

## SAP NetWeaver<sup>®</sup> Identity Management Identity Center

## Implementation Guide

- Self-service password reset



Version 7.2 Rev 7

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## Preface

## The product

SAP NetWeaver Identity Center is a high-end identity management solution, capable of handling a large amount of repositories containing an unlimited amount of information. The Identity Center offers a robust, flexible and scalable high-availability solution for workflow, provisioning, data synchronization and joining for a large number of data repositories. The Identity Center provides a framework for a number of jobs.

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## The reader

This manual is written for people who are to configure and use self-service password reset.

## Prerequisites

To get the most benefit from this manual, you should have the following knowledge:

- General knowledge about the SAP NetWeaver Identity Center and job definitions for instance as described in SAP NetWeaver Identity Management Identity Center Initial Configuration and SAP NetWeaver Identity Management Identity Center Tutorial Basic synchronization.
- General knowledge about provisioning and task definitions as described in the SAP NetWeaver Identity Management Identity Center Tutorial Provisioning.

The following software is required:

- For setting of the productive password in UME one of the following SAP NetWeaver versions is required:
  - SAP NetWeaver 2004 SP 23+ (means SP 23 and following)
  - SAP NetWeaver 7.0 SP 18+
  - SAP NetWeaver 7.0 Enhancement Package (EHP) 1 SP 2+
  - SAP NetWeaver 7.0 EHP 2 SP 0+
  - SAP NetWeaver Composition Environment (CE) 7.1 SP 7+
  - SAP NetWeaver CE 7.1 EHP 1 SP 1+
  - SAP NetWeaver CE 7.2 SP 0+
  - SAP NetWeaver 7.3 SP 0+
  - SAP NetWeaver 7.3 EHP 1 SP 0+
  - SAP NetWeaver 7.4 SP 0+
- SAP NetWeaver Identity Management Identity Center version 7.2 (or higher), correctly installed and licensed.
- An Identity Center where at least one dispatcher has been configured and is running.
- An identity store with at least one user (in addition to admin user).

• An Identity Management User Interface configured for this Identity Center and identity store according to SAP NetWeaver Identity Management Identity Center Installing and configuring the Identity Management User Interface.

## The manual

This tutorial consists of six sections describing how you create, configure and run the password reset task. The last section describes how you can create a task used to set the new password for the users and reset the number of failed password reset attempts.

This tutorial is not a substitution for training.

Person names used in this tutorial are fictional.

## **Related documents**

You can find useful information in the following documents:

- SAP NetWeaver Identity Management Identity Center Initial Configuration.
- SAP NetWeaver Identity Management Identity Center Tutorial Basic synchronization.
- SAP NetWeaver Identity Management Identity Center Tutorial Provisioning.
- SAP NetWeaver Identity Management Identity Center Installing and configuring the Identity Management User Interface.
- Logon screen customization for releases SAP NetWeaver 2004, SAP NetWeaver 7.0, SAP NetWeaver 7.0 EHP 1 and SAP NetWeaver 7.0 EHP 2, see Customizing the Logon Screens on
   <a href="http://help.sap.com/saphelp\_nw70ehp2/helpdata/en/23/c0e240beb0702ae10000000a155106/frameset.htm">http://help.sap.com/saphelp\_nw70ehp2/helpdata/en/23/c0e240beb0702ae10000000a155106/frameset.htm</a>.
- Logon screen customization for releases SAP NetWeaver CE 7.1, SAP NetWeaver CE 7.1 EHP 1, SAP NetWeaver CE 7.2, SAP NetWeaver 7.3 SAP NetWeaver 7.3 EHP 1 and SAP NetWeaver 7.4, see Developing a Custom Logon Screen on <u>http://help.sap.com/saphelp\_nw73/helpdata/en/23/c0e240beb0702ae10000000a155106/cont\_ ent.htm</u>.
- Logon Help for SAP NetWeaver Identity Management Implementation Guide available on Help Portal: <u>http://help.sap.com/saphelp\_nwidmic\_72/helpdata/en/0d/71c8bb0f744c308c7b5e91657ddcb</u> f/frameset.htm.

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## Introduction

This document describes how to configure and implement self-service password reset in SAP NetWeaver Identity Management 7.2 or higher.

In addition to the solution described in this document, as of SAP NetWeaver Identity Management 7.2 SP8 you can also use the Logon Help to change passwords. For information about this additional solution, see *Logon Help for SAP NetWeaver Identity Management Implementation Guide* available on Help Portal: http://help.sap.com/saphelp\_nwidmic\_72/helpdata/en/0d/71c8bb0f744c308c7b5e91657ddcbf/frameset.ht m.

The password reset process consists of the following three (3) steps:

- Identify: In this step, the user will be asked for the unique identifier, the default is *MSKEYVALUE*. Other options are to ask for another unique attribute (e.g. email address) in addition to or instead of the *MSKEYVALUE*. This is configured on the password reset task in the Identity Center (see section *Setting the password reset parameters* on page 18).
- Verify identity (authenticate): The user answers some question(s) only he/she knows the answer to. It will be possible to define any number of questions on a system, using the attributes on the format *MX\_AUTHQ\_nnn* (e.g. *MX\_AUTHQ\_001, MX\_AUTHQ\_002* etc). Five (5) attributes are defined by default, but any implementation may add additional attributes following the naming syntax. A task needs to be created where the user is required to answer a minimum number of these questions, i.e. you can define how many of the defined questions the user has to answer (see section *Setting the password reset parameters* on page 18 and *Section 3: Creating a self-service task for editing of authentication information* on page 22). You can also define a maximum number of login attempts in the identity store configuration.

#### Note:

Every failed attempt of password reset is logged, and a task is executed. For security reasons the user is not told why a password reset attempt failed, if too many attempts are made to reset the password or if the provided unique identifier does not exist, as this would provide a potential attacker with additional information. Instead, the password reset will proceed but random authentication questions may be displayed to the user (including the ones that user has not defined the answers for) and the password reset will fail regardless of the input information being correct or not.

• Set password: A new password is provided to the user, either as input by the user as will be shown in this document (stored in the attribute *MX\_PASSWORD*) or system generated. In either case, the password is validated towards the UME (User Management Engine) password policy, and a task is started. This task can then perform any desired operations, e.g. sending the new password to the user via e-mail or SMS, provision the password etc.

#### Note:

If the password is not accepted upon the validation towards the UME password policy, then nothing is written to the database (or the UME) and the user may try to set the password again.

The questions used for password reset authentication are system specific, i.e. all users in the same identity store will have the same questions available and in the same language (the authentication questions are available in several languages). By default, the following questions are given:

- What is your favorite color?
- What make of car do you drive?
- What is your pet's name?

- What is your mother's maiden name?
- What street did you grow up on?

The questions may be changed by altering the display name of attributes *MX\_AUTHQ\_001* to *MX\_AUTHQ\_005* (see *Section 5: Changing the authentication questions* on page 33).

