



Integration Guide: AC 12.0 – IAG Bridge Scenario

Using SAP Cloud Identity Access Governance as a bridge to enable creation of access requests from SAP Access Control on-premise to cloud applications

PUBLIC

TARGET AUDIENCE: Administrators

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About This Guide

This guide is intended for administrators to assist in setup and integration of SAP Access Control 12.0 on-premise with the SAP Cloud Identity Access Governance solution and target cloud applications. This guide is to be used in conjunction with the SAP Cloud Identity Access Governance administrator guide.

Document History

Provides details about the changes made in each version of this document.

Date	Description
February 28, 2019	Initial version
November 26, 2019	Minor corrections (subsection 3.1)
March 06, 2020	Minor corrections (subsections 1.3 and 3.4)

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Integration Process: AC on-premise -to- IAG -to- Cloud Apps (overview)

Prerequisites:

- Working instance of IAG solution (refer to IAG Admin Guide)
- Working instance of AC 12 on-premise (refer to AC Admin Guide)
- Working instance of cloud application

1

Complete integration procedure for **IAG** and **cloud application**, e.g. SAP Ariba

2

In IAG, sync user data from cloud app to IAG repository

3

Complete integration procedure for **AC on-premise system** and **IAG**

4

On AC on-premise system, sync cloud app user data from IAG repository to AC system

5

On AC system, create access requests for cloud application.

6

On IAG, run provisioning jobs to get provisioning requests from AC and push to cloud application

Integration Process: AC on-premise -to- IAG -to- Cloud App (including sub steps)

Prerequisites

Ensure the following are setup and working before starting the integration procedure:

- Working instance of **IAG_solution** (refer to IAG Admin Guide)
- Working **AC 12 on-premise** system (refer to AC Admin Guide)
- Working instance of **target cloud application**

1.0 Complete Integration for IAG and Target Cloud Application

This enables communication and data sync between IAG and the target cloud application. (The information in this section refers to the [IAG Admin Guide](#).)

- 1.1. In **SCP**, create destinations for your specific target cloud applications, e.g. SAP Ariba.
(see IAG Admin Guide – [Integration Scenarios](#))
 1. Go to your subaccount and open **Connectivity > Destinations > New Destinations**.
 2. Create destinations as specified in the Admin Guide.
- 1.2. In **SCP**, create **OAuth client** for IAG bridge security. (see [Configuration Steps](#))
 1. Navigate to **Security > OAuth**. On the **Clients** tab click **Register New Client**.
 2. Fill in the required fields as shown below.
 - **Subscription:** select *<provider tenant ID>/iagtrigger*
 - **ID:** enter *IAGBRIDGE*
 - **Authorization Grant:** select *Client Credentials*
 - **Secret:** enter the password for the service
 - **Token Lifetime:** delete any entry and leave the field empty

iagBridge	iagBridge	/iagtrigger
GRCUSER	SFCreatereqOAuth	/iagtechbusrolereport
GRCUSER1	accessrequestoauth	/accessrequestoauth
workflowuser	workflowservice	/ibpmworkflowruntime
69e85847	Cloud Platform Workflow OAuth Client f...	/ibpmworkflowruntime

* Name: Translations

Description:

* Subscription: Regenerate ID

* ID: Regenerate ID

* Authorization Grant:

Confidential:

* Secret:

Token Lifetime: Infinite if empty

Save Cancel

3. On the **Branding** tab, take note of the **Token Endpoint URL**. You will need it in the step to create connectors on the access control system.



- 1.3. In **Fiori Launchpad** for IAG, add a system for the cloud application destination.

Open the **Systems** app and click the plus (+) to create a system. Use information from the destination you created in SCP to fill in the fields. (See [IAG Admin Guide – Integration Scenarios – Add \[cloud app\] Instance](#))

Note: For a successful integration of SAP Access Control with SAP Identity Access Governance, the Systems and Business Function Group apps created in SAP Identity Access Governance must have 10 characters or less.

