ProLink

Aveksa Enhancement Pack

V1.5

Product Document

Notice

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Preface

About

This document describes the motivation for developing the Prolink Aveksa Enhancement Pack, together with instructions and explanation of the different tools comprising this package.

Audience

This document is intended for Aveksa administrators and users.

Important Note

The name Aveksa relates to the product also known (today!!) as RSA Via L&G.

Related Documents

To be advised.

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Introduction

About ProLink

ProLink Identity Management Ltd. (ProLink) is an Israeli based company, established in 1996. ProLink provides consulting and Professional Services while focusing on Identity Management and Governance solutions. ProLink has gathered unique and extensive experience working with multiple Identity management and governance products,serving customers from a broad spectrum of the market.

About This Product

This package provides a set of feature enhancements for Aveksa.
The term 'Aveksa' relates to RSA Identity Management and Governance product, also widely known worldwide as Aveksa.

With over 8 years of experience in helping organizations from a variety of sectors and sizes, ProLink had acquired some unique insight on the Aveksa product and have built custom add-ons to complement native product functionality with extra features needed by our customers.

These tools are solving real life issues, and have been used internally by our team, as well as by our customers, during project set up and during the ongoing business use of the system.

All modules can be integrated within Aveksa's own GUI, allowing simple use and accessibility, while maintaining similar look and feel of Aveksa.

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Support and Service

Customers under effective relevant software maintenance contract with ProLink are eligible for periodic software updates, that contains additional features and product fixes.

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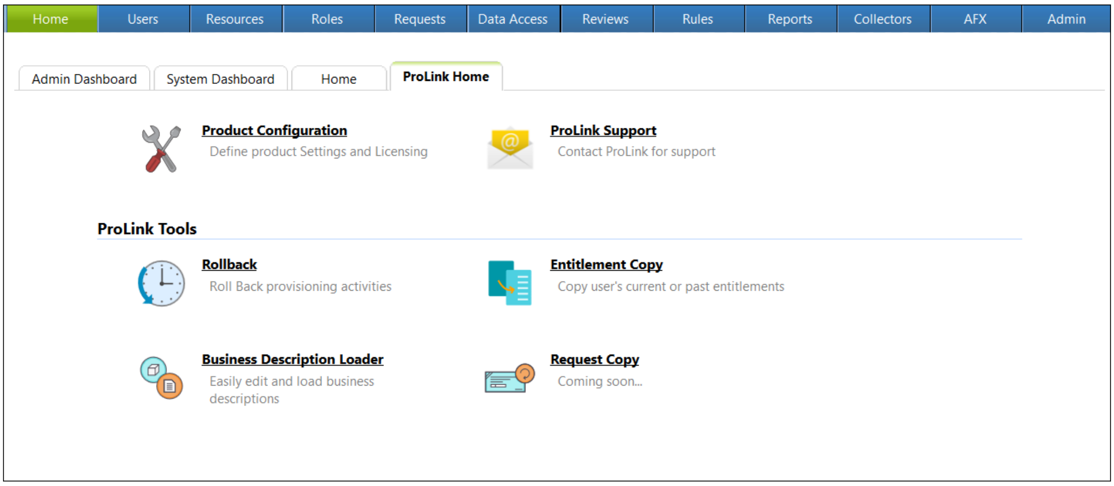
Functionality Overview

- All modules contained in this package are considered as add-ons to the current functionality in Aveksa.
- Visibility and access to these modules are from Aveksa's Home dashboards.
- Implementation is simple and requires short installation and testing activity.
- Future additions and updates are planned.

ProLink Home Dashboard



Modules included in this release

The current product release includes the following modules:

1. Rollback Utility
2. Entitlement Copy
3. Business Description Loader

The following chapters include detailed description of each feature.

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Installation & Settings

Procedure

1. **Download and extract files:**

- Please contact ProLink representative at support@prolink.co.il to receive the latest product installation zip file (PLAv[version].zip)
- Extract zip file to the following files:
    a. PLAv.jar
    b. *.jsp

2. **Copy Product Code:**

On Aveksa version 6.x :

- Copy the file PLAv.jar to the following location: /home/oracle/jboss-4.2.2.GA/server/default/deploy/aveksa.ear/aveksa.war/WEB-INF/lib

3. **Delete Files:**

- If, this is a re-installation then you must delete all files (except db.conf) in the following directory: /home/oracle/jboss-4.2.2.GA/server/default/deploy/aveksa.ear/aveksa.war/custom/prolink/aveksa/modules/resources

4. **Restart Aveksa Server:**

As an oracle user execute the following commands to restart:

- $ service aveksa_server stop
- $ service aveksa_server start

Alternatively, if you are running Aveksa on a hardware appliance you can restart from Aveksa GUI:

- Admin -- >System -- > Appliance
- Click on "Restart CM" button

5. **Upload JSP Files:**

- All JSP files should be UPLOADED to Aveksa using the Admin/User Interface screen.