#### Note:

This change of questions should be done during the implementation of the self-service password reset, and it is especially important that this is done before the task allowing the users to enter answers to the authentication questions is available for the users. Changing the questions after the users have provided their answers will cause the answers not to fit well any more.

## **Preparations**

Before configuring the password reset tasks, the following needs to be in place:

- At least one user in the identity store (in addition to the admin user).
- A UME role with action idm\_anonymous assigned to group "Anonymous Users" in the User Management Engine (in addition to roles described in the document SAP NetWeaver Identity Management Identity Center Installing and configuring the Identity Management User Interface).

To create the UME role "idm.anonymous", do the following:

- 1. Enter http://<host>:<port>/index.html in your browser. This will open the SAP J2EE Engine Start Page.
- 2. Select "User Management", which starts the user management administration console for the User Management Engine (UME).
- 3. Provide your UME credentials and choose "Log on".

4. Change search criteria to "Role", and then choose "Create Role":

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In the "General Information" tab fill in the following:

#### **Unique Name**

Give the role a describing name (here "idm.anonymous").

#### Description

Short description of the role can be added as well. This is not a mandatory field.

5. Select the "Assigned Actions" tab.

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In the left pane (Available Actions):

Type " idm\*" in the field "Get" and choose "Go". This will list the actions/access rights it is possible to link to the role.

6. Select the "idm\_anonymous" action and choose "Add".

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The "idm\_anonymous" action is now assigned to the role and this will be shown in the right pane (Assigned Actions).

7. Select the "Assigned Groups" tab:

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In the "Available Groups" pane, choose "Go" to list all available groups.

8. Select the "Anonymous Users" group and choose "Add".

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The "Anonymous Users" group is now given the role and this will be shown in the right pane (Assigned Groups).

9. Choose "Save" to confirm and create the new role, which will give access to the password reset to every anonymous user. The just created role will be displayed in the list of the roles available:

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Row 1 of 1			
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## Section overview

The tutorial consists of the following sections:

Section 1: Creating the tasks	This section describes how you create and configure the password reset task and the password reset failed task.
Section 2: Configuring the identity store	Configuring of the identity store is described in this section, i.e. adding the reference to the tasks created in the previous section, and defining the password reset parameters.
Section 3: Creating a self-service task for editing of authentication information	Five questions are by default used to authenticate user. Answers to these questions need to be defined by the user, which can be done by user through a self-service task defined in this section.
Section 4: Self-service password reset	This section describes the use of the self-service password reset functionality.
Section 5: Changing the authentication questions	In this section, how to alter the default authentication questions is described.
Section 6: Resetting the number of failed password reset attempts	This section describes a task used for setting of the password for the user, and resetting of the failed password reset attempt counter.

## Section 1: Creating the tasks

The password reset task is used to generate a new password for a user who has forgotten his/her password. The task is then added to the identity store configuration so that it will be available for the anonymous users. The password reset failed task, which is run every time the password reset process fails, also needs to be created and added to the identity store configuration.

## Creating the folder for the tasks

Before creating the tasks, we are going to create a folder for the tasks in the identity store:

1. Select the identity store node in the console tree and choose **New/Folder...** from the context menu to create the folder (name the folder e.g. "Password reset tasks".

🕼 Identity Center - [Console Root\SAP NetWeaver Id	dentity Management\MXMC\Identity stores\Enterprise People\Password reset tasks]	
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	i 🗳 🖬 D 🕨 🖷 🛷 🗐 🐻	
Console Root	General       Contact information         Folder ID/Name:       116/Password reset tasks         Display name:          Description:          Show folder in User Interface         Folder status          Active       Activation date:         2010/11/30 08:55:59 AM	
<u> </u>	Apply	Help

Deselect "Show folder in User Interface".

2. Choose "Apply".

## Creating the password reset task

To create the password reset task, do the following:

1. Select the folder you just created and choose **New/Guided task/Password reset** from the context menu.

🕞 Identity Center - [Console Root\SAP NetWeaver I	dentity Management\MXMC\Io	dentity stores\Enterprise People\Password reset tas	ks\Password reset]
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← → 🗈 🖬 🐰 🛍 💼 🗙 🙆 😫 🖬 🕷	: 🗳 🖬 🗅 🕨 🔳 🧇 🗍	<b>6</b>	
Console Root SAP NetWeaver Identity Management Standalone jobs MMANC Left MMA	Options Result handling Par ✓ Enabled Task ID/Name: General Group type: Repository: Execute task on initialize: Delay before start: Condition Skip task if audit flag is set:	ameters Access control Presentation Documentation	Password reset

Modify the name of the task in the console tree (e.g. "Password reset").

2. Select the "Access control" tab.

🕼 Identity Center - [Console Root\SAP NetWeaver I	Identity Managem	ent\MXMC\Identi	ty stores\Enterprise People\Password reset tasks\P	assword reset	
File Action View Favorites Tools Window	Help				_ & ×
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Console Root	Options Result	handling Attributes	Access control Presentation Documentation	Pa	ssword reset
😥 🧏 Management	Access type	Value On behalf o	of Value		Add
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<ul> <li>B Identity store schema</li> <li>C Identity store metadata</li> </ul>					Remove
UME tasks     Uver Interface tasks     Over Interface tasks     Ov					
				Apply	Help

3. Choose "Add...".

Access control			x
Allow access for:	Anonymous		<u>0</u> K
D store:	Enterprise People		<u>C</u> ancel
Name:		Check <u>n</u> ame	Help
Referral attribute:		T	Build SQL query
Filter:			-
			-
On behalf of:	Everybody	<b>*</b>	
Name:		Check name	Build <u>S</u> QL query
Filter:			*
	1		<u></u>

Select "Anonymous" in the "Allow access for" field and make sure that the correct identity store is selected in the "ID store" field.

4. Choose "OK".

File Action     Weiler     Add     Options     Result handling     Attributes     Access control     Presentation     Documentation     Password reset     Dial     Dial     Add     Modify     Password reset     Dial     Dial </th <th colspan="7">🕼 Identity Center - [Console Root\SAP NetWeaver Identity Management\MXMC\Identity stores\Enterprise People\Password reset tasks\Password reset]</th>	🕼 Identity Center - [Console Root\SAP NetWeaver Identity Management\MXMC\Identity stores\Enterprise People\Password reset tasks\Password reset]						
Console Root   SAP NetWeaver Identity Management   Management   Management   Management   Mathbute types   Mathbute types   Identity store schema   Mathbute types   Identity store netadata   Mathbute types   Identity store schema   Job folder   Job folder   Job folder	🔀 File Action View Favorites Tools Window Help						_ & ×
Console Root SAP NetWeaver Identity Management Manage	← → 🖻 📧 😤 🖬 🎘 🖨 🕨 🕨 🧶	] 🖪					
User Interface tasks Provisioning folder Password reset Password reset Password reset Dob folder DuME-Jobs DuME-Jobs Dument dument dum	Console Root  SAP NetWeaver Identity Management  Minute Standalone jobs  Minu	tions Result h	handling htrol: Value	Attributes	Access control Presentation Documentation		Password reset Add Modify Remove
	One case						

5. Choose "Apply".

The password reset task is now defined.

