

Configuration Guide
SAP S/4 HANA Access Request Integration with SAP Cloud
Identity Access Governance
January 2023
English

SAP S/4 HANA Access Request Integration with SAP Cloud Identity Access Governance

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1 Prerequisites

To implement the solution the following specific purchased license/product are required in order to use this IFlow

- SAP Cloud Identity Access Governance services
- SAP Identity Authentication service
- SAP Identity Provisioning service
- SAP Business Rules Service running on IAG Service
- SAP Cloud Integration Service
- S/4HANA Source Application
- Target Application (on-Premise, cloud)
- SAP Cloud Connector (optional)

Implementation sequence:

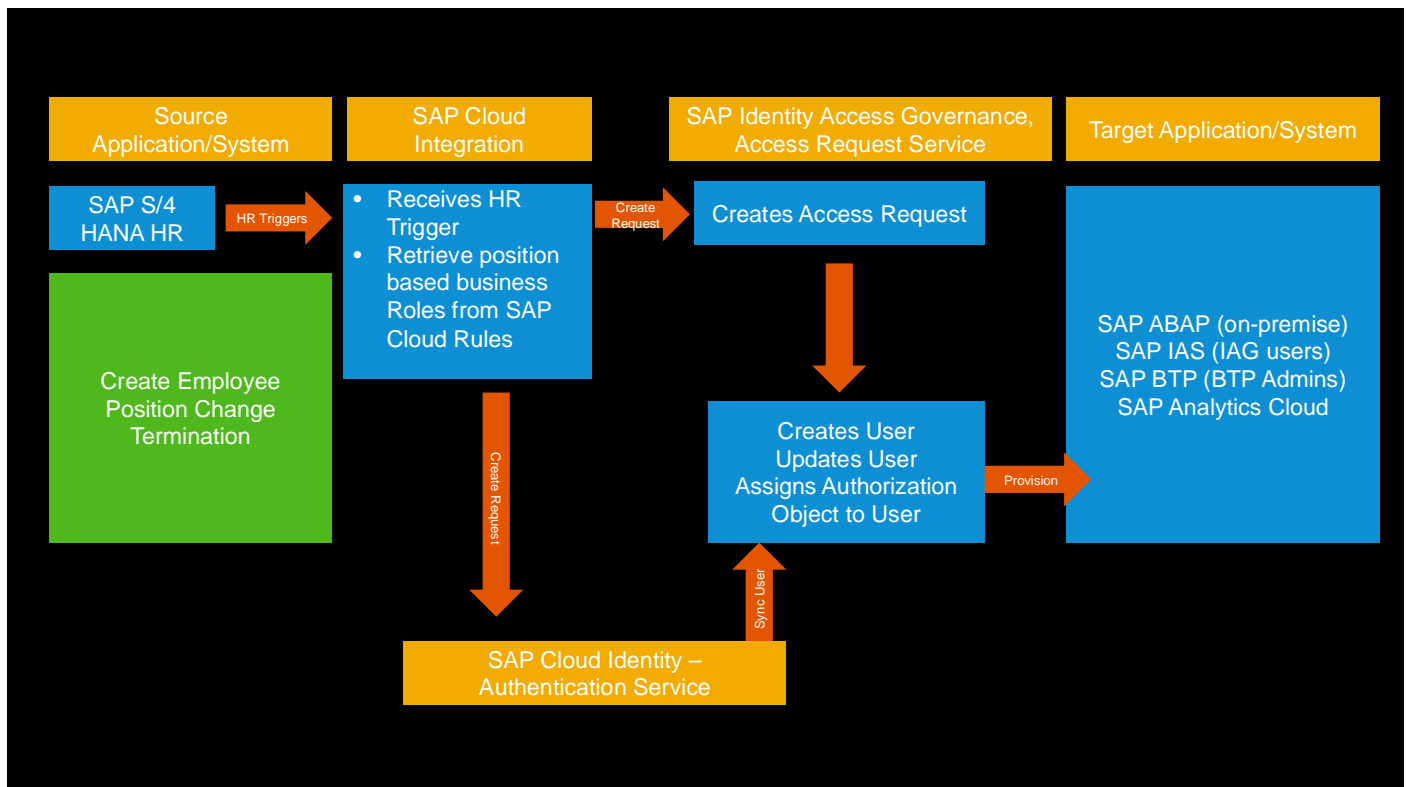
- Implement S/4HANA custom Abap code and schedule jobs, as required.
- Implement SAP IAG according to HR Driven Identity Lifecycle Management without SAP SF HR Trigger
https://help.sap.com/docs/SAP_CLOUD_IDENTITY_ACCESS_GOVERNANCE -> Integration Scenarios -> HR Driven Identity Lifecycle Management.
- Configure Business Rule for Role Determination via Business Rules API on SAP IAG subaccount.
- Configure SAP IAG Access Request via IAG API
- Configure and deploy custom SAP CPI IFlow to receive HR information and call IAG/Business Rule APIs.

2 Documentation

You can integrate the SAP Cloud Identity Access Governance solution with your S/4HANA HR systems. This enables changes in employee status (HR triggers) in the HR system (S/4 HANA) to initiate access requests. The access request service converts the data to change requests, which are then provisioned to target applications.

- The HR event triggers the creation of an access request in SAP Cloud IAG (Access Request Service) Abap Development requirements in section 4.
- SAP IAS Processes (check if new user, create user, read manager).
API Details: https://api.sap.com/api/IAS_SCIM/resource
- Role mapping is done via Business Rules within SAP Cloud IAG.
API Details: <https://api.sap.com/package/SAPCPBusinessRulesAPIs/rest>
- API Orchestrations done via SAP Cloud Integration Suite
- User is provisioned/deleted on the target system/s.

The illustration below shows a high-level process flow.



The next illustration below shows the custom integration process flow (iFlow) in detail.