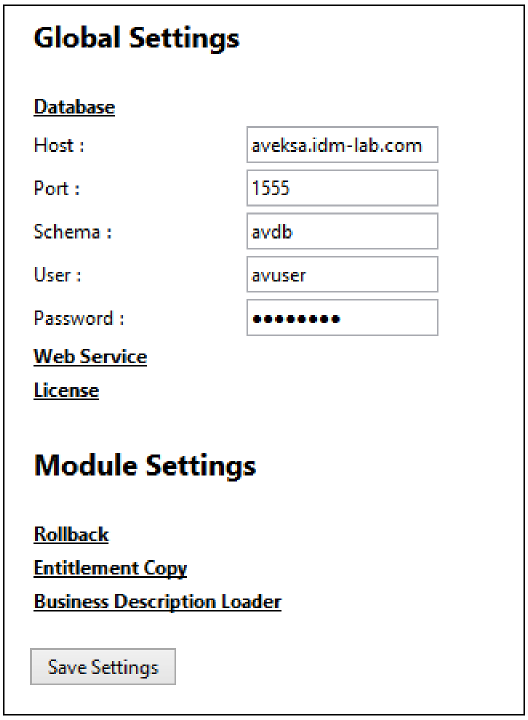
- Do NOT copy the files directly to the server.
- No need to restart the application after copying those files.

6. Add Dashboard:

Define a new Dashboard using the Admin/Dashboards screen. Use the below as example.

7. Define Product Settings and License Code:

Define product settings and license code (supplied with the product) using the Product Configuration link on ProLink Home dashboard.



Rollback

Feature Overview

Enables administrators to roll-back one or more successfully completed AFX provisioning activities.

Business Use Cases

- Serves as a “safety net” for customers during test phases by enabling to revert unwanted provisioning activities.
- Reverse the effect of provisioning activities that were carried out by mistake. Examples of such cases can be:
    - A mass change in Human Resources data causes removal of access rights from many users.
    - In an Access Review process, a reviewer marks user permissions for removal, while users still need that access.
    - A Rule created in the system causes removal of permissions from many users.

Functional Description

1. Scope

The following table details the supported operations that can be rolled back, together with the corresponding rollback activity:

Activity to Roll Back	Rolled Back Activity	Supported
Delete Account	Create Account	Yes
Disable Account	Enable Account	No*
Remove Entitlement from Account	Add Entitlement to Account	Yes
Remove Application Role from Account	Add Application Role to Account	Yes
Remove Group from Account	Add Group to Account	Yes
Create Account	Delete Account	Yes
Enable Account	Disable Account	No*

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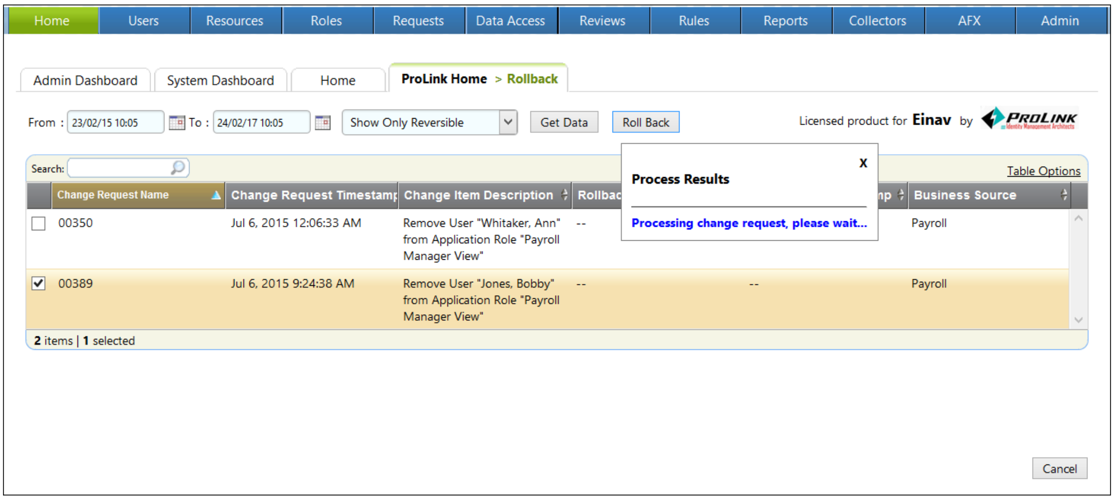
Activity to Roll Back	Rolled Back Activity	Supported
Add Entitlement to Account	Remove Entitlement from Account	Yes
Add Application Role to Account	Remove Application Role from Account	Yes
Add Group to Account	Remove Group from Account	Yes

