

HP OpenView Select Identity

3270 Emulation Connector for RACF for OS/390 V2 R10

Installation and Configuration Guide

**Connector Version: 3.2
Select Identity Version: 3.3**



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- Commons-beanutils.
- Commons-collections.
- Commons-logging.
- Commons-digester.
- Commons-httpclient.

- Element Construction Set (ecs).
- Jakarta-poi.
- Jakarta-regexp.
- Logging Services (log4j).

Additional third party software used by Select Identity includes:

- JasperReports developed by SourceForge.
- iText (for JasperReports) developed by SourceForge.
- BeanShell.
- Xalan from the Apache XML Project.
- Xerces from the Apache XML Project.
- Java API for XML Processing from the Apache XML Project.
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contents

Chapter 1	Installing the Connector	7
	System Requirements	8
	Creating Macros	8
	Logon Macro	10
	Post-creation Macro	14
	Macro Commands	14
	Sample Macros	15
	Deploying on the Web Application Server	15
Chapter 2	Understanding the Mapping File	17
	General Information	18
	RACF Mapping Information	21
Chapter 3	Configuring the Connector	23
Chapter 4	Uninstalling the Connector	26

Installing the Connector

The 3270 Emulation Connector for RACF — hereafter referred to as the RACF connector — enables HP OpenView Select Identity to perform the following tasks in RACF security systems on OS/390 mainframes:

- Add, update, and remove users
- Retrieve user attributes
- Enable and disable users
- Verify a user's existence
- Change user passwords
- Reset user passwords
- Retrieve all entitlements
- Retrieve a list of supported user attributes
- Assign and unassign entitlements to and from users

It is a one-way connector and pushes changes made to user data in the Select Identity database to a target server.

The RACF connector is packaged in the following files:

- `RacfConnector.rar` – contains the resource adapter (connector files)
- `RacfSchema.jar` – contains the mapping file, which controls how Select Identity fields are mapped to RACF table columns, and several example macros

These files are located in the `3270 Emulation for RACF` directory on the Select Identity Connector CD.

System Requirements

The RACF connector is supported in the following environment:

Select Identity Version	Application Server	Database
3.0.2	WebLogic 8.1.2 on Windows 2003	SQL Server 2000
3.3	WebLogic 8.1.4 on Windows 2003	SQL Server 2000

This connector is supported with RACF security systems on OS/390 or z/OS, version 2 release 10. In addition, the RACF connector uses the IBM SecureWay Host Access Class Library, version 3.0.4-B20000515, to communicate with RACF.

Creating Macros

The RACF connector uses “screen scraping” to establish a session and perform provisioning operations using the 3270 emulator. The commands that are used during the initial logon phase can vary greatly depending on the 3270 emulator used. For this reason, the RACF connector supports the configuration of a macro that defines logon session request and response sequences. This macro is loaded and executed by the connector at run time to establish the session with server.

You must manually create the macro using a text editor. You can obtain the command sequence for the logon session using any 3270 emulator client against the 3270 server where users will be provisioned by the connector. This is an important step in deploying the RACF connector. If the macro does not execute the actual command sequence, the connector cannot communicate with the 3270 server.

Use an existing 3270 emulator, or download one from an available site, install the emulator, and connect to the system. This chapter does not provide installation instructions for the emulator because the procedure is dependent on the chosen emulator. However, you will need the following information to connect to the system:

- Host name or IP address of the 3270 server
- Port number of the server
- User profile with administrative privileges, which will be used to provision users
- Password of the administrative user

Use this information to establish a session with the 3270 server. The screen should show you options to log on.

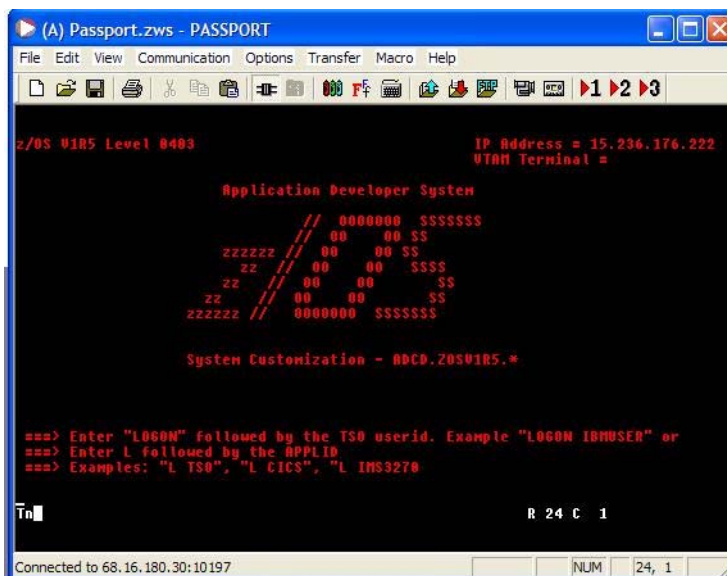
Logon Macro

This macros is required and must contain the sequence of request and response messages to be sent to establish a logon session with the server.

The following are example screens that are used to test the RACF connector.

- Initial Screen

The administrative user ID is provided on this screen. Here is an example screen that displays when you first connect to the 3270 server:



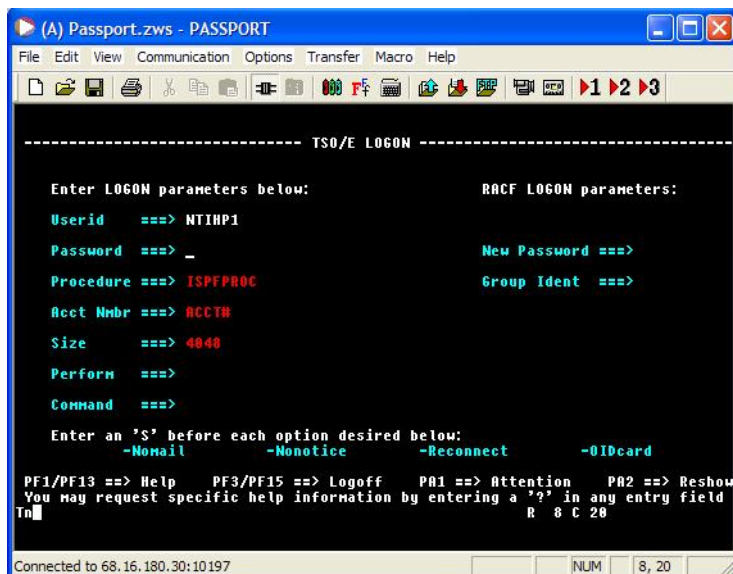
This screens displays the following:

- Wait for a "LOGON" word after the initial connection
- Log on to the system by giving the TSO user ID with the LOGON command, as in this example:

LOGON NTIHP1

- Password Screen

The following screen displays after the LOGIN NTIHP1 command is issued in the previous screen. It prompts you for the administrative password:



- Welcome Screen

After entering the correct password, the system displays a welcome screen, which might look like this:

```

(A) Passport.zws - PASSPORT
File Edit View Communication Options Transfer Macro Help

ICH700011 NTINP3 LAST ACCESS AT 09:04:11 ON THURSDAY, NOVEMBER 11, 2004
IKJ564551 NTINP3 LOGON IN PROGRESS AT 23:55:07 ON NOVEMBER 11, 2004
IKJ569511 NO BROADCAST MESSAGES

*****
* APPLICATION DEVELOPMENT SYSTEM, ADS *
* BUILT BY THE APPLICATION DEVELOPMENT CDROM, ADCD *
* ADCD.ZOSU1R5.CLIST(ISPFC1) PRODUCES THIS MESSAGE *
* ADCD.* DATASETS CONTAIN SYSTEM CUSTOMIZATION *
* SMP/E DATASETS CAN BE LOCATED FROM 3.4 WITH DSNAME **.*CSI *
* HTTP://DTSC.DAL-EBIS.INOBT.COM/ADCD CONTAINS DOCUMENTATION *
*****

USERID          PASSWORD          COMMENT
-----          -
IDUSER          - SYS1/IDUSER FULL AUTHORITY
P390            - P390
P390A THRU P390Z - TEST LIMITED AUTHORITY(NO OMVS)*
OPEN1 THRU OPEN3 - SYS1 UID(0) (NO TSO)

*****

READY
***
To  - R 24 C 6

Connected to 68.16.180.30:10197 NUM 24, 6

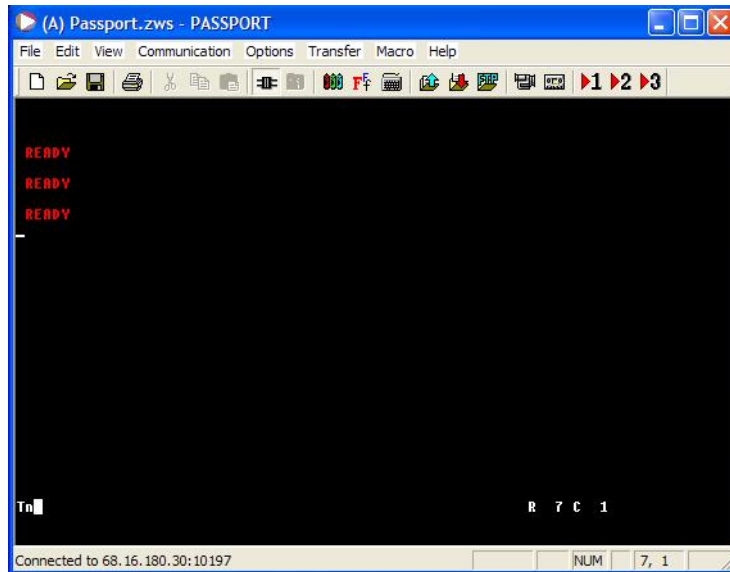
```

This shows the following:

- The login was successful
- The system is ready for additional commands
- The *** prompt means more input is expected and requires that you to send an ENTER command

- Ready Screen

The system is ready for your command:



You must send several ENTER commands to display the System Ready Screen. You can then enter RACF commands.

Based on the screen output, the following is the sequence of steps required to establish a successful session with the 3270 server:

- Wait for LOGON
- Send LOGON <userid> <ENTER>
- Wait for Password ===>
- Send the password
- Send several <ENTER> commands to display the Ready Screen
- Wait for READY by the system

Here is the macro for this session:

```
Wait("LOGON");Send(LOGON ${user}[enter]);
Wait(Password ===>);Send(${password}[enter]);Delay(1000);
Send([enter]);Send([enter]);Wait(READY)
```

Post-creation Macro

Some systems require that a sequence of commands are executed on a newly created user to grant privileges. If your system requires this, the RACF connector can run another macro after creating a new user. The location of this macro can be given in the connection parameters section when deploying the resource.

Here is an example of a post-creation macro, which gives some permissions to the user, such as allowing him to log on to the system:

```
Wait(READY);Send(ALTUSER ${loginUserId} TSO(ACCTNUM(ACCT#)
PROC(ISPFPROC) JOBCLASS(A) MSGCLASS(X) HOLDCLASS(X) SYSOUTCLASS(X)
SIZE(4048) MAXSIZE(0))[enter]);Wait(READY);
Send(PERMIT ACCT# CLASS(ACCTNUM) ID(${loginUserId}))[enter]);
Wait(READY);Send(PERMIT ISPFPROC CLASS(TSOPROC)
ID(${loginUserId}))[enter]);Wait(READY);Send(PERMIT DBSPROC
CLASS(TSOPROC) ID(${loginUserId}))[enter]);Wait(READY);Send(PERMIT
JCL CLASS(TSOAUTH) ID(${loginUserId}))[enter]);Wait(READY);
Send(PERMIT OPER CLASS(TSOAUTH) ID(${loginUserId}))[enter]);
Wait(READY);Send(PERMIT ACCT CLASS(TSOAUTH)
ID(${loginUserId}))[enter]);Wait(READY);Send(PERMIT MOUNT
CLASS(TSOAUTH) ID(${loginUserId}))[enter]);Wait(READY);
Send(SETROPTS REFRESH RACLIST(TSOPROC)[enter]);Wait(READY)
```

Macro Commands

You can specify the following commands in a macro:

- **Wait**
Wait for the occurrence of a given string
- **Send**
Send the given string to the server
- **Delay**
Delay the macro for a specified number of milliseconds, to synchronize with the server

- Special values

The following special values can be given in the macro:

`${user}` — Provides the administrative user ID

`${password}` — Sends the administrative user's password

`${app}` — Sends the application name

Some systems require the application name, such as TSO4, to be sent to the system. This name is sent from the connection parameters:

`${loginUserId}` - Specifies the user ID of the user being created

`[enter]` - Send an <ENTER> command

Sample Macros

The `RacfSchema.jar` file is shipped with the following macros:

- `LoginSequence.txt` — Sample shown on [page 13](#)
- `PostCreate.txt` — Macro that can be run after users are created
- `SampleLoginSequence_1.txt` — Additional login sample macro
- `SampleLoginSequence_2.txt` — Additional login sample macro

Deploying on the Web Application Server

To install the RACF connector on the Select Identity server, complete these steps.



Perform this procedure after the Select Identity product installation. The application server used in this procedure is WebLogic 8.1, therefore you must be familiar with the WebLogic platform.

- 1 Create a subdirectory in the Select Identity home directory where the connector's RAR file will reside. For example, you could create the `C:\Select_Identity\connectors` folder on Windows. (A connector subdirectory may already exist.)

- 2 Create a schema subdirectory in the Select Identity home directory where the connector's mapping file(s) will reside. For example, you could create the `C:\Select_Identity\schema` folder. (This subdirectory may already exist.)
- 3 Copy the `RacfConnector.rar` file from the Select Identity Connector CD to the connector subdirectory.
- 4 Extract the contents of the `RacfSchema.jar` file (on the Select Identity Connector CD) to the schema subdirectory.
- 5 Ensure that the CLASSPATH environment variable in the WebLogic server startup script references the schema subdirectory.
- 6 Modify the mapping file, if necessary. See [Understanding the Mapping File on page 17](#) for details.
- 7 Start the application server if it is not currently running.
- 8 Log on to the WebLogic Server Console.
- 9 Navigate to **My_domain -> Deployments -> Connector Modules**.
- 10 Click **Deploy a New Connector Module**.
- 11 Locate and select the `RacfConnector.rar` file from the list.
- 12 Click **Target Module**.
- 13 Select the **My Server** (your server instance) check box.
- 14 Click **Continue**. Review your settings.
- 15 Keep all default settings and click **Deploy**.

The Status of Last Action column should display Success.

After installing the connector, see [Configuring the Connector on page 23](#) for information about registering and configuring the connector in Select Identity.

Understanding the Mapping File

The RACF connector is deployed with the `RACF.xml` mapping file, which describes the attributes required by the system. The file is created in XML, according to SPML standards, and is bundled in a JAR file called `RacfSchema.jar`. The mapping file is used to map user account additions and modifications from Select Identity to the RACF user table. When you deploy a resource using the Resources page of the Select Identity client, you can review this file.

You can create attributes that are specific to Select Identity using the Attributes page in the Select Identity client. These attributes can be used to associate Select Identity user accounts with system resources by editing the connector mapping file described in this chapter. This process becomes necessary because, for example, a single attribute “username” can have a different name on different resources, such as “login” for UNIX, “UID” for a database, and “USERID” in RACF.

This file does not need to be edited unless you want to map additional attributes to your resource. If attributes and values are not defined in this mapping file, they cannot be saved to the resource through Select Identity.

General Information

The following operations can be performed in the mapping file:

- Add a new attribute mapping
- Delete an existing attribute mapping
- Modify attribute mappings

Here is an explanation of the elements in the XML mapping file:

- **<Schema>**, **<providerID>**, and **<schemaID>**

Provides standard elements for header information.

- **<objectClassDefinition>**

Defines the actions that can be performed on the specified object as defined by that name attribute (in the **<properties>** element block) and the Select Identity-to-resource field mappings for the object (in the **<memberAttributes>** block). For example, the object class definition for users defines that users can be created, read, updated, deleted, reset, and expired in RACF.

- **<properties>**

Defines the operations that are supported on the object. This can be used to control the operations that are performed through Select Identity. The following operations can be controlled:

- Create (CREATE)
- Read (READ)
- Update (UPDATE)
- Delete (DELETE)
- Enable (ENABLE)
- Disable (DISABLE)
- Reset password (RESET_PASSWORD)
- Expire password (EXPIRE_PASSWORD)
- Change password (CHANGE_PASSWORD)

The operation is assigned as the name of the <attr> element and access to the operation is assigned to a corresponding <value> element. You can set the values as follows:

- true — the operation is supported by the connector
- false — the operation is not supported by the connector
- bypass — the operation is not supported by the connector

Here is an example:

```
<objectClassDefinition name="User" description="RACF User">
  <properties>
    <attr name="CREATE">
      <value>true</value>
    </attr>
    <attr name="READ">
      <value>true</value>
    </attr>
  ...
</objectClassDefinition>
```

- **<memberAttributes>**

Defines the attribute mappings. This element contains <attributeDefinitionReference> elements that describe the mapping for each attribute. Each <attributeDefinitionReference> must be followed by an <attributeDefinition> element that specifies details such as minimum length, maximum length, and so on.

Each <attributeDefinitionReference> element contains the following attributes:

- Name — the name of the reference.
- Required— if this attribute is required in the provisioning (set to true or false).
- Concero:tafield — the name of the Select Identity resource attribute.
- Concero:resfield — the name of the physical resource attribute from the resource schema. If the resource does not support an explicit schema (such as UNIX), this can be a tag field that indicates a resource attribute mapping.

- **Concero:isKey** — An optional attribute that, when set to true, specifies that this is the key field to identify the object on the resource. Only one `<attributeDefinitionReference>` can be specified where `isKey="true"`. This key field does not need to be the same as the key field of the identity object in Select Identity.
- **Concero:init** — An optional attribute that identifies that the attribute is initialized with the value of the attribute passed in from Select Identity.

Here is an example:

```
<memberAttributes>
  <attributeDefinitionReference name="User Name"
    required="true" concero:tafield="User Name"
    concero:resfield="UserId" concero:isKey="true"
    concero:init="true" />
  <attributeDefinitionReference name="Password"
    required="false" concero:tafield="Password"
    concero:resfield="PASSWORD" concero:init="true" />
  <attributeDefinitionReference name="DefaultGroup"
    required="false" concero:tafield="Default Group"
    concero:resfield="DFLTGRP" concero:init="true" />
  <attributeDefinitionReference name="Owner"
    required="false" concero:tafield="Owner"
    concero:resfield="OWNER" concero:init="true" />
  <attributeDefinitionReference name="Common Name"
    required="true" concero:tafield="'[FirstName] [LastName]'"
    concero:resfield="NAME" concero:init="true" />
</memberAttributes>
```

The interpretation of the mapping between the connector field (as specified by the `Concero:tafield` attribute) and the resource field (as specified by the `Concero:resfield` attribute) is determined by the connector. The RACF connector has code to interpret the mappings in one way, as follows:

- The connector attribute names are specified in square braces, like this: `[xyz]`. The value of attribute `xyz` is taken from the UserModel during provisioning.
- Composite attributes can be specified in the RACF connector mapping file. To do this, specify `[attr1] xxxx [attr2]` as the connector attribute. This specifies that the value of the `attr1` and

attr2 attributes should be combined with the string xxxx to form a mapping for the specified resource field. RACF connector has code to handle these composite mappings.

- **<attributeDefinition>**

Defines the properties of each object's attribute. For example, the attribute definition for the Directory attribute defines that it must be between one and ten characters in length and can contain the following letters, numbers, and characters: a-z, A-Z, 0-9, @, and a +.

Here is an excerpt from the RACF.xml file:

```
<attributeDefinition name="User Name" description="userId"
type="xsd:string" >
  <properties>

    <attr name="minLength">
      <value>1</value>
    </attr>
    <attr name="maxLength">
      <value>10</value>
    </attr>
    <attr name="pattern">
      <value><![CDATA[[a-zA-Z0-9@]+]]> </value>
    </attr>
  ...
```

- **<concerro:entitlementMappingDefinition>**

Defines how entitlements are mapped to users.

- **<concerro:objectStatus>**

Defines how to assign status to a user.

- **<concerro:relationshipDefinition>**

Defines how to create relationships between users.

RACF Mapping Information

The RACF connector supports the following identify information to be provisioned on the 3270system. You can add, modify, or delete attributes once you are familiar with the contents of this file. You can edit the Select Identity

resource attributes; they reflect the identity information as seen in Select Identity. The physical resource attributes are literal attributes of user accounts on HP-UX. These attributes cannot be changed.

Select Identity Resource Attribute	RACF User Attribute	Description	Mandatory
UserName	USERID	Maximum length is seven characters.	Yes
Password	PASSWORD	Minimum length is eight characters.	No
Default Group	DFLTGRP	Default group of the user in the system. If not assigned, the system will assign a default group.	No
Owner	OWNER	Owner of the user being created. If not assigned, the administrative user who is creating this user is assigned as the owner.	No
[First Name] [Last Name]	NAME	Full name of the user	No

Configuring the Connector

After you deploy the connector on the application server, you must configure Select Identity to use the connector by deploying it in the Select Identity client. The following provides an overview of the procedures you must complete in order to deploy your connector. It also provides connector-specific information you must provide when configuring Select Identity to use the connector.



If Test and Submit fails, the 3270 emulator may be active. The 3270 server allows only one logon session at a time per user. If the ID assigned to the connector (in the logon macro) is currently in use, you must first quit the 3270 emulator then retry the resource deployment.

- 1 Register the connector with Select Identity by clicking the **Deploy New Connector** button on the Connectors home page. Complete this procedure as described in the “Connectors” chapter of the *HP OpenView Select Identity Administrator Guide*.

After you deploy the connector, the connector properties will look similar to this:

Connector Information	
* Connector Name:	<input type="text" value="RACFConnector"/>
* Pool Name:	<input type="text" value="eis/RacfConnector"/>

- 2 Deploy a resource that uses the newly created connector. On the Resources home page, click the **Deploy New Resource** button. Complete the steps in this procedure as described in the “Resources” chapter of the *HP OpenView Select Identity Administrator Guide*. After you deploy the resource for the connector, the Basic Info page of the resource properties will look similar to this:

[Home](#) > [Resources](#) > [Deploy New Resource](#)

Type in the name and a brief description of the resource being deployed. Next, select the resource type and owner. Click “Save & Continue” when finished.

Resource Information	
* Resource Name:	<input type="text" value="RACF"/>
Resource Description:	<div><div></div><div></div></div>
* Resource Type:	<input type="text" value="RACF"/>
* Authoritative Source:	<input type="radio"/> Yes <input checked="" type="radio"/> No
* Delete User:	<input checked="" type="radio"/> Yes <input type="radio"/> No
Reconciliation Workflow:	<input type="text" value="ReconciliationDefaultProcess"/>
Resource Owner:	<input type="text" value="sis"/>

The Additional Info page of the resource properties will look similar to this:

Resource Information	
Resource Name:	RACF
<input checked="" type="checkbox"/> Manage User	
Associate to Group:	<input checked="" type="checkbox"/>

The Access Info page of the resource properties will look like this:

Resource Access Information	
* Resource Name:	RACF
* Host Name:	16.73.17.91
* Port Number:	23
* Admin User Name:	sitest
* Admin Password:	*****
* Initial Login Macro:	LoginSequence.txt
Application Name:	TSO
Post Create Macro:	
* Timeout (seconds) :	60
* Mapping File:	RACF.xml View

- 3 Create attributes that link Select Identity to the connector. For each mapping in the connector's mapping file, create an attribute using the Attributes capability on the Select Identity client. Refer to the "Attributes" chapter in the *HP OpenView Select Identity Administrator Guide* for more information.
- 4 Create a Service that will use the newly created resource. To do so, click the **Deploy New Service** button on the Services home page. Complete this procedure as described in "Services" of the *HP OpenView Select Identity Administrator Guide*. You will reference your new resource created in [Step 2](#) while creating this service.

Uninstalling the Connector

If you need to uninstall a connector from Select Identity, make sure that the following are performed:

- All resource dependencies are removed.
- The connector is deleted using the Select Identity client Connectors pages.

Perform the following to delete a connector:

- 1 Log on to the WebLogic Server Console.
- 2 Navigate to ***My_Domain*** → **Deployments** → **Connector Modules**.
- 3 Click the delete icon next to the connector that you want to uninstall.
- 4 Click **Yes** to confirm the deletion.
- 5 Click **Continue**.