3 Configuration steps on SAP Cloud Integration

3.1 Configure S/4HANA SOAP Sender Adapter

Configure the SOAP Sender Adapter via the following details. Security can be setup from S/4HANA either via OAuth or Certificate based authentication against the user role in SAP Cloud Integration.

Note: It's not recommended by SAP to use basic authentication in a production environment.

Configure "S4HANA to IAG Access Request Integration"

Sender Receiver More

Connection

Sender: SAP_ERP

Adapter Type: SOAP

Address: /v1/IAGAccessRequest

Authorization: User Role

User Role: ESBMessaging.send Select

Conditions

Body Size (in MB): 100

Example SOAMANAGER Configuration within S/4HANA (Transaction SOAMANAGER). Example shows authentication with OAuth2 but can be changed to any other authentication options.

Configuration: Consumer Proxy 'ZIAGCO_IAGACCESS_REQ', Logical Port 'ZIAGCO_IAGACCESS_REQ'

Save Edit Ping Web Service

Consumer Security Messaging Transport Settings Message Attachments Miscellaneous Identifiable Business Context Operation Settings

Configuration of Consumer Settings without WSDL Document. LP=ZIAGCO_IAGACCESS_REQ

Authentication Level: Basic

Authentication Settings

☐ User ID / Password

☐ SAP Authentication Assertion Ticket

☐ X.509 SSL Client Certificate

☒ OAuth 2

OAuth

OAuth Profile: ZCI_OAUTH

OAuth Configuration: ZCI_OAUTH

Consumer Security
Messaging
Transport Settings
Message Attachments
Identifiable Business Context
Operation Settings
Administrative Information

Reliable Messaging (Asynchr.)

RM Protocol:
SAP RM

Message ID (Synchronous)

Message ID Protocol:
Suppress ID Transfer

Metering of Service Calls

Data transfer scope:
Enhanced Data Transfer

Transfer protocol:
Transfer via SOAP header

Consumer Security
Messaging
Transport Settings
Message Attachments
Identifiable Business Context
Operation Settings
Administrative Information

URL Access Path

☒ URL
☐ URL components

* URL:
https://<CPI HOST>/cxf/v1/IAGAccessRequest

Logon Language:
Language of User Context

Proxy

Name of Proxy Host:

Port Number of Proxy Host:

User Name for Proxy Access:

Password of Proxy User:

3.2 Configure IAG HTTP Receiver Adapter

One API call to be setup against API:

https://{IAG Hostname}}/com/sap/grc/iag/service/eaccessrequest.svc/CreateRequestIAGInterface

Configure "Replicate Access Request from S4HANA to SAP IAG"

Sender
Receiver
More

Connection

Receiver:
SAP_IAG

Adapter Type:
HTTP

Address:
{{IAG Hostname}}/com/sap/grc/iag/service/eaccessrequest.svc/CreateRequestIAGInterface

IAG Hostname:
https://IAGHostAddress

Proxy Type:
Internet

Method:
POST

Authentication:
OAuth2 Client Credentials

Credential Name:
<IAG Credential Name>

Timeout (in ms):
60000

Throw Exception On Failure:
☒

Security Material - OAuth2 Client Credentials setup:

Setup: Client ID, Client Secret and Token Service URL from your IAG Service.

Edit OAuth2 Credentials

Name: * IAG_DEV

Grant Type: Client Credentials

Description:

Token Service URL: * https://<host>/oauth/token

Client ID: * sb-c3658feb-b052-4428-b915-da7d118ff65c!b9...

Client Secret: *

Client Authentication: Send as Request Header

Scope:

Content Type: application/json

Resource:

Audience:

Deploy Cancel

3.3 Configure IAS HTTP Receiver Adapter

One API call to be setup against IAS APIs:

https://{IAS Address}}/scim/Users

Configure "Replicate Access Request from S4HANA to SAP IAG"

Sender Receiver More

Connection

Receiver: SAP_IAS

Adapter Type: HTTP

Address: {IAS Address}}/scim/Users

IAS Address: https://IASHostAddress

Proxy Type: Internet

Authentication: Basic

Credential Name: <IAS Credential Name>

Timeout (in ms): 60000

Throw Exception On Failure: ☒

One API call to be setup against IAS APIs:

https://{IAS Address}}/scim/Groups/{IAS Group UUID}}

Maintain Group UUID, which needs to be defaulted within API call to assign a new user to the group.

Sender	Receiver	More
Connection		
Receiver:	SAP_IAS	
Adapter Type:	HTTP	
Address:	{{IAS Address}}/scim/Groups/{{IAS Group UUID}}	
IAS Address:	https://IASHostAddress	
IAS Group UUID:	IASGroupUUID	
Proxy Type:	Internet	
Authentication:	Basic	
Credential Name:	<IAS Credential Name>	
Timeout (in ms):	60000	
Throw Exception On Failure:	<input checked="" type="checkbox"/>	

Security Material - User Credentials setup:

Setup: User Name and Password from your IAS Service.

Edit User Credentials

Name: * IAS_DEV

Description:

Type: * User Credentials

User: * d7ba4c61-2b4d-da1c-95f4-dmo4aad2ec8g

Password:

Repeat Password:

Deploy Cancel

3.4 Configure Business Rules HTTP Receiver Adapter

During the runtime of the integration the new position and previous position ID to retrieve position based business Roles from SAP Cloud Business Rules.

One API call to be setup against Business Rule APIs:

https://{{BR Address}}/rules-service/rest/v2/workingset-rule-services

Sender **Receiver** More

Connection

Receiver: SAP_BusinessRule

Adapter Type: HTTP

Address: {{BR Address}}/rules-service/rest/v2/workingset-rule-services

BR Address: https://BusinessRuleRuntimeHostAddress

Proxy Type: Internet

Method: POST

Authentication: OAuth2 Client Credentials

Credential Name: <Business Rule Credential Name>

Timeout (in ms): 60000

Throw Exception On Failure: ☒

Security Material - OAuth2 Client Credentials setup:

Setup: Client ID, Client Secret and Token Service URL from your Business Rule Service.