## Creating the password reset failed task

We have created the task that is run when the user requests a password reset. Next, we want to create the password reset failed task – the task that is run every time the password reset process fails. This task can be configured to do several things upon the password reset error – in this document the task creates an ASCII file and logs the error information. To create this task, do the following:

 Select the "Password reset tasks" folder in the console tree and choose New/Action task/Empty job from the context menu or create the task by choosing an ordered or unordered task group from the context menu. (As of SAP NetWeaver Identity Management 7.2 SP9, you can create the task by choosing only ordered task group.)

Console Root Standalone jobs MAXMC Management Identity stores Identity store schema Identity store metadata UME tasks Identity store schema Identity store metadata Identity store metadata Identity store metadata Identity store schema Identity store schema Identity store metadata Identity store schema Identity store metadata Identity store schema Identity store schema Identity store metadata Identity store metadata Identity store schema Identity schema Id
No of retries: 1' Retry delay: 30 Seconds

Modify the name of the task (e.g. "Password reset failed") in the console tree.

2. Select the job:

🕼 Identity Center - [Console Root\SAP NetWeaver	$Identity\ Management \ MXMC \ Identity\ stores \ Enterprise\ People \ Password\ reset\ tasks \ Password\ reset\ tasks\ reset\ tasks\ Password\ reset\ tasks\ reset\ tasks\ reset\ tasks\ reset\ reset\ reset\ tasks\ reset\ rest\ reset\ reset\ reset\ re$	faile
🔀 File Action View Favorites Tools Window	Help	_ 8 ×
	ا ا ا ا ا ا ا ا ا ا ا ا ا ا ا ا ا ا ا	
Console Root	Options       Logging       State       Documentation         ✓       Enabled       Test job         Job ID/Name:       3447/Password reset failed       Test job         Runtime engine       Java       ✓       Right trim source attri         Script language:       JScript       ✓       Scheduling         Schedule rule:       Provision       ✓       Edit         Scheduled time:       2010/11/30 03:25:56 PM       Run now       Stop now         Dispatchers       Run by dispatchers:       ✓       dispatcher1	butes
		Help

Modify the name of the job in the console tree.

Modify the job properties:

#### Enabled

Select this check box to enable the job to be run by a dispatcher.

#### Run by dispatchers

Select a dispatcher that should be responsible for running this job.

- 3. Choose "Apply".
- 4. Now select the job in the console tree and choose New/To ASCII file to create a pass.

🔽 Identity Center - [Console Root\SAP NetWeaver Identit	y Management\MXMC\Identity stores\Enterprise Peo	ple\Password reset tasks\Password reset failed\Passwor 💶 🗵
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← →   🖻 🔟 😫 💷 📜 🖬 🕨 🕨 💭	] 🔽	
Console Root  SAP NetWeaver Identity Management  Manag	Source Destination Delta Documentation ASCII output data File Name: C:\usr\sap\\dM\\dentity Center\Pwd Reset output file  Split line string: Insert template Value Password reset failed! %\$ddm.datetime8601%	ResetFailed.txt         □ Generate CSV file         □ Include CSV header         □ Add quotes         Default value:
1		

15

In the "Destination" tab modify the following properties:

#### File name

Specify the location and the name of the file where the information about the failed password reset process will be available (e.g. *C:\usr\sap\IdM\Identity Center\PwdResetFailed.txt*).

#### Value in the definitions pane

Type any value to be written to the ASCII file in the "Value" field in the definitions pane, e.g.:

Password reset failed! %\$ddm.datetime8601% for user %MSKEYVALUE%

Use the context menu to insert the system parameter *ddm.datetime8601* and the source attribute *MSKEYVALUE*.

5. Choose "Apply".

### Section 2: Configuring the password reset parameters

The password reset task must be configured to call the task *Password reset failed*. Parameters, like defining a minimum number of validation answers or a number of authentication questions that should be displayed for the user, need to be defined also. The password reset task must also be referenced from the identity store. This section shows how to configure the parameters on the *Password reset* task and on the identity store.

## Adding a reference to password reset failed task

To configure the Password reset task to call the task Password reset failed, do the following:

1. Select the "Password reset" task in the console tree and choose the "Parameters" tab.

Choose "..." to the right of the "Password reset failed task" field to open the "Select task" dialog box.

<u></u> К
672 J
 Cancel
Help

Navigate to the "Password reset failed" task we just created and choose "OK".

2. Choose "Apply".

The task is now added:

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Image: Console Root	<u> F</u> ile <u>A</u> ction <u>V</u> iew Fav <u>o</u> rites <u>T</u> ools <u>W</u> indow !	<u>H</u> elp	_ 8 ×
Console Root SAP NetWeaver Identity Management Standalone jobs MMMC MMC MMC Magement		🗢 🗏 🖪	
Image: Password reset   Image: Password reset   Image: Password reset failed	Console Root Console Root SAP NetWeaver Identity Management Standalone jobs MMMC MMMC MMMC Might Stores Management Might Attribute types Consoler Might Attribute types Might Attribute ty	Options       Result handling       Parameters       Access control       Presentation       Documentation       Pass         Entry type:      None       Image: Control of C	word reset

### Setting the password reset parameters

To set other parameters in the password reset task, do the following:

1. Select the "Password reset" task in the console tree and choose the "Parameters" tab:

Identity Center       [Console Root\SAP NetWeaver Identity Center                 File             Action       View       Favorites       Iools       Window       Hell                 Console Root               Console Root               Console Root <td< th=""><th>Initity Management MXMC (dentity stores) Enterprise  Deptions Result handling Parameters Access control  Entry type: None  Account validation Min. no of validation answers: Identify Description: Identification attribute: MSKEYVALUE Alternative identification attr: MSKEYVALUE Verify identity Description: No of questions to show: No of ausers required: Maximum no of attempts: 3</th><th>Reople\Password reset tasks\Password reset         Presentation       Documentation         Password      </th><th>vord reset</th></td<>	Initity Management MXMC (dentity stores) Enterprise  Deptions Result handling Parameters Access control  Entry type: None  Account validation Min. no of validation answers: Identify Description: Identification attribute: MSKEYVALUE Alternative identification attr: MSKEYVALUE Verify identity Description: No of questions to show: No of ausers required: Maximum no of attempts: 3	Reople\Password reset tasks\Password reset         Presentation       Documentation         Password	vord reset
<u> </u>		Apply	Help

Configure the following parameters:

#### Entry type

Select the entry type for this task, usually MX\_PERSON. The task will only be available for entries of this entry type.