(*) Support for Enable and Disable Account operations will be added in the next releases.

2. Required Permissions

The Rollback mechanism is only available for users defined as Aveksa System Administrators.

3. Rollback Screen



The Rollback screen is accessible from Rollback link on ProLink Home dashboard and includes the following components:

- **Date Filter** – to/from date selection of change items. Defaults to last day.
- **Change Type Filter** –
  - **All Items** – displays all change items processed during the time range selected.
  - **Show only reversible** – displays only change items that can be rolled back.

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  - **Show only non-reversible** – displays only change items that are NOT available for Rollback (mainly those which had been rolled back before)
- **Get Data Button** – activates search and display of Rollback candidate change items, according to the above Change Type Filter.
- **Roll Back Button** – Triggers Rollback process (prompts for final approval before launch).
- **Table data (List of changes)**
  - Displays candidate change items for Rollback. Each line details the CR Name (in which item is included), Change Request Timestamp, Change Item Description, and in case an item was already rolled back – the name of the Rollback CR and Timestamp.
  - Multiple or single line selection are both available. Rolled back lines cannot be selected again for Rollback.
- **Process Results Window –** Processing, Success or Failure indication will be displayed in this window. Window can be closed and re-opened.
- **Cancel Button –** available at any stage.

4. Important Notes

- Each Rollback run will create a <u>single</u> request that includes change items for the reversed commands of all chosen items.
- Rollback item will NOT be generated in the following cases:
  - The user has an open request containing addition change item of the same permission.
  - The permission requested for rollback was deleted.
  - If rollback item is "add group to an account" and such account does not already exist.
- In case of a problem in generating rollback activity for one or more of the selected changes, the rollback operation will fail to start. In such case, the administrator can attempt the operation again, after consulting the log files.

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- Rollback requests should normally skip approval phase.
  - This functionality would typically be implemented in the relevant request.
  - Starting with version 6.9 SP1 Patch 11 it's possible to attribute a dedicated workflow to requests that are originated by Web Services (It appears as a new option on Workflows/Overview tab).
  - Whether in a "Web Service" request workflow or in "Explicit" request workflow, the following pseudo-code needs to be added there:
    - **Step 1 –** 1 minute delay (to avoid any scheduling issues)
    - **Step 2 –** SQL query to determine request source (Rollback or not)
    - **Step 3 –** Decision point. If Rollback origin, then skip approval phase (go to fulfillment phase). Otherwise continue as per normal.

5. Rollback Activity Report

A new Rollback report is available from "Reports >> Tabular" menu. This report displays all changes originated from Rollback. The report will display a single line for every Change Item, including: Rollback CR ID/Name, User (who ran the Rollback job), Activity Details (such as Add/Remove Entitlement), Run Date/Time, and Original (reverted) CR ID/Name.
The report will be sorted by Business Source.

6. Rollback Activity Log

Activities performed in the Rollback module are logged in the normal Aveksa server/system log (available from "Admin >> System >> Logs" menu)

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Entitlement Copy

Feature Overview

This module provides a new and improved way to copy permissions from one user to another.

Supports copy of existing user's permissions, as well as historical permissions which a user had in the past but no longer has at present.

Business Use Cases

- When a user is taking over a job position, previously held by someone else, it is now possible to perform a single operation of granting the user the permissions his predecessor used to have in order perform his job. That includes the case where the predecessor does not have these permissions anymore or no longer works for the company.
- Simplifies the way entitlements are copied from one user to another by allowing multiple entitlement selection.
- Also supports normal copy of existing user permissions to another user.