This completes the communication setup between IAG and the target cloud application.

2.0 Sync Target Cloud Application User Data to IAG repository

To synch user data from the cloud application to IAG repository, open the IAG Launchpad, and open the **Job Scheduler** app. Schedule and run the job: **Repository Sync**.

3.0 Complete Integration of AC on-premise to IAG

This enables communication and data synch between IAG and the AC system.

(The information in this section refers to the [IAG Admin Guide > Integration Scenarios > SAP ABAP on-premise.](#))

This section contains the following tasks:

- 3.1 Install SAP Cloud Platform Connector
- 3.2 Create RFC Destinations for IAGTRIGGER app
- 3.3 Configure Cloud Integration parameters
- 3.4 Create connector and connector group for target application
- 3.5 Create destination for service: IAG_PROVISION_STATUS_UPDATE_SRV

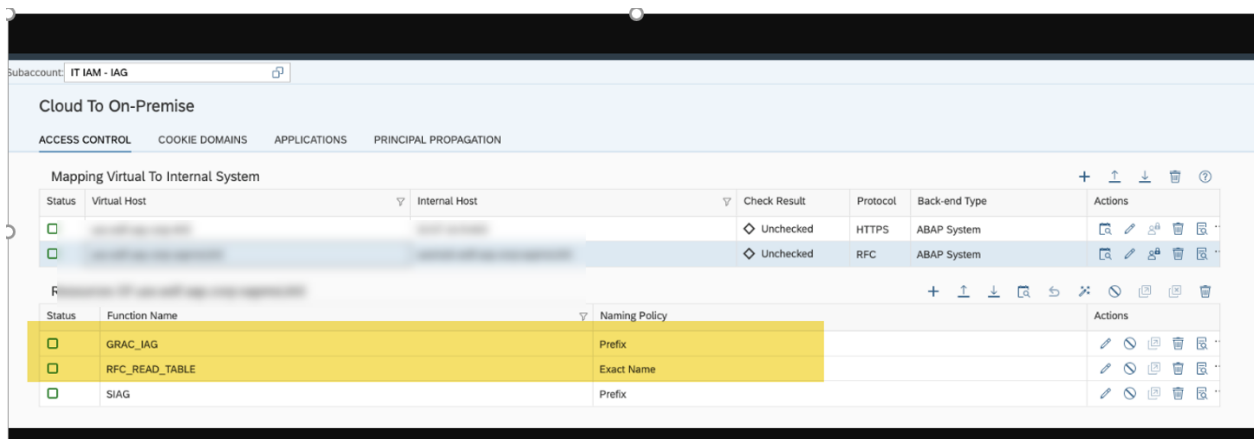
Prerequisites

- You have upgraded the target system to one of the supported NetWeaver versions and support packs (see [Required NW version and SP](#))
- You have created the required RFC user allow communication with IAG (see [Required RFC User](#))

3.1. Install SAP Cloud Connector

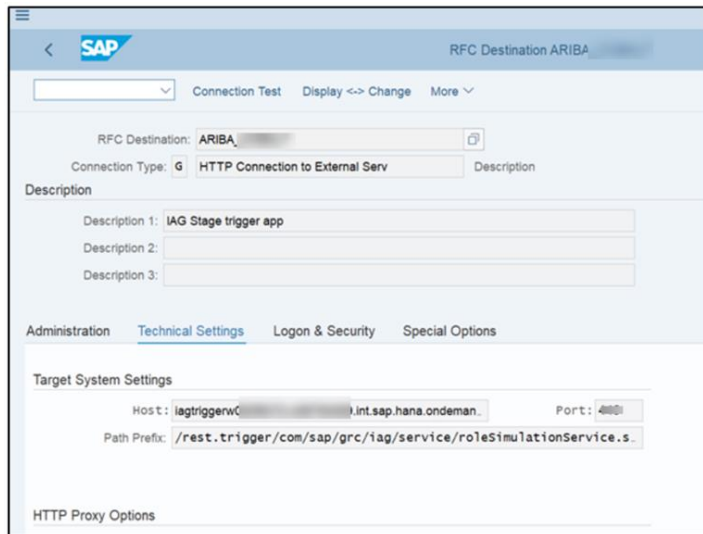
On the AC system, install and configure the *SAP Cloud Platform Connector* to enable communication between on-premise systems and the SAP Cloud Platform, and maintain destinations for each target system. (For detail steps, see [Maintaining Cloud Connector](#))