#### Min. no of validation answers

In a task showing the authentication questions (see *Section 3: Creating a self-service task for editing of authentication information* on page 22), the user may be required to define an answer for a minimum number of these questions. In the field "Minimum number of validation answers" you define how many of the defined questions the user has to answer. This number should be the same or higher than the number defined in the "Number of answers required" field.

#### **Description (Identity)**

This is description for the step one of the password reset guided task: "Enter User Identification".

#### Identification attribute/alternative identification attribute

In the process of identifying a user he/she will be asked for the unique identifier. This identifier is *MSKEYVALUE* by default. In addition, there are two other options you can choose to configure: 1) the identifier is other unique attribute (e.g. email address) instead of the *MSKEYVALUE*, and 2) the identifier is other unique attribute in addition to the *MSKEYVALUE*.

#### **Description (Verify identity)**

This is description for the step two of the password reset guided task: "Answer the Following Question(s)".

#### No of questions to show

This number will define how many questions there will be displayed for the user during the authentication process. The number should be the same or higher than the number defined in the "Number of answers required" field, usually the same since there is no need of displaying more questions than the number required answering on. The questions are randomly selected from the attributes where the user has provided an answer.

#### No of answers required

The parameter will define how many of the defined authentication questions the user has to answer in order to identify himself/herself. Number defined in this field should be the same or lower than the number defined in the "Minimum number of validation answers" field.

#### Maximum no of attempts

Here you can define a maximum number of attempts the user has before the authentication and the password reset process fails. There are three (3) attempts by default.

#### Description (Set password)

This is description for the third step of the password reset guided task: "Choose 'Finish' to set the password".

#### **Password creation method**

The password creation method can be defined here. There are two methods available – a method where the password is automatically generated (by default) and a method where the user is asked to enter the new password.

#### Note:

Here, in this document, the method "Ask the user" is used. When using the method where the password is generated automatically, the delivery information should be specified – a task which sends the new password to the user by SMS or e-mail needs to be created. In an organization using password provisioning, the users will have the same password both for the Identity Management User Interface and the e-mail system. In this case, it will be no point in sending the password to the user's e-mail address, as the user will not be able to access the e-mail system.

#### Save the password to UME

Enable this option if you wish to save the password to UME. Setting the productive password in UME is possible with one of the following SAP NetWeaver versions:

- SAP NetWeaver 2004 SP 23+ (means SP 23 and following)
- SAP NetWeaver 7.0 SP 18+
- SAP NetWeaver 7.0 Enhancement Package (EHP) 1 SP 2+
- SAP NetWeaver 7.0 EHP 2 SP 0+
- SAP NetWeaver Composition Environment (CE) 7.1 SP 7+
- SAP NetWeaver CE 7.1 EHP 1 SP 1+
- SAP NetWeaver CE 7.2 SP 0+
- SAP NetWeaver 7.3 SP 0+
- SAP NetWeaver 7.3 EHP 1 SP 0+
- SAP NetWeaver 7.4 SP 0+

The option is enabled by default. The only use case where this option should be disabled is when the user does not have an account in UME, i.e. does not have access to Identity Management User Interface.

What password policy is selected when creating a password depends on whether this option is set or not. When the option is enabled, then the UME password policy is applied and not the Identity Management policy (even if defined). When the option is disabled, the defined Identity Management policy applies. See page 21 for more about the Identity Management policy/validation.

#### Confirmation message

This is the confirmation message that appears when the task is executed: "Password Set".

2. After configuring the parameters choose "Apply" to confirm.

The configuration may look something like this:

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Image: Console Root       Image: Console Root<	🔀 Eile Action View Favorites Tools Window I	Help	_ 8 ×
Console Root       Options       Result handling       Parameters       Access control       Presentation       Documentation       Password reset         Image: Starbalane jobs       Management       Image: Starbalane jobs		۹ 🗉 🖻	
Арру Нер	Console Root Console Root SAP NetWeaver Identity Management Standalone jobs MMMC MMMC MMMC Might Might Stores Console Root Might Standalone jobs Might Stores Might Stores Might Stores Console Root Might Stores Might Stores M	Options       Result handling       Parameters       Access control       Presentation       Documentation       Password         Entry type:       MX_PERSON       Image: Control of Control	iii IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII

Now the implementing and configuring of the self-service password reset is completed. The next step is to create a self-service user task where the user can define the answers to the authentication questions.

## Adding a reference to password reset task on identity store

The identity store must be configured to reference the task Password reset. Do the following:

- 1. Select the identity store in the console tree and select the "Password policy" tab.
- 2. Define the password reset task in the "Password reset task" field. Choose "..." to navigate to the task.

🔂 Elle Action View Favgrites Iools Window Help
Console Root         ● Sandalone jobs         ● Management         ● Athobit ty pos         ● Athobit ty pos

3. Choose "Apply".

Here you can also define the Identity Management password policy, under section "Validation". The following can be defined:

- Whether the password should contain mixed case characters or not.
- Whether the password should contain letters and numbers.
- Enabling/disabling the use of password dictionary.
- Whether the previous passwords should be considered when creating a new one or not. And if yes, how many of the previous passwords should be remembered by the system.
- The minimum and the maximum length of the password.
- Regular expressions (regex).

#### Note:

The event handling fields "Change password" and "Disable account" are not in use and will be removed from the Identity Center Management Console.

# Section 3: Creating a self-service task for editing of authentication information

Now that the self-service password reset is implemented and configured the user needs to define the answers to the authentication questions, and to be able to do that a self-service task for the user is needed. In this document a task *Edit authentication questions* is created for that purpose, but this can typically be done in a user profile task – i.e. if you have defined a self-service task where the users can edit their user profile, add the attributes  $MX\_AUTHQ\_001$  to  $MX\_AUTHQ\_005$  to this task.

## Creating the self-service task

To create the self-service user task, do the following:

1. Select the "Password reset tasks" folder in the console tree and choose **New/Unordered task group** from the context menu. (As of SAP NetWeaver Identity Management 7.2 SP9, you can choose only ordered task group.)

🕼 Identity Center - [Console Root\SAP NetWeaver	Identity Management\MXMC\I	lentity stores\Enterprise People\Password reset t	asks\Ed	it authentication q 💶 🗖 🗙
🔀 Eile Action <u>V</u> iew Fav <u>o</u> rites <u>T</u> ools <u>W</u> indow	Help			_ & ×
← → 🗈 💀 😫 💀 🎘 🖬 🕨 🕨	🔷 🔲 🖪			
Console Root	Options Result handling Attri I Enabled Task ID/Name: General Group type: Repository: Execute task on initialize: Delay before start: Condition Skip task if audit flag is set:	butes       Access control       Presentation       Documentation         1847/Edit authentication questions         Unordered group         • None •-         • None •-         • None •-         • Wait for event tasks		Unordered task group         Ultask         Public task.         Use inactive entries         Use context variables            Apply         Help

Modify the name of the task in the console tree (e.g. "Edit authentication questions"). Select the "UI task" option.