Functional Description

1. Scope

- The Entitlement Copy function calculates and displays the difference in permissions between two selected users – a source user and a target user. It will then allow selection of entitlements the source user has and target user does not.
- All types of permissions are supported for the copy operation: Resource/Action entitlements, Application Roles, Groups and Roles.
- Only Addition of permissions is supported. Removal of permissions (that target user has and the source user does not) may be added in future releases.

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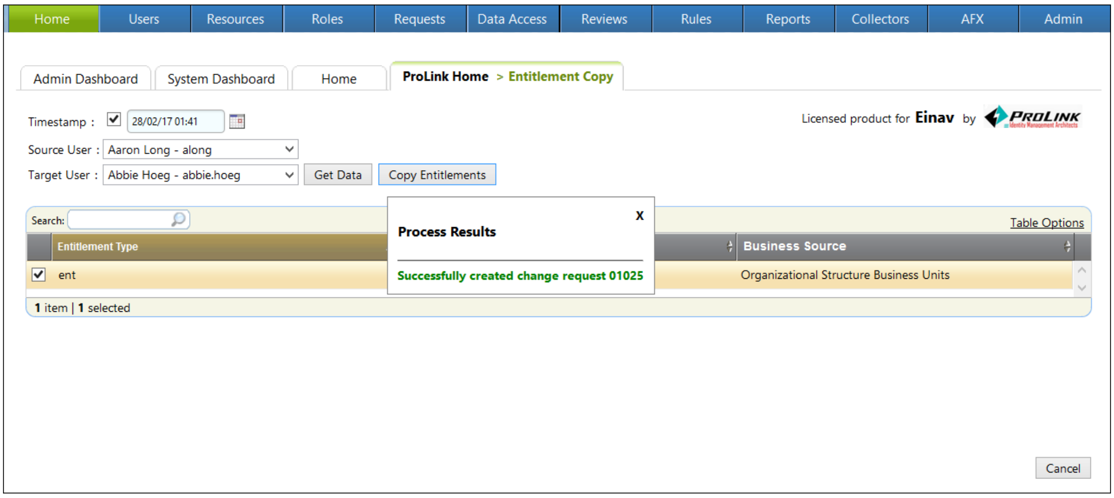
- The source user can be active or inactive (including Deleted or Terminated). The target user must be active.

2. Entitlement Copy Screen



The Entitlement Copy screen is available from Entitlement Copy link on ProLink Home dashboard and includes the following components:

- **Timestamp** – reference point of time for entitlement copy. When not marked it defaults to current time.
- **Source User** – User to copy entitlements from.
- **Target User** - User to copy entitlements to.
- **Get Data Button** – Activates search and display of source user entitlements.
- **List of Entitlements** – Displays candidate entitlements for copy. Each line details Entitlement type (Resource/Action entitlement, Application Role, Group or Role), Entitlement Path and Business Unit.
- **Copy Entitlements Button** – Triggers Copy Entitlements process (following by final prompt to acknowledge operation).
- **Process Results Window –** Processing, Success or Failure indication will be displayed in this window. Window can be closed and re-opened.
- **Cancel Button –** available at any stage.

3. Important Notes

- Each Entitlement Copy run will create a single request that includes change items of all chosen entitlements.
- Entitlement copy item will NOT be generated in the following cases:
  - The user has an open request containing addition change item of the same permission.
  - The permission requested for copy was deleted.
  - If entitlement item is "add group to an account" and such account does not already exist.
- In case of a problem in generating Entitlement Copy activity for one or more of the selected entitlements, the Entitlement Copy operation will fail to start. In such case, the administrator can attempt the operation again, after consulting the log files.
- Once launched, the module creates a Change Request in Aveksa that is handled by regular Request workflows. Those can be adjusted to follow the standard organizational approval policy, or behave differently for this use case.

4. Entitlement Copy Report

A report is not available.

5. Entitlement Copy Log

Activities performed in the Entitlement Copy module are logged in the normal Aveksa server/system log (available from "Admin >> System >> Logs" menu)

Business Description Loader

Feature Overview

This module provides a simplified way to edit and load mass quantities of business descriptions into Aveksa.

Background

In Aveksa, business descriptions are used when displaying permissions whenever possible, instead of the raw, often technical permission names that were collected from managed systems into Aveksa.

