://www.microsoft.com/en-in/download/details.aspx?id=39267>).
Note: Once you click on the “Download” button, you will be prompted to select the files you need.
- Select following file to download:

msoidcli_64.msi
1. Download above file and execute installation.

2. Install Azure Active Directory Module

- This requires Microsoft Online Services Sign-In Assistant 7 or higher installed (step 1).
- The detailed instructions on how to install the same are available here: <https://docs.microsoft.com/en-us/powershell/azure/active-directory/install-msonlinev1?view=azureadps-1.0>
- In a Powershell console with Administrator privileges run the command

Install-Module MSONline

Follow the instructions on the prompt. You might need to install “NuGet” package management provider as a prerequisite.

3. Install Windows Management Framework 3.0

- Includes Windows PowerShell 3.0, WMI, WinRM, Management OData IIS Extension, and Server Manager CIM Provider.

- Go to Windows Management Framework 3.0 download page (<http://www.microsoft.com/en-in/download/details.aspx?id=34595>)
- **Note:** There are multiple files available for this download. Once you click on the “Download” button, you will be prompted to select the files you need.
- Select following file to download:
Windows6.1-KB2506143-x64.msu (15.8MB)
- Download and install above update.

4. Install SharePoint Online Management Shell

- The SharePoint Online Management Shell is a tool that contains a Windows PowerShell Module to manage your SharePoint Online subscription in the Office 365.
- Go to SharePoint Online Management Shell download page (<http://www.microsoft.com/en-in/download/details.aspx?id=35588>)
- Select following file to download:
SharePointOnlineManagementShell_<current_version>_x64_en-us.msi (1.1MB)
- Download and execute installation.

5. Install SSH Server (Version 3.0)

- a. Download PowerShell SSH server installer (<http://www.powershellserver.com/download>)
 - b. Install PowerShell SSH Server.
- Note:** While installing PowerShell server you must select 'PowerShell V3.0' . This will install PowerShell SSH server in PowerShell version 3.0

6. set the execution policy of Windows PowerShell such that it allows the running of scripts and files.

- For example, to set execution policy to 'Unrestricted' execute following command on PowerShell console
- Set-ExecutionPolicy Unrestricted
- **Note:** You should Run PowerShell console as Administrator to set 'Script Execution Policy'.

Configuration

The Connector creation is made up of three sections:

General – General details about the Connector; viz. the name, type etc.

Settings – The connection settings required to connect the RSA-IMG and the End-point Application in consideration.

Capabilities – These are the list of “verbs” or capabilities that the RSA-IMG Connector supports; for e.g. “Create, Update, Delete, etc.”

General

The following table helps you with the Parameters asked on the “General” screen while creating the Connector.

Field Name	Value
Name	Office365 Connector
Description	Office365 Connector
Server	AFX Server
Connector Template	Office365
State	Test
Export As Template	Yes

Note: When you are satisfied your connector is configured properly change the state to Active. No automated provisioning will occur while in the Test state. It is recommended that you test all enabled commands using the Test Connector Settings and Test Connector Capabilities prior to changing to the Active state.

Settings

The following table helps you with the Parameters asked on the “Settings” screen while creating the Connector.

Field Name	Value
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Host Name	Machine on which Powershell server is present
Port	SSH port of the Powershell Server machine(Default : 22)
Timeout(milliseconds)	Default is 180000
Login Name	Login name for the Powershell Server machine
Password	Password to login to the Powershell Server machine

Capabilities

The following table(s) helps you with the Parameters asked when enabling the commands (verbs) on the “Capabilities” screen; while creating the Connector.

The Following commands are supported by the Office365 connector:

- Create mailbox for a new user
- Remove mailbox for user
- Add User License

Command Input Parameters

Create mailbox for a new user

While defining the “Create mailbox for a new user” command, certain parameters need to be defined. The following tables will help you define these parameters. Each table is dedicated to one parameter.

Field Name	Value
Parameter Name	AdminUserId
Type	<i>STRING</i>
Default Value	<i>None</i>
Is the parameter required?	Yes
Is the parameter encrypted?	No

Display Name	<i>Admin User Id</i>
Mapping	Expected Value is the Email Id of the Administrator account on Office365
Description	Office365 Administrator UserID

Field Name	Value
Parameter Name	AdminPassword
Type	<i>STRING</i>
Default Value	<i>None</i>
Is the parameter required?	Yes
Is the parameter encrypted?	Yes
Display Name	<i>Admin Password</i>
Mapping	Expected Value is the Password of the Office365 Administrator Account
Description	Office365 Administrator Password

Field Name	Value
Parameter Name	UserPrincipalName
Type	<i>STRING</i>

Default Value	<i>None</i>
Is the parameter required?	Yes
Is the parameter encrypted?	No
Display Name	<i>User Principal Name</i>
Mapping	<p><code>\${User.First_Name} @domain</code></p> <p>Note: domain here is the Office365 domain. E.g., <code>xyz@RSAAveksa.onmicrosoft.com</code></p>
Description	UserPrincipalName of the new mailbox user