2. Select the "Attributes" tab:

Identity Center - [Console Root\SAP NetWeaver I	dentity Management\MXMC\Identity stores\Er	nterprise Peo	ple\Password	reset tasks	\Edit authenticatio	in 💶 🗖
File Action View Favorites Tools Window H	Help					_ 8
🖻 📧   😤 💷 🛍 🗳 🖬 🗅 🕨 🔳 🥴	🖻 🗉 🚾					
Console Root → Ø SAP NetWeaver Identity Management	Options Result handling Attributes Access cont	rol   Presentati	on Document	ation ]	Unordered Report task	task gro
Management     June 1 Identity stores	Entry type: JMX_PERSUN Task attributes:				This task creates a i	new entry
Attribute types	Attribute	List	Mandatory	Read only	Default value / 🔺	Un
🖃 🖨 Enterprise People	DISPLAYNAME	<b>~</b>		V		
	MSKEYVALUE	✓	~	✓		Down
🕀 🌺 Identity store metadata	MX_AUTHQ_001	✓				
	MX_AUTHQ_002	<b>v</b>				
E User Interface tasks	MX_AUTHQ_003	~				
Provisioning folder  Password reset tasks  Password reset	MX_AUTHQ_004	~				
	MX_AUTHQ_005	✓				
	DESCRIPTION					
	MX_ACADEMIC_TITLE_1					
Edit authentication questions	MX_ACADEMIC_TITLE_2					
Job folder	MX_ACCESSIBILITYLEVEL					
	MX_ACCOUNTING_NUMBER					
	MX_ADDRESS_CITY					
	MX_ADDRESS_COUNTRY					
	MX_ADDRESS_POBOX					
	WY ADDRESS DODAY DOSTAL CODE					
					Apply	Help

Choose "..." and select "MX\_PERSON" in the "Entry type" field, select the attributes *MX\_AUTHQ\_001* to *MX\_AUTHQ\_005* and configure the attributes as shown above.

- 3. Choose "Apply".
- 4. Select the "Access control" tab and choose "Add...".

Access control	the second s	x
Allow access for:	Logged-in user or identity store entry	<u></u> K
☐ ID store:	Enterprise People	<u>C</u> ancel
Name:	Check name	Help
Referral attribute:		Build SQL query
Filter		×
On behalf of:	User or identity store entry	
Name:	Check name	Build <u>S</u> QL query
Filter.		<u>A</u>
		<b>*</b>

Modify the following properties:

#### Allow access for

Select "Logged-in user or identity store entry".

#### **ID store** Select the correct identity store. In this example "Enterprise People" is used.

#### Name

Leaving this field empty will make the task accessible to everyone. Name is entered when restricting the access to the task (e.g. enter Administrator name to give access to this task only to the "Administrator" user).

#### On behalf of

There are two ways of creating a self service task. You either select "User or identity store entity" or "Relation - Self". Both ways are legitimate.

5. Choose "OK" and then "Apply".

The access definition is added to the task:

🕼 Identity Center - [Console Root\SAP NetWeaver Ide	entity Managemei	nt\MXMC\	Identity stor	es\Enterprise People\Password reset tasks	s\Edit authenti	cation q 📃 🗆 🗙
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← →   🖻 🔃 😫 💷 🏣 🗳 📕 🗅 🕨 🖷 🥏						
Console Root	Options Result h	andling A	tributes Acce	ss control Presentation Documentation	Unord	ered task group
Hanagement	Access type	Value	On behalf of	Value	<b></b>	Add
Attribute types	Logged-in user	All users	User	All users (self service)		Modify
<ul> <li>Jentity store schema</li> <li>Jentity store metadata</li> <li>Julia takis</li> <li>User Interface tasks</li> <li>Provisioning folder</li> <li>Password reset tasks</li> <li>Password reset failed</li> <li>Ter-Password reset failed</li> <li>Job folder</li> <li>UME-Jobs</li> </ul>						Remove
					Apply	Help

## **Editing the authentication information**

For user to edit the authentication information, i.e. define the answers to the authentication questions, he/she needs to access the self-service user task *Edit authentication questions*. Do the following:

- 1. Enter http://<host>:<port>/idm in your browser to access the User Interface and provide the credentials in the log-in window.
- 2. Choose "Log on".

🚰 Idm - Microsoft Internet Explorer	
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	<b>_</b>
SAP NetWeaver	
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Welcome 2020	Log On
Self Services	
Available Self Service Tasks:	
Edit authentication questions	
	Local intranet

You are now logged on in the User Interface. The image above shows the logged-in user with access to the "Self Services" tab and the self-service task "Edit authentication questions" created in the previous section.

3. Select the "Edit authentication questions" task:

Edit authentication questions -	Microsoft Internet Explorer	
<u>File Edit View Favorites Tools</u>	: <u>H</u> elp	
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Address 🙋 http://	/webdynpro/dispatcher/sap.com/tc~idm~wd~workflow/EditTask?TaskId=16	💽 🛃 Go 🛛 Links 🌺
		· · · · · · · · · · · · · · · · · · ·
Edit authenticat	ion questions	Help
Unique ID 3030 Display Name 303	0	
<b>.</b>		
Save Modify Refresh		
Care moury [render]		
Display Name: *	3030	
Unique ID: *	3030	
What is your favorite color?:	••••	
What make of car do you drive?:	•••	
What is your pet's name?:	•••••	
What is your mother's maiden name?:	••••	
What street did you grow up on?:	•••••	
		I and internet
E Done		

Enter the answers to the displayed authentication questions.

4. Choose "Save" and then close the task.

The answers only known by the user are now defined for the authentication questions.

#### Note:

If you try to save the information after entering the answers to fewer questions than requested, the task will fail and an error message will appear as displayed in the picture below.

Edit authentication questions -	Windows Internet Explorer			
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<u>File E</u> dit <u>V</u> iew F <u>a</u> vorites <u>T</u> oo	ls <u>H</u> elp			
👉 💠 📨 Edit authentication qu	estions		🏠 • 🗟 • 🖶 • 🗄	Page $\star$ 🕥 Tools $\star$
				A
Edit authenticat	tion questions			Help
Unique ID 3030 Display Name N	ame 3030			
• Yes and the second se				
Save Modify Defreeb	ation question(s).			
Save mouny Renesi				
Display Name: *	3030			
Unique ID: *	3030			
What is your favorite color?:	•••			
What make of car do you drive?:	••••			
What is your pet's name?:	••••			
What is your mother's maiden name?				
What street did you grow up on?:				
			Local intranet	100% 🔻

## Section 4: Self-service password reset

The password reset process is now defined and the self-service password reset functionality is ready for use. In this section, we will test the self-service password reset functionality and their tasks *Password reset* and *Password reset failed*.