Edit OAuth2 Credentials

Name: * BusinessRule_DEV

Grant Type: Client Credentials

Description:

Token Service URL: * https://<host>.authentication.ap10.hana.ondema...

Client ID: * sb-clone-e40f33e3-fc59-4e9a-aa53-6d6d48499f...

Client Secret: * ****

Client Authentication: Send as Request Header

Scope:

Content Type: application/json

Resource:

Audience:

Deploy Cancel

3.5 Configure Additional Parameters

The following additional parameters will need to be configured:

- RM Rule Service Id:
- Default Manager IAS UUID: HR Extract for employee will contain manager SU01.ID that will be used to find the PNUMBER of user in IAS, as Access Request API require P-number as manager. If no IAS manager is found then get the top (1) row of user assigned default manager group in IAS via IAS UUID for Default Manager Group.
- HTTP Session Reuse: leave set to onIntegrationFlow
- IAG Source: e.g. HCM
- IAS Host Name: Host Name of the IAS tenant
- Payload Logging: TRUE or FALSE
- Allowed Header: Leave blank.

- Subdomain of IAG: Subscriber tenant ID, which is the tenant Id from where to retrieve the token

Configure "S4HANA to IAG Access Request Integration"

Sender Receiver **More**

Type:	All Parameters
Allowed Header:	
BRM Rule Service Id:	f2873b47a7314f379c501106b877b4f7
Default Manager IAS UUID:	545d0bf4-a365-436d-aca5-bfa9d182bee6
HTTP Session Reuse:	onIntegrationFlow
IAG Source:	HCM
IAS Host Name:	<IAS Host>
Payload Logging TRUE or FALSE:	TRUE
Subdomain of IAG:	<Subdomain URL of IAG>

4 Abap Development S/4HANA Backend system

4.1 Design

SAP IDM use report [RPLDAP_EXTRACT_IDM](#) to extract HCM data, which can be used as baseline.

- Create a custom Abap consumer proxy (sync) to extract HCM data in similar manner as RPLDAP_EXTRACT_IDM
- Schedule job to call CPI Iflow, extract information and send to IAG
- Exception handling of synchronous response will need to be performed within Abap Proxy (e.g. log SLG1)

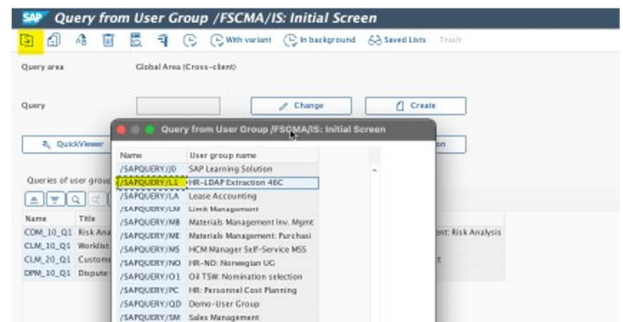
Extract Employee only when:

- A valid POSITION ID
- Alias = SNC NAME; ITO105, 9003
- SNC Name = p:CN=:<UPN>; ITO105, 9004
- USER GROUP = N/A
- USER = ITO105, 0001
- DEPARTMENT = N/A
- EMAIL = ITO105, 0010

RPLDAP_EXTRACT_IDM

Extracted/Processed Employees are marked as X

PERNR	AEDT	PROCESSED	TIMESTAMP
00000001	16.07.2015		20.150.716.853.142
00000002	23.07.2015		20.150.723.873.983
00000003	24.07.2015		20.150.724.852.082
00000004	24.11.2015		20.151.124.804.759
00000005	16.07.2015		20.150.716.851.823
00000006	20.07.2015		20.150.728.145.834
00000007	21.07.2015		20.150.721.858.635
00000008	24.07.2015		20.150.724.852.048
00000009	04.08.2015		20.150.804.851.090
00000010	06.08.2015		20.150.805.120.132
00000011	19.08.2015		20.150.819.844.384
00000012	01.09.2015		20.150.181.864.346
00000013	17.11.2015		20.151.117.863.748
00000014	18.11.2015		20.151.118.838.838
00000015	16.07.2015		20.150.716.183.848
00000016	23.07.2015		20.150.723.873.938
00000017	24.07.2015		20.150.724.852.034
00000018	04.08.2015		20.150.804.851.083
00000019	05.11.2015		20.151.140.951.041
00000020	19.09.2016		20.160.919.853.557
00000021	16.07.2015		20.150.716.855.754
00000022	18.11.2015		20.151.118.838.938
00000023	19.11.2015		20.151.119.888.323
00000024	19.09.2016		20.160.919.853.632
00000025	16.07.2015		20.150.716.182.838



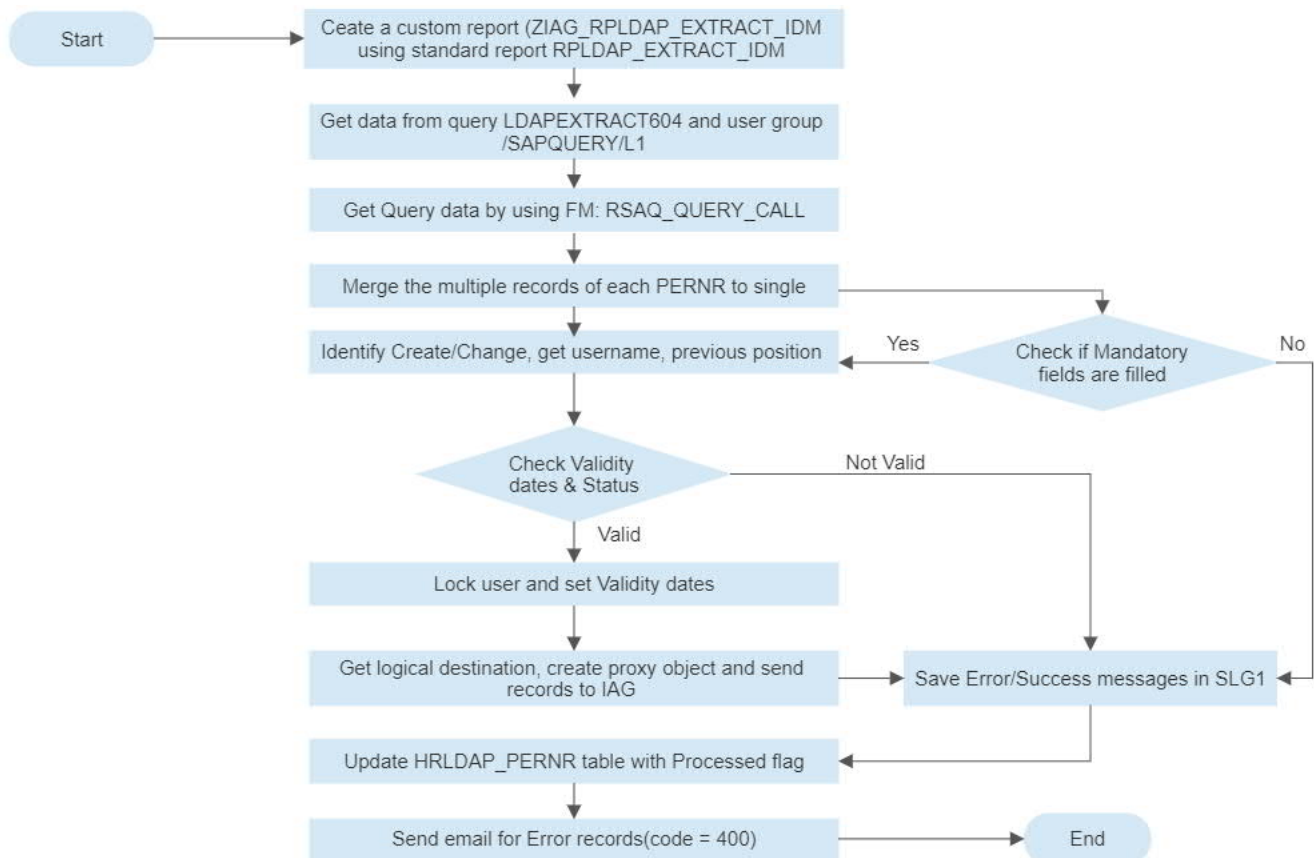
Pers No.	Central Person	Split Start	Split End	Last Name	First name	Name at Birth	Name of Employee or Applicant	Title	Title	Form of Address Key	Language of Communication and	Position	Position
00000001	00000001	01.01.2005	06.04.2022	Chapman	Wing		Mr Wing Chapman			1	EN	00000128	MANAGER
00000002	00000002	01.01.2005	20.07.2015	Schmidt	Paul		Mr Paul Schmidt			1	EN	99999999	Integration: default position
00000003	00000003	21.07.2015	06.04.2022	Schmidt	Paul		Mr Paul Schmidt			1	EN	00000132	New position
00000004	00000004	01.01.2005	04.11.2015	MSS	AA		AA MSS			1	EN	00000000	Integration: default position
00000005	00000005	01.01.2005	04.11.2015	MSS	AA		AA MSS			1	EN	99999999	Integration: default position
00000006	00000006	01.01.2005	04.11.2015	MSS	AA		AA MSS			1	EN	99999999	Integration: default position
00000007	00000007	01.01.2005	04.11.2015	MSS	AA		AA MSS			1	EN	00000135	manager
00000008	00000008	01.01.2005	04.11.2015	MSS	AA		AA MSS			1	EN	00000135	manager
00000009	00000009	01.01.2005	04.11.2015	MSS	AA		AA MSS			1	EN	00000135	manager
00000010	00000010	01.01.2005	04.11.2015	MSS	AA		AA MSS			1	EN	00000135	manager
00000011	00000011	01.01.2005	04.11.2015	MSS	AA		AA MSS			1	EN	00000135	manager
00000012	00000012	01.01.2005	04.11.2015	MSS	AA		AA MSS			1	EN	00000135	manager
00000013	00000013	01.01.2005	04.11.2015	MSS	AA		AA MSS			1	EN	00000135	manager
00000014	00000014	01.01.2005	04.11.2015	MSS	AA		AA MSS			1	EN	00000135	manager
00000015	00000015	01.01.2005	04.11.2015	MSS	AA		AA MSS			1	EN	00000135	manager
00000016	00000016	01.01.2005	04.11.2015	MSS	AA		AA MSS			1	EN	00000135	manager
00000017	00000017	01.01.2005	04.11.2015	MSS	AA		AA MSS			1	EN	00000135	manager
00000018	00000018	01.01.2005	04.11.2015	MSS	AA		AA MSS			1	EN	00000135	manager
00000019	00000019	01.01.2005	04.11.2015	MSS	AA		AA MSS			1	EN	00000135	manager
00000020	00000020	01.01.2005	04.11.2015	MSS	AA		AA MSS			1	EN	00000135	manager
00000021	00000021	01.01.2005	04.11.2015	MSS	AA		AA MSS			1	EN	00000135	manager
00000022	00000022	01.01.2005	04.11.2015	MSS	AA		AA MSS			1	EN	00000135	manager
00000023	00000023	01.01.2005	04.11.2015	MSS	AA		AA MSS			1	EN	00000135	manager
00000024	00000024	01.01.2005	04.11.2015	MSS	AA		AA MSS			1	EN	00000135	manager
00000025	00000025	01.01.2005	04.11.2015	MSS	AA		AA MSS			1	EN	00000135	manager

SQ01 Query : LDAPQUERY604

4.2 Pseudo Code

Technical Details:

Flow Diagram:



Steps:

- The standard report RPLDAP_EXTRACT_IDM is copied to a custom report (ZIAG_RPLDAP_EXTRACT_IDM).
- The standard report gets data from the query passed at selection screen.
- While executing report ZIAG_RPLDAP_EXTRACT_IDM, query used will be LDAPEXTRACT604 from user group: /SAPQUERY/L1
- Fetch the data by using standard Function module: RSAQ_QUERY_CALL.
- Merge the multiple records of each PERNR into single records taking the latest values of all the columns.
- The columns POS_ID, SNCNAME, UPNNAME, SYS_USER, E_MAIL, LAST_NAME are considered to be mandatory. It is required to check the condition for each PERNR.
- Identify each record whether it is a CREATE/CHANGE scenario. Get data from table HRLDAP_PERNR for all the PERNRs in progress.
- Get USERNAME for each PERNR's MNGT_PERS_NO from PA0105.
- Get the PREVIOUS POSITION ID from HRP1001 of the latest End date except 31.12.9999. For getting all the records UPTO TODAY – filter the records which have Begin Date > System Date.
- Skip the records which are not valid as of today and for which User position or Employment status has not changed
- Remove the Position id if the employee status is 'Withdrawn'
- Lock user and set User status and validity dates till system date.
- Get logical destination from parameter table and create proxy object to send data to IAG for creating access requests.
- Sent data to IAG via proxy and collect success/failure messages.
- The messages will be saved in the SLG1 log in the system with object = 'ZIAG' and Sub-object = 'ZIAG_SUB'.
- Update table 'HRLDAP_PERNR' with flag PROCESSED = X for the successful records.
- Send email for Error records (code = 400: position error) to the Distribution List maintained in the Parameter table.

Execution details:

Sample selection screen:

<

Extraction of HR Data to an LDAP Directory

Save as Variant...

More

Person Selection

Personnel Number: 11858

to:

Delta Download:

Delete Items from Delta Log:

LDAP Connection

RFC Connection:

LDAP Server:

SAPIDM

Connector:

LDAP_IDM

Optimization for LDAP Initial Run

Data Source

Global Query Area:

User Group:

/SAPQUERY/L1

Name:

LDAPEXTRACT604

Variant:

Z_IAG

Options

Delete Person in Directory:

with Employment Status:

Sample logging within transaction SLG1:

<

Display logs

Technical Information

More

Exit

Date/Time/User	Number	External ID	Object text	Subobject Text	Transaction code	Program
> 26.09.2022 14:45:04 AKASTURI	1		Identity Access Governa...	Identity Access Governa...	SE38	ZIAG_RPLDAF
> 26.09.2022 17:23:59 AKASTURI	1		Identity Access Governa...	Identity Access Governa...	SE38	ZIAG_RPLDAF
> 26.09.2022 17:28:03 AKASTURI	1		Identity Access Governa...	Identity Access Governa...	SE38	ZIAG_RPLDAF
> 26.09.2022 17:29:50 AKASTURI	1		Identity Access Governa...	Identity Access Governa...	SE38	ZIAG_RPLDAF
> 26.09.2022 17:31:46 AKASTURI	1		Identity Access Governa...	Identity Access Governa...	SE38	ZIAG_RPLDAF
> 26.09.2022 18:00:24 AKASTURI	1		Identity Access Governa...	Identity Access Governa...	SE38	ZIAG_RPLDAF
Problem class Important	1					

0

0

0

1

Type

Message Text

S: IAG005:200 User: IAG005-Request 213 created succesfully

4.3 WSDL for Abap Consumer Proxy

```
<?xml version="1.0" encoding="UTF-8"?>
<wsdl:definitions xmlns:pl="http://www.sap.com/IAGAccessRequest" xmlns:wsp="http://schemas.xmlsoap.org/ws/2004/09/policy" xmlns:wsu="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/" name="IAGAccessReq" targetNamespace="http://www.sap.com/IAGAccessRequest">
  <wsdl:documentation/>
  <wsdl:types>
    <xsd:schema targetNamespace="http://www.sap.com/IAGAccessRequest" xmlns="http://www.sap.com/IAGAccessRequest" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
      <xsd:element name="IAGAccessReq" type="IAGAccessReq"/>
      <xsd:element name="IAGAccessRes" type="IAGAccessRes"/>
      <xsd:complexType name="IAGAccessRes">
        <xsd:sequence>
          <xsd:element name="status" type="xsd:string"/>
          <xsd:annotation/>
        </xsd:sequence>
      </xsd:complexType>
    </xsd:schema>
  </wsdl:types>
</wsdl:definitions>
```

```

        <xsd:documentation>Status of the whole interface</xsd:documentation>
      </xsd:annotation>
    </xsd:element>
    <xsd:element name="item" minOccurs="0" maxOccurs="unbounded">
      <xsd:annotation>
        <xsd:documentation>Status per line item, if returned</xsd:documentation>
      </xsd:annotation>
      <xsd:complexType>
        <xsd:sequence>
          <xsd:element name="persNo" type="xsd:string"/>
          <xsd:element name="code" type="xsd:string"/>
          <xsd:element name="message" type="xsd:string" minOccurs="0"/>
          <xsd:element name="description" type="xsd:string" minOccurs="0"/>
        </xsd:sequence>
      </xsd:complexType>
    </xsd:element>
  </xsd:sequence>
</xsd:complexType>
<xsd:complexType name="LAGAccessReq">
  <xsd:sequence>
    <xsd:element name="item" maxOccurs="unbounded">
      <xsd:complexType>
        <xsd:sequence>
          <xsd:element name="action" type="xsd:string">
            <xsd:annotation>
              <xsd:documentation>create or change</xsd:documentation>
            </xsd:annotation>
          </xsd:element>
          <xsd:element name="persNo" type="xsd:string">
            <xsd:annotation>
              <xsd:documentation>Personnel Number</xsd:documentation>
            </xsd:annotation>
          </xsd:element>
          <xsd:element name="centralPerson" type="xsd:string" minOccurs="0">
            <xsd:annotation>
              <xsd:documentation>Central Person</xsd:documentation>
            </xsd:annotation>
          </xsd:element>
          <xsd:element name="splitStart" type="xsd:date" minOccurs="0">
            <xsd:annotation>
              <xsd:documentation>Start Date</xsd:documentation>
            </xsd:annotation>
          </xsd:element>
          <xsd:element name="splitEnd" type="xsd:date" minOccurs="0">
            <xsd:annotation>
              <xsd:documentation>End Date</xsd:documentation>
            </xsd:annotation>
          </xsd:element>
          <xsd:element name="lastName" type="xsd:string" minOccurs="0">
            <xsd:annotation>
              <xsd:documentation>Last Name</xsd:documentation>
            </xsd:annotation>
          </xsd:element>
          <xsd:element name="firstName" type="xsd:string" minOccurs="0">
            <xsd:annotation>
              <xsd:documentation>First Name</xsd:documentation>
            </xsd:annotation>
          </xsd:element>
          <xsd:element name="birthName" type="xsd:string" minOccurs="0">
            <xsd:annotation>
              <xsd:documentation>Name at Birth</xsd:documentation>
            </xsd:annotation>
          </xsd:element>
          <xsd:element name="empName" type="xsd:string" minOccurs="0">
            <xsd:annotation>
              <xsd:documentation>Formatted Name of Employee or
            </xsd:annotation>
          </xsd:element>
          <xsd:element name="TitleID" type="xsd:string" minOccurs="0">
            <xsd:annotation>
              <xsd:documentation>Academic title of person ID</xsd:documentation>
            </xsd:annotation>
          </xsd:element>
          <xsd:element name="Title" type="xsd:string" minOccurs="0">
            <xsd:annotation>
              <xsd:documentation>Academic title of person</xsd:documentation>
            </xsd:annotation>
          </xsd:element>
          <xsd:element name="formOfAddressKey" type="xsd:string" minOccurs="0">
            <xsd:annotation>
              <xsd:documentation>Form-of-Address Key</xsd:documentation>
            </xsd:annotation>
          </xsd:element>
          <xsd:element name="formOfAddress" type="xsd:string" minOccurs="0">
            <xsd:annotation>
              <xsd:documentation>Form-of-Address Name</xsd:documentation>
            </xsd:annotation>
          </xsd:element>
          <xsd:element name="language" type="xsd:string" minOccurs="0">
            <xsd:annotation>
              <xsd:documentation>Communication Language</xsd:documentation>
            </xsd:annotation>
          </xsd:element>
          <xsd:element name="posID" type="xsd:string" minOccurs="0">
            <xsd:annotation>
              <xsd:documentation>Position ID</xsd:documentation>
            </xsd:annotation>
          </xsd:element>
          <xsd:element name="pos" type="xsd:string" minOccurs="0">
            <xsd:annotation>
              <xsd:documentation>Position Name</xsd:documentation>
            </xsd:annotation>
          </xsd:element>
          <xsd:element name="prevPosID" type="xsd:string" minOccurs="0">
            <xsd:annotation>
              <xsd:documentation>Previous Position ID</xsd:documentation>
            </xsd:annotation>
          </xsd:element>
          <xsd:element name="jobID" type="xsd:string" minOccurs="0">
            <xsd:annotation>
              <xsd:documentation>Job ID</xsd:documentation>
            </xsd:annotation>
          </xsd:element>
          <xsd:element name="job" type="xsd:string" minOccurs="0">
            <xsd:annotation>
              <xsd:documentation>Job Name</xsd:documentation>
            </xsd:annotation>
          </xsd:element>
          <xsd:element name="orgUnitID" type="xsd:string" minOccurs="0">
            <xsd:annotation>
              <xsd:documentation>Organizational Unit ID</xsd:documentation>
            </xsd:annotation>
          </xsd:element>
          <xsd:element name="orgUnit" type="xsd:string" minOccurs="0">
            <xsd:annotation>
              <xsd:documentation>Organizational Unit Name</xsd:documentation>
            </xsd:annotation>
          </xsd:element>
          <xsd:element name="eSGrpID" type="xsd:string" minOccurs="0">

```

Applicant</xsd:documentation>


```

        <xsd:annotation>
            <xsd:documentation>Employee Subgroup ID</xsd:documentation>
        </xsd:annotation>
    </xsd:element>
    <xsd:element name="eSgrp" type="xsd:string" minOccurs="0">
        <xsd:annotation>
            <xsd:documentation>Employee Subgroup Name</xsd:documentation>
        </xsd:annotation>
    </xsd:element>
    <xsd:element name="workContractID" type="xsd:string" minOccurs="0">
        <xsd:annotation>
            <xsd:documentation>Work Contract ID</xsd:documentation>
        </xsd:annotation>
    </xsd:element>
    <xsd:element name="workContract" type="xsd:string" minOccurs="0">
        <xsd:annotation>
            <xsd:documentation>Work Contract Name</xsd:documentation>
        </xsd:annotation>
    </xsd:element>
    <xsd:element name="coCdID" type="xsd:string" minOccurs="0">
        <xsd:annotation>
            <xsd:documentation>Company Code ID</xsd:documentation>
        </xsd:annotation>
    </xsd:element>
    <xsd:element name="coCd" type="xsd:string" minOccurs="0">
        <xsd:annotation>
            <xsd:documentation>Company Code Name</xsd:documentation>
        </xsd:annotation>
    </xsd:element>
    <xsd:element name="pAID" type="xsd:string" minOccurs="0">
        <xsd:annotation>
            <xsd:documentation>Personnel Area ID</xsd:documentation>
        </xsd:annotation>
    </xsd:element>
    <xsd:element name="pA" type="xsd:string" minOccurs="0">
        <xsd:annotation>
            <xsd:documentation>Personnel Area Name</xsd:documentation>
        </xsd:annotation>
    </xsd:element>
    <xsd:element name="eGpID" type="xsd:string" minOccurs="0">
        <xsd:annotation>
            <xsd:documentation>Employee Group ID</xsd:documentation>
        </xsd:annotation>
    </xsd:element>
    <xsd:element name="eGp" type="xsd:string" minOccurs="0">
        <xsd:annotation>
            <xsd:documentation>Employee Group Name</xsd:documentation>
        </xsd:annotation>
    </xsd:element>
    <xsd:element name="pSubareaID" type="xsd:string" minOccurs="0">
        <xsd:annotation>
            <xsd:documentation>Personnel Subarea ID</xsd:documentation>
        </xsd:annotation>
    </xsd:element>
    <xsd:element name="pSubarea" type="xsd:string" minOccurs="0">
        <xsd:annotation>
            <xsd:documentation>Personnel Subarea Name</xsd:documentation>
        </xsd:annotation>
    </xsd:element>
    <xsd:element name="busAID" type="xsd:string" minOccurs="0">
        <xsd:annotation>
            <xsd:documentation>Business Area ID</xsd:documentation>
        </xsd:annotation>
    </xsd:element>
    <xsd:element name="busA" type="xsd:string" minOccurs="0">
        <xsd:annotation>
            <xsd:documentation>Business Area Name</xsd:documentation>
        </xsd:annotation>
    </xsd:element>
    <xsd:element name="costCtrID" type="xsd:string" minOccurs="0">
        <xsd:annotation>
            <xsd:documentation>Cost Center ID</xsd:documentation>
        </xsd:annotation>
    </xsd:element>
    <xsd:element name="costCtr" type="xsd:string" minOccurs="0">
        <xsd:annotation>
            <xsd:documentation>Cost Center Name</xsd:documentation>
        </xsd:annotation>
    </xsd:element>
    <xsd:element name="empStatusID" type="xsd:string" minOccurs="0">
        <xsd:annotation>
            <xsd:documentation>Employment Status ID</xsd:documentation>
        </xsd:annotation>
    </xsd:element>
    <xsd:element name="empStatus" type="xsd:string" minOccurs="0">
        <xsd:annotation>
            <xsd:documentation>Employment Status Name</xsd:documentation>
        </xsd:annotation>
    </xsd:element>
    <xsd:element name="sysUser" type="xsd:string" minOccurs="0">
        <xsd:annotation>
            <xsd:documentation>System User Name</xsd:documentation>
        </xsd:annotation>
    </xsd:element>
    <xsd:element name="eMail" type="xsd:string" minOccurs="0">
        <xsd:annotation>
            <xsd:documentation>E-mail</xsd:documentation>
        </xsd:annotation>
    </xsd:element>
    <xsd:element name="tele" type="xsd:string" minOccurs="0">
        <xsd:annotation>
            <xsd:documentation>Tele Area Code + Local Access
        </xsd:annotation>
    </xsd:element>
    <xsd:element name="teleExten" type="xsd:string" minOccurs="0">
        <xsd:annotation>
            <xsd:documentation>Tele Extension</xsd:documentation>
        </xsd:annotation>
    </xsd:element>
    <xsd:element name="mobile" type="xsd:string" minOccurs="0">
        <xsd:annotation>
            <xsd:documentation>Mobile Number</xsd:documentation>
        </xsd:annotation>
    </xsd:element>
    <xsd:element name="mngtPersNo" type="xsd:string" minOccurs="0">
        <xsd:annotation>
            <xsd:documentation>Personnel number of superior (Org.
        </xsd:annotation>
    </xsd:element>
    <xsd:element name="mngtUser" type="xsd:string" minOccurs="0">
        <xsd:annotation>
            <xsd:documentation>Personnel User ID of superior (Org.
        </xsd:annotation>
    </xsd:element>
    <xsd:element name="buildingID" type="xsd:string" minOccurs="0">
        <xsd:annotation>
            <xsd:documentation>Building</xsd:documentation>

```

```

        </xsd:annotation>
      </xsd:element>
      <xsd:element name="building" type="xsd:string" minOccurs="0">
        <xsd:annotation>
          <xsd:documentation>Building</xsd:documentation>
        </xsd:annotation>
      </xsd:element>
      <xsd:element name="city" type="xsd:string" minOccurs="0">
        <xsd:annotation>
          <xsd:documentation>City</xsd:documentation>
        </xsd:annotation>
      </xsd:element>
      <xsd:element name="cty" type="xsd:string" minOccurs="0">
        <xsd:annotation>
          <xsd:documentation>Country/Region</xsd:documentation>
        </xsd:annotation>
      </xsd:element>
      <xsd:element name="sourceSys" type="xsd:string" minOccurs="0">
        <xsd:annotation>
          <xsd:documentation>Source System</xsd:documentation>
        </xsd:annotation>
      </xsd:element>
      <xsd:element name="address" type="xsd:string" minOccurs="0">
        <xsd:annotation>
          <xsd:documentation>Street and House Number</xsd:documentation>
        </xsd:annotation>
      </xsd:element>
      <xsd:element name="roomNo" type="xsd:string" minOccurs="0">
        <xsd:annotation>
          <xsd:documentation>Physical Room Number</xsd:documentation>
        </xsd:annotation>
      </xsd:element>
      <xsd:element name="mngFlag" type="xsd:string" minOccurs="0">
        <xsd:annotation>
          <xsd:documentation>Personnel Number is Manager Flag</xsd:documentation>
        </xsd:annotation>
      </xsd:element>
      <xsd:element name="nickName" type="xsd:string" minOccurs="0">
        <xsd:annotation>
          <xsd:documentation>Nick Name</xsd:documentation>
        </xsd:annotation>
      </xsd:element>
      <xsd:element name="pegasusID" type="xsd:string" minOccurs="0">
        <xsd:annotation>
          <xsd:documentation>Pegasus ID</xsd:documentation>
        </xsd:annotation>
      </xsd:element>
      <xsd:element name="SNCName" type="xsd:string" minOccurs="0">
        <xsd:annotation>
          <xsd:documentation>SNC Name</xsd:documentation>
        </xsd:annotation>
      </xsd:element>
      <xsd:element name="UPNName" type="xsd:string" minOccurs="0">
        <xsd:annotation>
          <xsd:documentation>UPN Name</xsd:documentation>
        </xsd:annotation>
      </xsd:element>
    </xsd:sequence>
  </xsd:complexType>
</xsd:sequence>
</xsd:element>
</xsd:schema>
</wsdl:types>
<wsdl:message name="IAGAccessReq">
  <wsdl:documentation/>
  <wsdl:part name="IAGAccessReq" element="p1:IAGAccessReq"/>
</wsdl:message>
<wsdl:message name="IAGAccessRes">
  <wsdl:documentation/>
  <wsdl:part name="IAGAccessRes" element="p1:IAGAccessRes"/>
</wsdl:message>
<wsdl:portType name="IAGAccessReq">
  <wsdl:documentation/>
  <wsdl:operation name="IAGAccessReq">
    <wsdl:documentation/>
    <wsp:Policy>
      <wsp:PolicyReference URI="#OP_IAGAccessReq"/>
    </wsp:Policy>
    <wsdl:input message="p1:IAGAccessReq"/>
    <wsdl:output message="p1:IAGAccessRes"/>
  </wsdl:operation>
</wsdl:portType>
<wsdl:binding name="IAGAccessReqBinding" type="p1:IAGAccessReq">
  <soap:binding style="document" transport="http://schemas.xmlsoap.org/soap/http" xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/">
    <wsdl:operation name="IAGAccessReq">
      <soap:operation soapAction="http://sap.com/xi/WebService/soap1.1" xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/">
        <wsdl:input>
          <soap:body use="literal" xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/">
        </wsdl:input>
        <wsdl:output>
          <soap:body use="literal" xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/">
        </wsdl:output>
      </wsdl:operation>
    </wsdl:binding>
    <wsp:UsingPolicy wsdl:required="true"/>
    <wsp:Policy wsu:Id="OP_IAGAccessReq"/>
  </wsdl:definitions>

```

4.4 Example Request / Response

```

<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <n0:IAGAccessReq xmlns:n0="http://www.sap.com/IAGAccessRequest">
      <item>
        <action>CHANGE</action>
        <persNo>00012389</persNo>
        <centralPerson>50026319</centralPerson>
        <splitStart>2022-10-31</splitStart>
        <splitEnd>9999-12-31</splitEnd>
      </item>
    </n0:IAGAccessReq>
  </soap:Body>
</soap:Envelope>

```

```

        <lastName>Tina</lastName>
        <firstName>Turner</firstName>
        <empName> Tina Turner </empName>
        <formOfAddressKey>1</formOfAddressKey>
        <formOfAddress>Mr</formOfAddress>
        <posID>50007014</posID>
        <pos>Plant Operator</pos>
        <prevPosID>50011210</prevPosID>
        <jobID>00000000</jobID>
        <orgUnitID>50006720</orgUnitID>
        <orgUnit>Crew</orgUnit>
        <eSgrpID>A4</eSgrpID>
        <eSgrp>Wages Annualised</eSgrp>
        <coCdID>4250</coCdID>
        <coCd>Coal Limited</coCd>
        <pAID>1312</pAID>
        <pA>Coal</pA>
        <eEGrpID>1</eEGrpID>
        <eEGrp>Full Time</eEGrp>
        <pSubareaID>WA01</pSubareaID>
        <pSubarea>Premier</pSubarea>
        <costCtrID>0042503100</costCtrID>
        <costCtr>Ops Management</costCtr>
        <empStatusID>3</empStatusID>
        <empStatus>Active</empStatus>
        <sysUser> TTURNER </sysUser>
        <eMail>Tina.Turner@music.com </eMail>
        <mobile>0451 495 099</mobile>
        <mngtPersNo>00002467</mngtPersNo>
        <mngtUser>MANAGER1</mngtUser>
        <sourceSys>XXXCLNT100</sourceSys>
        <SNCName>Tina.Turner</SNCName>
        <UPNName>Tina.Turner@music.com</UPNName>
    </item>
</n0:IAccessReq>
</soap:Body>
</soap:Envelope>

```

Success:

```

<?xml version="1.0" encoding="UTF-8"?>
<n1:IAccessRes xsi:schemaLocation="http://www.sap.com/IAccessRequest IAGAccessRes.xsd"
xmlns:n1="http://www.sap.com/IAccessRequest" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
    <status>Success</status>
    <item>
        <persNo> TTURNER </persNo>
        <code>200</code>
        <message>Request 4 created succesfully</message>
    </item>
</n1:IAccessRes>

```

Item Error:

```

<?xml version="1.0" encoding="UTF-8"?>
<n1:IAccessRes xsi:schemaLocation="http://www.sap.com/IAccessRequest IAGAccessRes.xsd"
xmlns:n1="http://www.sap.com/IAccessRequest" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
    <status>Success</status>
    <item>
        <persNo> TTURNER</persNo>
        <code>400</code>
        <message>Item BR_POS_50007014 does not exist in repository </message>
    </item>
</n1:IAccessRes>

```

Integration Error:

```

<n1:IAccessRes xsi:schemaLocation="http://www.sap.com/IAccessRequest IAGAccessRes.xsd"
xmlns:n1="http://www.sap.com/IAccessRequest" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
    <status>Error: <captured exception message></status>
</n1:IAccessRes>

```