Field Name	Value
Parameter Name	Alias
Type	<i>STRING</i>
Default Value	<i>None</i>
Is the parameter required?	Yes
Is the parameter encrypted?	No
Display Name	<i>Alias Name for mailbox</i>
Mapping	<code>\${User.First_Name}</code>
Description	Alias name of the new mailbox

Field Name	Value
Parameter Name	Name
Type	<i>STRING</i>
Default Value	<i>None</i>
Is the parameter required?	Yes
Is the parameter encrypted?	No
Display Name	<i>Mailbox Name</i>
Mapping	<code>\${User.First_Name}</code>
Description	First name of the new mailbox user

Field Name	Value
Parameter Name	LastName
Type	<i>STRING</i>
Default Value	<i>None</i>
Is the parameter required?	Yes
Is the parameter encrypted?	No
Display Name	<i>Last Name of user</i>
Mapping	<code>\${User.Last_Name}</code>

Description	Last name of the new mailbox user
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Field Name	Value
Parameter Name	UserPassword
Type	<i>STRING</i>
Default Value	<i>None</i>
Is the parameter required?	Yes
Is the parameter encrypted?	No
Display Name	<i>User Password</i>
Mapping	<code>\${AccountTemplate.Password}</code>
Description	Password of the new mailbox user

Field Name	Value
Parameter Name	DisplayName
Type	<i>STRING</i>
Default Value	<i>None</i>
Is the parameter required?	Yes
Is the parameter encrypted?	No

Display Name	<i>Display Name of user</i>
Mapping	<code>\${User.First_Name}\${User.Last_Name}</code>
Description	Display name of the new mailbox user

Remove mailbox for user

While defining the “Remove mailbox for user” command, certain parameters need to be defined. The following tables will help you define these parameters. Each table is dedicated to one parameter.

Field Name	Value
Parameter Name	AdminUserId
Type	<i>STRING</i>
Default Value	<i>None</i>
Is the parameter required?	Yes
Is the parameter encrypted?	No
Display Name	<i>Admin User Id</i>
Mapping	Expected Value is the Email Id of the Administrator account on Office365
Description	Office365 Administrator UserID

Field Name	Value
Parameter Name	AdminPassword

Type	<i>STRING</i>
Default Value	<i>None</i>
Is the parameter required?	Yes
Is the parameter encrypted?	Yes
Display Name	<i>Admin Password</i>
Mapping	Expected Value is the Password of the Office365 Administrator Account
Description	Office365 Administrator Password

Field Name	Value
Parameter Name	UserPrincipalName
Type	<i>STRING</i>
Default Value	<i>None</i>
Is the parameter required?	Yes
Is the parameter encrypted?	No
Display Name	<i>User Principal Name</i>
Mapping	`\${Account.Name}`
Description	UserPrincipalName of the mailbox user to be deleted

Add User License

While defining the “Add User License” command, certain parameters need to be defined. The following tables will help you define these parameters. Each table is dedicated to one parameter.

Field Name	Value
Parameter Name	AdminUserId
Type	<i>STRING</i>
Default Value	<i>None</i>
Is the parameter required?	Yes
Is the parameter encrypted?	No
Display Name	<i>Admin User Id</i>
Mapping	Expected Value is the Email Id of the Administrator account on Office365
Description	Office365 Administrator UserID
Field Name	Value
Parameter Name	AdminPassword
Type	<i>STRING</i>
Default Value	<i>None</i>
Is the parameter required?	Yes

Is the parameter encrypted?	Yes
Display Name	<i>Admin Password</i>
Mapping	Expected Value is the Password of the Office365 Administrator Account
Description	Office365 Administrator Password

Field Name	Value
Parameter Name	UserPrincipalName
Type	<i>STRING</i>
Default Value	<i>None</i>
Is the parameter required?	Yes
Is the parameter encrypted?	No
Display Name	<i>User Principal Name</i>
Mapping	\${User.First_Name} @domain Note: domain here is the Office365 domain.
Description	UserPrincipalName of the mailbox user to be deleted

Field Name	Value
Parameter Name	Location

Type	<i>STRING</i>
Default Value	<i>None</i>
Is the parameter required?	Yes
Is the parameter encrypted?	No
Display Name	<i>Location</i>
Mapping	Expected Value is 2-letter country code. E.g., US for United States.
Description	Location of the mailbox user

Field Name	Value
Parameter Name	LicenseName
Type	<i>STRING</i>
Default Value	<i>None</i>
Is the parameter required?	Yes
Is the parameter encrypted?	No
Display Name	<i>License Name</i>
Mapping	Expected Value is a valid name of the license to be assigned. E.g., OrganizationName:MidSizePack
Description	License Pack name to be assigned to the user

Limitations

- It cannot be deployed on Linux build.
- When we execute create mailbox command, a corresponding Office365 user also gets created. The synchronization of that user entry in Active Directory takes some time (roughly 2 – 2.5 minutes).
- The mailbox created using the “**CreateMailbox**” capability doesn't not have any license assigned by default and will expire after 30 days of grace period.
- Licensing should be done using the “**AddUserLicense**” capability **only after** the user entry is reflected in Active Directory after mailbox creation.
- When **DeleteMailbox** command is executed, the user entry also gets deleted from Active Directory which takes some time.

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