To be able to access the password reset task, make sure to be logged out of the identity store. Make also sure that all browser windows are closed.

#### Note:

In what language the self-service password reset is available is determined in the following way:

- The language is determined by the language preferences specified by the browser settings ("accept-language" HTTP header) if existing.
- Otherwise, the language is determined by the language preferences specified in the application properties if existing.
- Otherwise, the language is determined by the language preferences specified in the Web Dynpro system properties if existing.
- Otherwise, the language is determined by the language preferences of the VM.

## Providing a new password

To access the self-service password reset functionality and reset the password, do the following:

1. Open your browser and enter http://<host>:<port>/idm/pwdreset to access the password reset self-service task.

#### Note:

You might wish to incorporate the password reset link to the logon screens (welcome pages) of application servers accessed by users (assuming these are serviced by Identity Management).

For example, if your users access an SAP NetWeaver Application Server Java, then you can customize the logon screen for that host to access the password reset URL of SAP NetWeaver Identity Management. For more information, see the SAP Help Portal documentation relevant for your AS Java release:

- For releases SAP NetWeaver 2004, SAP NetWeaver 7.0, SAP NetWeaver 7.0 EHP 1 and SAP NetWeaver 7.0 EHP 2, see <u>Customizing the Logon Screens</u>.
- For SAP NetWeaver CE 7.1, SAP NetWeaver CE 7.1 EHP 1, SAP NetWeaver CE 7.2, SAP NetWeaver 7.3, SAP NetWeaver 7.3 EHP 1 and SAP NetWeaver 7.4, see <u>Developing a Custom Logon Screen</u>.

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Address 🕘 http://	💌 🛃 Go 🛛 Links 🌺
Previous       Next         1       2       3         Identify       Verify Identity       Set Password         Enter User Identification:       Unique ID: 3030	Help
j 🔊	Local intranet

Enter the unique ID (here MSKEYVALUE as previously defined).

2. Choose "Next".

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Address 🗃 http://	💌 🛃 Go 🛛 Links 🎇
Password reset	Help
Previous Next	
1     2     3       Identify     Verify Identity     Set Password   Answer the Following Question(s):	
What is your pet's name?:	

Enter the answers to the authentication questions.

3. Choose "Next".

If the authentication succeeds, it will be possible to set the new password. In this document the method "Ask the user" is used for password creation, giving the user the possibility of defining its own password:

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Eile Edit View Favorites Iools Help		-
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Address 🙆 http://	• 🔁 Go	Links »
Password reset       Previous     Finish       1     2       3       Identify     Verify Identity       Set Password	He	4
Choose 'Finish' to set the password: Password: * Confirm Password: *		
J Done Done	cal intranet	

Enter the new password and confirm it.

4. Choose "Finish" to set the password.

🚰 PwdReset - Microsoft Internet Explorer	
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Address 🕘 http://	💌 🛃 Go 🛛 Links 🌺
i Password Set	
Password reset	Help
Previous Finish	
Choose 'Finish' to set the password:	
Password: *	
Confirm Password: *	
Done	Local intranet

The password is now reset.

## Testing the task "Password reset failed"

To test and verify that the "Password reset failed" task works, do the following:

1. Navigate to and select the "Password reset failed" job log.



Select the auto-refresh feature in the job log and set it to 1 second.

2. Open your browser and enter http://<host>:<port>/idm/pwdreset to access the password reset self-service task, enter the unique ID and then enter wrong credentials (i.e. the wrong answers to the authentication questions) to cause authentication error:

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Address 🕘 http://	Links »
Authentication failed	
Password reset	dp
Previous Next	
Enter User Identification:	
🗃 Done	1.

3. Inspect the job log to verify that the job has run without errors:

Identity Center - [Console Root\SAP NetWeaver Id	entity Managen	nent\MXM	E\ <b>Ident</b>	ity stores:	\Enterprise	People	\Passwoi	rd res	et tasks\Password re	set failed\Password	r] _ 🗆 🗙
🔂 File Action View Favorites Tools Window H	elp										_B×
← →   🗈 🔃 😢 🖭 🍋 🖨 🗋 🗅 🕨 🔳 🍕	Þ 📃 🖪										
Console Root	- Log information										
E 🥔 SAP NetWeaver Identity Management	Jot		Sta	tus		Entries					
E MXMC	Date/Tir	ne s	Err	Warn T	otal Add	Mod	Noop	Del		Dispatcher	
	2010.12.01 10:	36:40 0	0	0	1 1	0	0	0	dispatcher1		
E J Identity stores											
Attribute types											
Enterprise People											
. Jentity store metadata											
🗄 📥 UME tasks											
User Interface tasks     Drevizinging folder											
Provisioning rolder     Password reset tasks											
Password reset											
in re- Password reset failed											
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Job log											
Scripts											
Job variables											
R Password reset failed											
Edit authentication questions											
🗄 🗀 Job folder											
	Show: G All	C Warnin	as and F	inore C l	Filore						Delete
	,	, warm	go and E		211010						
							🔽 Aut	orefres	h every 1 seconds	Refresh (1)	Help

4. Also check the defined location of the file to verify that the file was created with the expected input. The file may look something like this:



#### Note:

Every failed attempt of password reset is logged. For security reasons the user is not told why a password reset attempt failed, if too many attempts are made to reset the password or if the provided unique identifier does not exist, as this would provide a potential attacker with additional information. Instead, the password reset will proceed but random authentication questions may be displayed to the user (including the ones that user has not defined the answers for) and the password reset will fail regardless of the input information being correct or not.

#### Note:

Aborting the self-service password reset (e.g. by closing the browser window) while in Step 2 (Verify Identity) or Step 3 (Set Password) will count as a failed password reset attempt, but this type of failed password reset attempt will not be recognized by the "Password reset failed" task and thus not be logged to the specified file.

### Section 5: Changing the authentication questions

As previously mentioned, the authentication questions are by default:

- What is your favorite color? (*MX\_AUTHQ\_001*)
- What make of car do you drive? (*MX\_AUTHQ\_002*)
- What is your pet's name? (*MX\_AUTHQ\_003*)
- What is your mother's maiden name? (*MX\_AUTHQ\_004*)
- What street did you grow up on? (*MX\_AUTHQ\_005*)

The questions may be changed by changing the display name of attributes  $MX\_AUTHQ\_001$  to  $MX\_AUTHQ\_005$ . This change of questions should be done during the implementation of the self-service password reset, before the task allowing the users to enter answers to the authentication questions is available for the users. Changing the questions after the users have provided their answers will cause the answers not to fit well any more.