After performing the steps mentioned in the link above, enter the **Function Name** and the **Naming Policy** for the on-premise system added to the cloud connector.

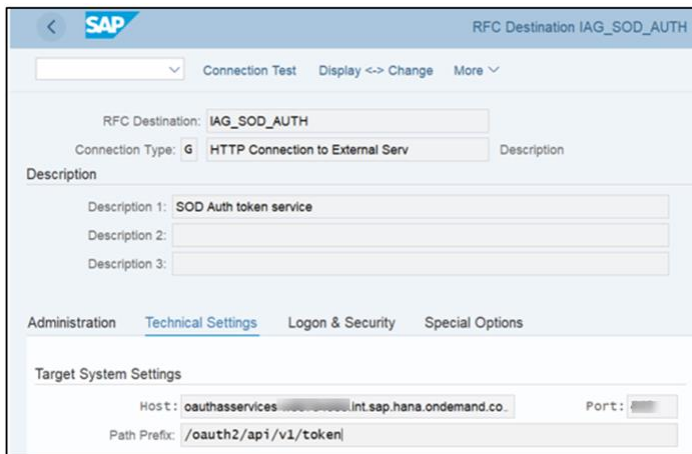


3.2. Maintain RFC Destination for the IAGTRIGGER App

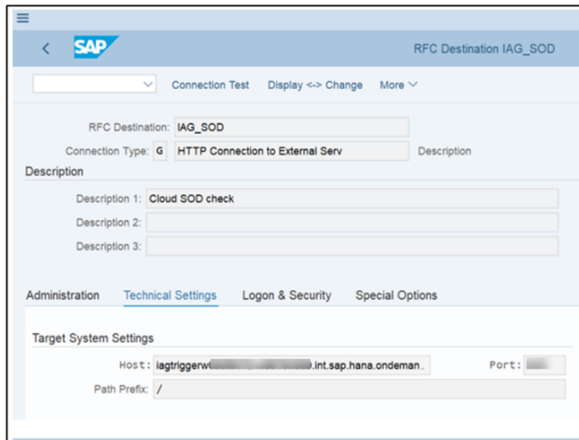
1. Go to *SPRO > Governance, Risk and Compliance > Common Component Settings > Integration Framework > Create Connectors*.
2. Create an **HTTP Connections to External Server**.
For **Host** enter the URL for the IAGtrigger Java app.
For **Path Prefix** enter this URL as IAG requires this exact URL to communicate with IAG services:
`/rest.trigger/com/sap/grc/iag/service/roleSimulationService.svc/`