Without descriptions, it would be nearly impossible for business users to perform their day-to-day tasks, simply because they will not be able to recognize or understand the meaning of the data presented to them.

Aveksa has a built-in functionality which allows manual one-by-one load of free text descriptions to permission objects (Entitlement, Application Role, Group, Role). For a more advanced user, it is also possible to prepare a file (in CSV or XML format) to load large quantities of descriptions into Aveksa.

However, the purpose of this tool is to allow non-technical users to easily export, add, modify and upload large quantities of descriptions into Aveksa.

Business Use Cases

- Simplifies the way descriptions are loaded into Aveksa by enabling the work to be done in chunks rather than one-by-one.
- Since descriptions are exported into Excel format, users can enjoy the benefits of Excel's filtering and editing capabilities. This makes the work of adding and updating descriptions much easier.

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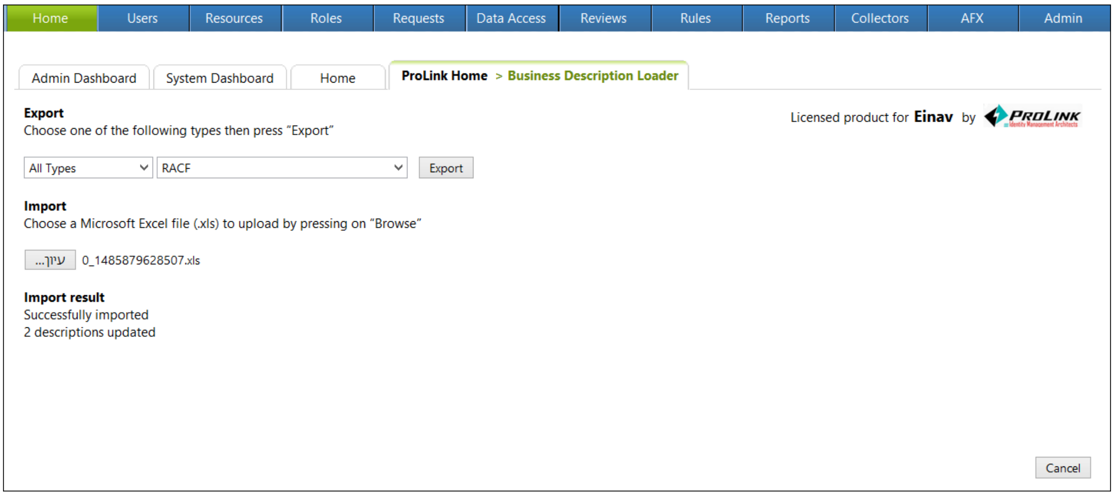
Functional Description

1. Scope

- The Business Description Loader supports the following objects: Business Source, Application Role, Entitlement, Group and Role.

2. Business Description Loader Screen



The Business Description Loader screen is available from Business Description Loader link on ProLink Home dashboard and includes the following components:

- **Export:**
  - **Object Type** – drop down selection list of object type to extract. Defaults to All Types.
  - **Application (Business Source)** – drop down selection list of business source to extract objects from.
  - **Export Button** – following approval, generates an Excel file with the selected data.
- **Import Panel**:
  - **Browse Button** –Browse to select the Excel file with description data to load.
  - **Import Results** – Lists process success/failure results and how many descriptions were updated.
- **Close Button –** available at any stage.

Example Excel file

	A	B	C	D	E	F	G	H
1	Application	Type	Object Filter	Name	Short Description	Long Description	Help Url	Update (blanks will be not update)
2	Hyperion	Entitlement	460 : None	460 : None				
3	Hyperion	Entitlement	462 : All	462 : All	462 ALL SHORT	462 ALL LONG		Y
4	Hyperion	Entitlement	462 : Read	462 : Read				
5	Hyperion	Entitlement	465 : All	465 : All				
6	Hyperion	Entitlement	465 : Read	465 : Read				
7	Hyperion	Entitlement	BR4014 : Read	BR4014 : Read				
8	Hyperion	Entitlement	COMMON : None	COMMON : None				

3. Important Notes

- The Business Description Loader will only update Description data for lines marked up for update in the Excel file (Column "Update" is not blanks)

4. Business Description Loader Report

A report is not available.

5. Business Description Loader Log

Activities performed in the Business Description Loader module are logged in the normal Aveksa server/system log (available from "Admin >> System >> Logs" menu).

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