#### Note:

The display names of the authentication questions are determined by the language dependable text keys #MX\_MX\_AUTHQ\_001\_DN to #MX\_MX\_AUTHQ\_005\_DN available for a set of languages, and they are presented in language selected for your Identity Center. Changing the display name of the authentication question will replace this language dependable text key with your own text key with a value of your choice in a language of your choice.

To change the authentication questions, do the following:

1. Navigate to and select "Attributes" for your identity store in the console tree.

All attributes in your identity store will be listed.

2. Navigate to and view the properties of the attribute you wish to change, e.g. the attribute *MX\_AUTHQ\_001*, and select the "Presentation" tab:

ntity store attrib	tribute - MX_AUTHQ_001	ypes ]	
General Storage	Presentation Validation		
Web presentation	options		
Display name:	#MX_MX_AUTHQ_001_DN		
Tooltip text:			
Presentation:	SingleLine	•	
	Confirm input		
	🔽 Hide input		
	📕 Show search field		
Number of rows:	1		
Task defaults			
	Read only		
	Mandatory		
	OK	Cancel	Help

3. In the "Display name" field, alter the displayed text key to (make your own) e.g. "#MX\_MX\_AUTHQ\_001\_DN\_MY":

Event tasks A	tribute values External Entry types	
General Storage	Presentation Validation	
Web presentation	options	
Display name:	#MX_MX_AUTHQ_001_DN_MY	
Tooltip text:		
Presentation:	SingleLine	]
	Confirm input	
	🔽 Hide input	
	📕 Show search field	
Number of rows:	1	
Task defaults —		
	Fread only	
	J Mandatory	
		ncal Halo

4. Choose "..." to define the values for the new text key.

		1
Language	Text	
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BG		
LA		
LS		
	Mar in the Link former to integrate	
	was ist hit Lieblingsgetrank?	
EL	What is your favorite drink?	
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		-

Enter the authentication question changes for the languages of interest (in this example the changes are defined for English and German).

5. Choose "OK" to confirm and close the dialog box.

You have now changed the question from "What is your favorite color?" to "What is your favorite drink?". You can observe the change in the self-service task where the user defines the answers to the authentication questions:

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<u>File Edit View Favorites Tools</u>	s <u>H</u> elp	- 🥂
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Address 🛃 http://	/webdynpro/dispatcher/sap.com/tc~idm~wd~workflow/EditTask?TaskId=16 🔽 🔁 Go	Links »
Edit authenticat	ion questions	Help
Unique ID: 3030 Display Name: 303		
Save Modify Refresh		
Display Name: *	3030	
Unique ID: *	3030	
(What is your favorite drink?:)		
What make of car do you drive?:		
what is your pet's name?:		
What is your mother's maiden name?:	•••••	
What street did you grow up on?:	•••••	
		•
Done Done	Second seco	1.

The change is also visible in the password reset task:

🚈 PwdReset - Microsoft Internet Explorer	
Eile Edit View Favorites Iools Help	1
🚱 Back + 🕗 + 💌 😫 🏠 🔎 Search 🤺 Favorites 🚱 😒 + 🍃 🕍 - 🛄 🎉 🦓	
Address Athen Address A	🛨 🛃 Go 🛛 Links ≫
Password reset	Help
1     2     3       Identify     Verify Identity     Set Password   Answer the Following Question(s):  (What is your favorite drink?)	
What make of car do you drive?	
Done	Local intranet

# Section 6: Resetting the number of failed password reset attempts

If a user has exceeded the maximum number of failed password reset attempts, the number must be reset (cleared). A task can be created for setting of password for the user and resetting of the number of attempts. Do the following:

1. Select a folder visible from the User Interface (a folder where "Show folder in User Interface" is selected) – here folder "User Interface tasks".

🔽 Identity Center - [Console Root\SAP NetWeaver I	dentity Management\!	MXMC\Identity stores\Ente	rprise People\User Interface t	asks]		_ 🗆 🗙
🔀 Eile Action View Favorites Tools Window !	Help					_ 8 ×
	: 🚅 日 🗅 🕨 🔳	< 🗌 🖪				
Console Root SAP NetWeaver Identity Management Standalone jobs Management Dentity stores Console Root Management Dentity stores Console Root Dentity stores Dentity store Reople Dentity store netadata Dentity st	General Contact info Folder ID/Name: Display name: Description: Folder status C Active C Disabled	rmation ]  T/User Interface tasks  Sample folder for provisioning  Show folder in User Interface  Activation date:	ICE 2010/10/01 10:27:26 AM		Apply	Help

2. Choose **New/Unordered task group**. (As of SAP NetWeaver Identity Management 7.2 SP9, you can choose only ordered task group.)

🔽 Identity Center - [Console Root\SAP NetWeaver Identity M	lanagement\MXMC\Identity st	ores\Enterprise People\User Interface tasks\Set pass	word and reset attempts ] 💦 📃 🗙
🔀 Eile Action View Favorites Tools Window Help			_ B ×
	5		
Console Root  SAP NetWeaver Identity Management  Standalone jobs  MXMC  D MMMC  D Management  D Identity stores  D Identity store metadata  D UME tasks  D D UME tasks  D D Set password and reset attempts counter  D Provisioning folder  D D ME-Jobs	Options       Result handling       Attr         ✓       Enabled       Task ID/Name:         General       Group type:         Repository:       Execute task on initialize:         Delay before start:       Condition         Skip task if audit flag is set:	butes Access control Presentation Documentation	Image: Second

Modify the name of the task in the console tree.

- Select the "UI task" option.
- 3. Select the "Attributes" tab:

Identity Center - [Console Root\SAP NetWeaver Identity Ma File Action View Favorites Tools Window Help	nagement\MXMC\Identity stores\Enterprise Pe	ople\IdM UI:	\Set passwor	d and reset	attempts counter]	_ _ _ 3
Console Root	Options Result handling Attributes Access contr	ol   Presentati	on Document	ation )	Unordered to	ask grou
Management     Jentity stores	Entry type: MX_PERSON Task attributes:		<u>_</u>		This task creates a	new entry
Attribute types	Attribute	List	Mandatory	Read only	Default value / 🔺	Up
E Enterprise People	MSKEYVALUE	~	~			
Identity store schema	DISPLAYNAME		<b>v</b>	✓		Down
🗄 🌺 Identity store metadata	MX_PASSWORD	~				
	DESCRIPTION					
	MX_ACADEMIC_TITLE_1					
Edit user	MX_ACADEMIC_TITLE_2					
bet password and reset attempts counter	MX_ACCESSIBILITYLEVEL					
	MX_ACCOUNTING_NUMBER					
Et Password reset tasks	MX_ADDRESS_CITY					
庄 🧰 Job folder	MX_ADDRESS_COUNTRY					
🗄 💼 UME-Jobs	MX_ADDRESS_POBOX					
5.00	MX_ADDRESS_POBOX_POSTAL_CODE					
	MX_ADDRESS_POSTAL_CODE					
	MX_ADDRESS_REGION					
	MX ADDRESS STREETADDRESS				-	
					<b>_</b> _	
					Apply	Help

Select "MX\_PERSON" as entry type.