3. Create IAG_SOD_AUTH Connector (see [Create IAG_SOD_AUTH Connector](#))



4. Create IAG_SOD_CHECK Connector (see [Create IAG_SOD_CHECK Connector](#))



3.3. Configure Parameters for Cloud Integration

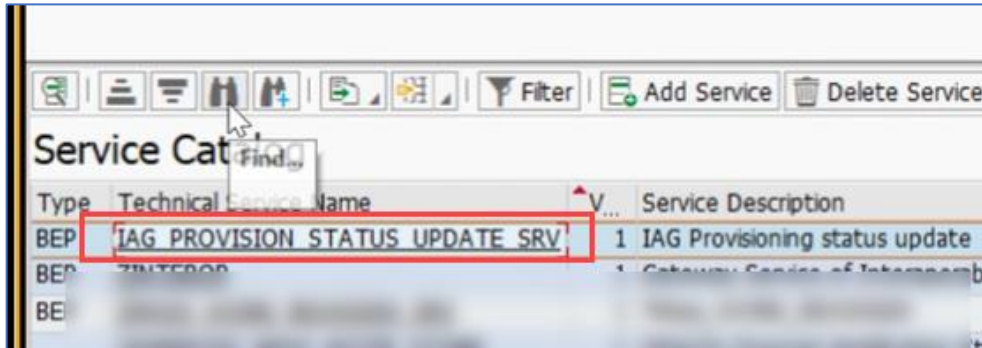
1. Go to SPRO > Governance, Risks and Compliance > Access Control > Maintain Configuration Settings.
2. Maintain the following parameters and values.
(For more information, see [Configure Parameters for IAG](#))

Param Group	Param ID	Parameter Value	Priority	Description
Cloud Integration	1090	YES		Cloud Risk Analysis
Cloud Integration	1091	IAG_SOD		Cloud Risk Analysis URL Destination
Cloud Integration	1092	IAG_SOD_AUTH		Cloud Auth URL Destination

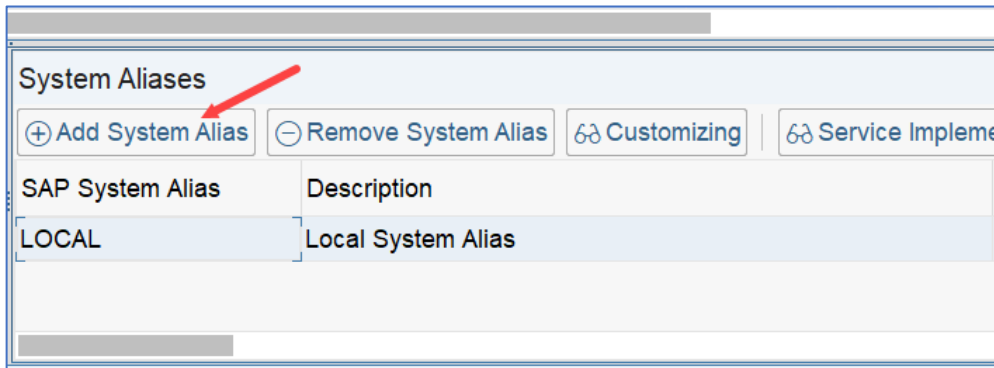
3.5. Create Destinations for IAG Service: IAG_PROVISION_STATUS_UPDATE_SRV

This delivered service is used by IAG to push status updates from the cloud target applications to access control. This enables the proper and accurate display of provisioning status for access requests.

1. On the AC system, go to SPRO > SAP NetWeaver > SAP Gateway > Administration > General Settings > **Activate and Maintain Services**.
2. In the Service Catalog screen, select **IAG_PROVISION_STATUS_UPDATE_SRV** and activate it.



3. In the **System Aliases** pane, click **Add System Alias**, and add it as *local host*, and Save.



- In the ICF Nodes pane, click **SAP Gateway Client**, and then **Execute**.

The screenshot shows the SAP Service Catalog and ICF Nodes interface. In the Service Catalog, the service 'IAG_PROVISION_STATUS_UPDATE_SRV' is selected. In the ICF Nodes pane, 'SAP Gateway Client' is selected, indicated by a red arrow.

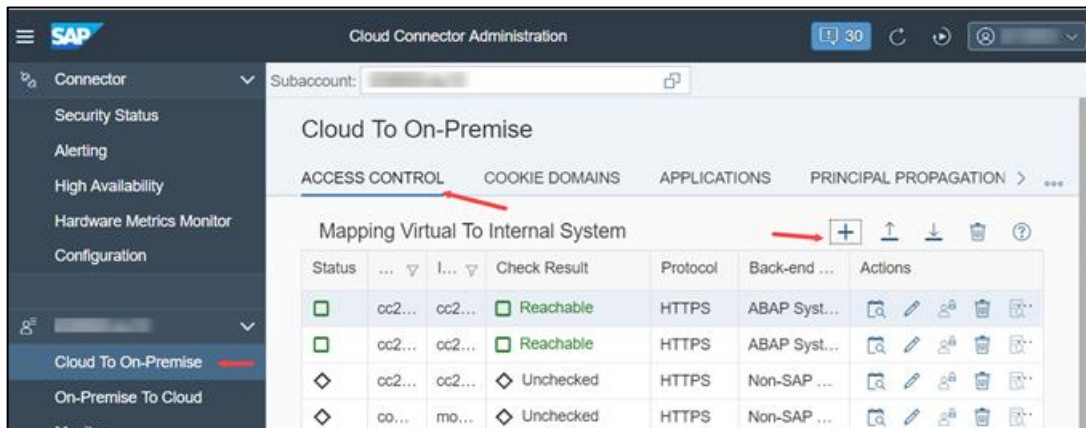
Type	Technical Service Name	Vers...	Service Description
EP	IAG_PROVISION_STATUS_UPDATE_SRV	1	IAG Provisioning status upd

Status	ICF Node	Session Time-out	Soft State	Description
○○■	ODATA	00:00:00		Standard Mode

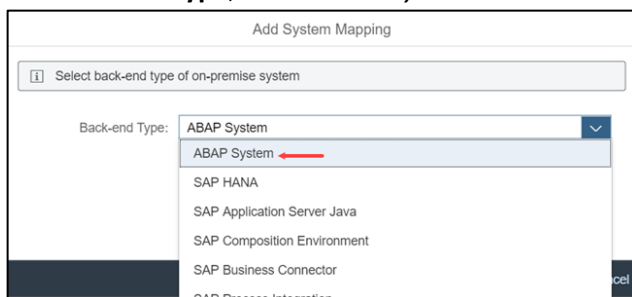
- In the html pane, copy the href link. You will need it for the next step.

```
<?xml version="1.0" encoding="UTF-8"?>
<app:service xml:lang="en" xmlns:m="http://schemas.microsoft.com/odata/2004" xmlns:app="http://www.sap.com/odata" xml:base="https://sap.com/odata" >
  <app:workspace>
    <atom:title type="text">Data</atom:title>
    <app:collection href="Requests" sap:content-version="1">
      <atom:title type="text">Requests</atom:title>
      <sap:member-title>Request</sap:member-title>
    </app:collection>
    <app:collection href="RequestItems" sap:content-version="1">
      <atom:title type="text">RequestItems</atom:title>
      <sap:member-title>RequestItem</sap:member-title>
    </app:collection>
  </app:workspace>
  <atom:link href="https://sap.com/odata/sap/opu/odata/sap/IAG_PROVISION_STATUS_UPDATE_SRV/" rel="self"/>
  <atom:link href="https://sap.com/odata/sap/opu/odata/sap/IAG_PROVISION_STATUS_UPDATE_SRV/" rel="latest version"/>
</app:service>
```

6. In the **Cloud Connector**, create a system mapping for the provisioning status update service.
 - 1) Open the SAP Cloud Platform Connector, select the subaccount, and click **Cloud To On-Premise**.
 - 2) Go to the **Access Control** tab and click the plus (+) sign to add a new system mapping.



- 3) For **Back-end Type**, select *ABAP System* and click **Next**.

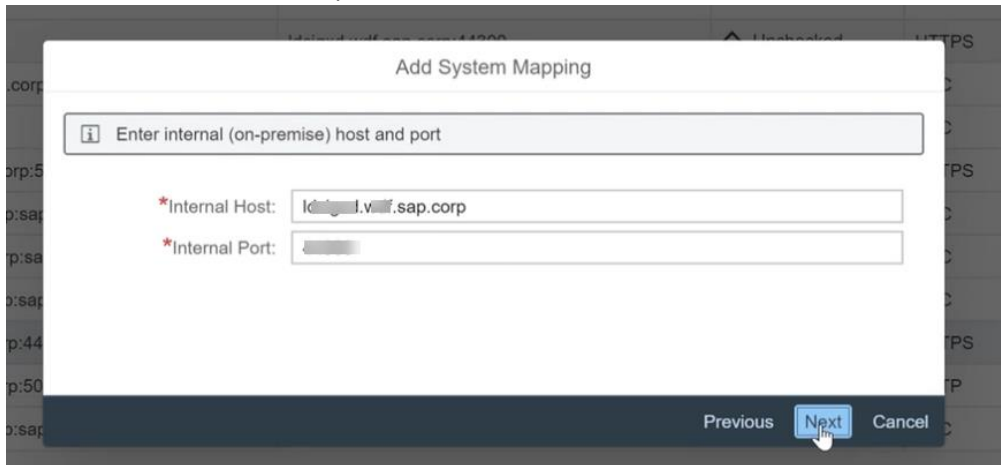


- 4) For **Protocol**, select **HTTPS**, and click **Next**.

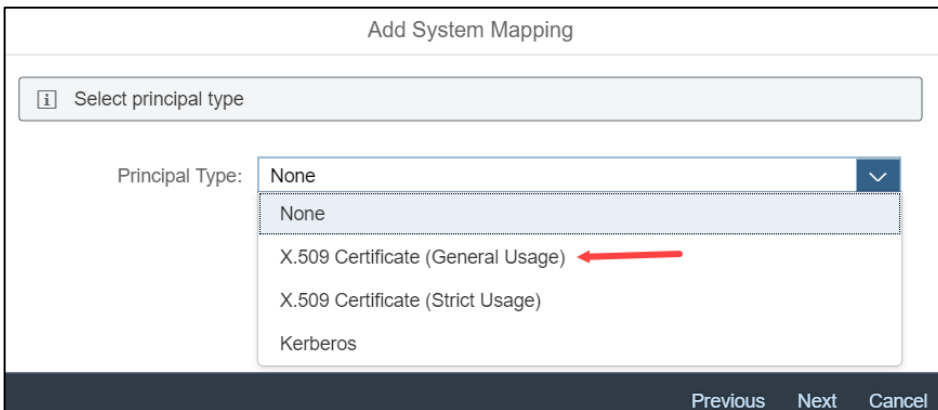
- 5) Enter the internal host and port information and **Next**.
You can copy this information from the services URL.

```
<?xml version="1.0" encoding="UTF-8"?>
- <app:service xml:lang="en" xmlns:m="http://schemas.microsoft.com/odata/2004" xmlns:app="http://schemas.microsoft.com/odata/2004/app" xmlns:atom="http://www.w3.org/2005/Atom" xml:base="https://[redacted]"/>
- <app:workspace>
  <atom:title type="text">Data</atom:title>
  - <app:collection href="Requests" sap:content-version="1">
    <atom:title type="text">Requests</atom:title>
    <sap:member-title>Request</sap:member-title>
  </app:collection>
  - <app:collection href="RequestItems" sap:content-version="1">
    <atom:title type="text">RequestItems</atom:title>
    <sap:member-title>RequestItem</sap:member-title>
  </app:collection>
</app:workspace>
<atom:link href="https://[redacted]/sap/opu/odata/sap/1AG_PROVISION_STATUS_UPDATE_SRV/" rel="self"/>
<atom:link href="https://[redacted]/sap/opu/odata/sap/1AG_PROVISION_STATUS_UPDATE_SRV/" rel="latest-version"/>
</app:service>
```

- For Internal Host: enter the root URL; do not include the protocol
- For Internal Port: enter the port number



- 6) For **Principal Type**, select **X.509 Certificate (General Usage)** and click **Next**.



- 7) Select the **Check the Internal Host** box and click **Finish**.

Check Internal Host:

- 8) Add a resource path. In the **Mapping Virtual To Internal System** table, select the new mapping. In the **Resources Accessible On** section, click the pencil icon to edit it.

Resources Accessible On				
Enabled	Status	URL Path		Access Policy
<input checked="" type="checkbox"/>	<input type="checkbox"/>	/		Path and all sub-paths

In the **URL Path** field, make sure only a / is entered, and save.

Add Resource

*URL Path: /

Enabled:

Access Policy: Path only (sub-paths are excluded)
 Path and all sub-paths

Description:

Save Cancel

- 9) Test the configuration. In the **Mapping Virtual To Internal System** table, select the new mapping, and click the check-availability icon.

Status	Virtual Host	Internal Host	Check Result	Protocol	Back-end Type	Actions
<input type="checkbox"/>	<input checked="" type="checkbox"/> Reachable	HTTPS	ABAP System	
<input type="checkbox"/>	...v20	...	<input type="checkbox"/> Unchecked	RFC	ABAP System	

7. In SCP, create a destination for the IAG Provisioning Status Update virtual mapping.
 - 1) Go to **Connectivity > Destinations** and click the plus sign (+) to add a destination.
Add the destination. Enter the name as **IAGProvisionStatusUpdate**.
 - 2) For the URL field, copy and paste the URL from the services configuration step.

Destination Configuration

*Name: IAGProvisionStatusUpdate

Type: HTTP

Description:

Location ID:

*URL: http://[redacted].corp:40000/sap/opu/odata/SAP/IAG_P

Proxy Type: OnPremise

Authentication: BasicAuthentication

*User:

Password: *****

Additional Properties

entity	Requests	🗑️
sap-client	I	🗑️

Edit Clone Export Delete Check Connection

- 3) Save.

4.0 Sync Cloud Application User Data from IAG repository to AC system

On the AC system, go to SPRO > Governance, Risk and Compliance > Synchronization Jobs and run the **Repository Object Sync**.

The screenshot shows the SAP Synchronization Job configuration interface. The title is "Repository Object (Profile, Role & User) Synchronization". At the top, there are buttons for "Save as Variant...", "Get Variant...", and "More". Below this is a "Role Search:" field. The main section is "Select Connector and Sync mode", which includes a "Connector:" field set to "ARIBA_COBALT", a "Language:" field set to "EN", and two "to:" fields. There are radio buttons for "Incremental Sync Mode" (selected) and "Full Sync Mode". Below this is the "For Legacy Systems" section, which includes a "Legacy System:" checkbox, a "To Connector:" field, and several checkboxes: "Sync future dated assignments:" (checked), "Sync Previously Failed Users:" (unchecked), "IdM/IAG Role Import:" (checked), and "Authorization Data:" (unchecked).

5.0 Create Access Requests for Cloud Applications

Use AC on-premise to create access requests for the target cloud applications.

6.0 Run Provisioning Jobs

In the Fiori Launchpad for IAG, run the provisioning job to retrieve provisioning requests from AC and push them to the target cloud application.



1. In the Fiori Launchpad for IAG open *Job Scheduler* app.
2. In the *Job Category* field, select **Provisioning**.
We recommend setting this as a recurring job.

The screenshot shows the SAP Job Scheduler configuration interface. The title is "Job Scheduler". It features four fields: "*Job Name:" with the value "ProvisioningJob", "*Job Category:" with a dropdown menu set to "Provisioning", "*Recurring Job:" with radio buttons for "Yes" (selected) and "No", and "*Start Immediately:" with radio buttons for "Yes" and "No" (selected).

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