#### Note:

A dialog box will appear asking you to confirm your choice. Choose "Yes" to confirm and to close the dialog box.

Configure the attributes for the task as displayed above. Use "Up" (or "Down") to place the attributes in the exact same order as shown in the picture above.

- 4. Choose "Apply".
- 5. Select the "Access control" tab and choose "Add...".

Access control			×
Allow access for:	Logged-in user or identity store entry	•	<u></u> K
D store:	Enterprise People		<u>C</u> ancel
Name:	Administrator	[Check name]	Help
Referral attribute:		<u>*</u>	Build SQL query
Filter:			X
On behalf of:	Everybody	•	
Name:		Check name	Build <u>S</u> QL query
Filter:			X

Select "Logged-in user or identity store entry" in the "Allow access for" list.

Make sure that the correct identity store is selected.

Enter the name of the identity store user with the access to the "Manage" tab in the User Interface (here *Administrator*). You might use "Check name" to ensure that the name you entered is correct and exists. This allows the administrator user access to the task.

Select "Everybody" in the "On behalf of" list.

6. Choose "OK".

The resulting access control is displayed in the details pane.

Identity Center - [Console Root\SAP NetWeaver Identity Mar         Image: Second Sec	nagement\/MXME\	Identity stor,	es\Enterprise	2 People\IdM UI\Set password and rese	t attempts cou	
Console Root     Ø SAP NetWeaver Identity Management     Ø SAP Standalone jobs     □    M MKMC	Options Result h	andling Attribu	ites Access c	ontrol Presentation Documentation	Unorde	red task group
🕀 🔏 Management	Access type	Value	On behalf of	Value		Add
Identity stores     Attribute types	Logged-in user	Administrator	Everybody			Modify
Gentry store schema     Gentry store schema     Gentry store metadata     Gentry store metadatata     Gentry store metadatatatatatatatatatatatatatatatatatat						Remove
	<u>_</u>	1	11			
·					Apply	Help

- 7. Choose "Apply".
- 8. Select the task in the console tree and choose **New/Action task/Empty job** in the context menu.

🕞 Identity Center - [Console Root\SAP NetWeaver Identity M	anagement\MXMC\Identity store	es\Enterprise People\User Interface tasks\Set	password and reset attempts ]	_ 🗆 ×
📧 Eile Action View Favorites Iools Window Help				_ 8 ×
← →   🖻 📧   👗 🛍 💼   🗙 😭 🗟   😫 💷 🎘 🗳	🖬 🗅 🕨 🔳 🛷 🛄 🔯			
Console Root Console Root SAP NetWeaver Identity Management MXMC MXMC MARAGEMENT MATHOUGE types Consoleration MARAGEMENT MARAGEME	Options       Result handling       Acces         Image: Construct the state of the s	ss control Documentation   1849/Reset attempts counter 3448/Set password and reset attempts counter - None / Inherited MXPROV_ENTRIES - None 0 Minutes ¥ 30 Seconds ¥ 1 30 Seconds ¥	Public task Use inactive entries Use context variables	Help

Modify the name of the task in the console tree.

9. Select the job in the console tree.

🔽 Identity Center - [Console Root\SAP NetWeaver Identity M	anagement\MXMC\Identity stores\Enterprise People\IdM UI\Set password	and reset attempts counter\Re
File Action View Favorites Tools Window Help	-	_ 5 ×
← → È III (2) III (2) III (2) Console Root Console Root ⊖ Ø SAP NetWeaver Identity Management ⊕ ∰ Standalone jobs	Options     Logging     State     Documentation       Image: Templed     Image: Templed	
Management     Management     Management     Management     Management     Mathibute types	Job ID/Name: 3448/Reset attempts counter Runtime engine	Test job
<ul> <li>■ Enterprise People</li> <li>■ 20 Identity store schema</li> <li>■ 20 Identity store metadata</li> <li>■ UME tasks</li> </ul>	Runtime engine:     Java       Script language:     JScript       Scheduling	Right trim source attributes
	Schedule rule:     Provision       Scheduled time:     2010/12/01 01:17:31 PM         Run now     Stop now	Edit
Provisioning folder ⊕- Password reset tasks ⊕- Job folder ❶- UME-Jobs	Dispatchers	
<u>∢</u>	ldle	Apply Help

Modify the job name in the console tree and the following job properties:

#### Enabled

Select this check box to enable the job to be run by a dispatcher.

#### Run by dispatchers

Select a dispatcher that should be responsible for running this job.

- 10. Choose "Apply".
- 11. Select the job in the console tree and choose New/To Identity store from the context menu.

🕼 Identity Center - [Console Root\SAP NetWeaver Identity Mana	gement\MXMC\Identity stores\Enterprise People\User Interface tasks\Set password and rese	t attempts ] 💦 💶 🗙
File Action View Favorites Tools Window Help		_ 8 ×
← → 🗈 🖬 😤 🖬 🚝 🖨 🕨 🕨 💽 🚺		
Console Root  SAP NetWeaver Identity Management  Management  Management  Management  Mathute types  Contention of the set  Set password and reset attempts counter  Provisioning folder  Provisioning folder  Dob log  Constants  Provisioning folder  Dob log  Constants  Mathematical counter  Dob variables  Dob variables  Dob constants  Mathematical counter  Dob variables  Dob variables  Dob variables  Dob variables  Dob constants  Mathematical counter  Dob variables  Dob constants  Mathematical counter  Dob variables  Dob constants  Dob colder  Dob colder  Dob s	Repository       Source       Destination       Delta       Documentation         Destination Identity store       Enterprise People       Image: Constraint of the store of the sto	To Identity store
,		

In the "Destination" tab modify the following:

**Identity store** Make sure the correct identity store is selected.

**Entry type** Select entry type *MX\_PERSON*.

#### Definitions

Add the attributes to the definitions as shown in the picture above (you can use the context menu to insert the attributes).

12. Choose "Apply".

The task is now created and can be used. When entered in the User Interface the task will look like this:

🛃 EditTask - Micro	psoft Internet Explorer	
<u>File E</u> dit <u>V</u> iew	Favorites Tools Help	
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Address 🙆 http://	/webdynpro/dispatcher/sap.com/tc~idm~wd~workflow/EditTask?TaskId=17&E	intryId=91 🗾 💽 Go
Set pass	SWORD and reset attempts counter Display Name: 3030	Help
Save Modify F	Refresh	
Unique ID: *	3030	
Display Name: *	3030	
Password:	••••••	
Confirm Password:		
🛃 Done		Local intranet

The password can be set for the user and the number of failed attempts will be automatically cleared for the given user when the task is saved (i.e. the job *Reset attempts counter* will be run).



View the job log to verify that the job executed without errors: