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SCIM User Provisioning

Service Description

imc Learning Suite

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Preface

The imc Learning Suite (LMS) is a standard product (standard software) which is constantly being extended with further functions & features (Innovation Packages). The LMS offers several standard integration possibilities, and this document describes one such service: user provisioning using the **SCIM api**.

The imc Learning Suite utilises the **SCIM2.0 api** to provision users (create, update, de-activate, assign). SCIM is a REST and JSON-based protocol that defines a client (generally an IDP on the customer side) and server role (the imc Learning Suite). The protocol focuses on user data transfer and aims to simplify user provisioning and management in cloud-based applications. You can find some more info here: http://www.simplecloud.info.

This document contains the procedures to configure SCIM user provisioning in the LMS, considering the following aspects:

- **Description of the services to be provided** by the imc project team in the context of an implementation of user provisioning using the SCIM api.
- **Description of the competences and responsibilities**, which lie partly with imc and partly on the customer's side.
- **Description of the procedure, the process and time dependencies** for a transparent view of the individual steps is possible for all involved people.

User Provisioning via SCIM

User Provisioning via SCIM needs to exchange details between the customer's Identity Provider (IDP) and the LMS, requiring efforts from both an **imc Consultant** and a **customer IT representative**. The implementation of the SCIM interface is approached in the following sequential phases by imc:

- **Design phase**
- **Implementation phase**
- **Roll-out/Close phase**

Design phase

During the design phase, the **imc project team** will create and provide a functional specification to the customer, which includes the following key information for the SCIM integration:

1. An LMS user, required to access the SCIM interface *
2. A mapping of user attributes in the LMS **
3. The necessary api endpoints (GET, POST, PUT) for the SCIM requests and responses

Notes:

* The SCIM integration requires authentication via BASIC authentication, from the customer's IDP. As part of the process, imc will therefore create an LMS user and provide the customer with username and password.

** The user attribute mapping is based on the user profile attributes that are already configured in the LMS. The user profile attributes definition is generally done as part of a roll-out project.

If the SCIM integration is ordered as part of an LMS rollout project (i.e. LMS user profiles have not been defined yet in the LMS) or ordered as part of a redefinition of the LMS user profile attributed, an additional step is required to define the LMS user profile attributes. This is done with the **imc project team** and a **customer business representative**.

Result of the design phase: The functional specification document created by imc and the customer's approval for implementation is available.

Implementation phase

During the implementation phase, configurations will be done on the customer's LMS.

If the customer has a STAGE or TEST LMS with imc, then the implementation will first be done on that system. Otherwise, configuration is done directly on the customer's PROD system.

The **imc project team** will first:

1. Create the LMS user, required to access the SCIM interface
2. Configure the mapping of user attributes in the LMS
3. Test the necessary api endpoints

During the implementation phase, imc will test the integration, using the created LMS user and endpoints, using api tools (postman, Apidog or similar). imc is also able to provide the api schema to the customer, based on the tested data.

The **customer IT representative** will then be responsible for:

1. Configuring the IDP to connect to the LMS using basic authentication and the provided LMS user
2. Configuring the user attributes which will be transmitted to the LMS
3. Test the integration based on the configured mapping and endpoints

Important:

During the configuration by the customer, imc can support with short technical calls. These are limited to the scope of the integration and the information provided already during the design phase.

The **customer IT representative** needs to ensure that their IDP can connect to the LMS via SCIM. imc will not be able to support with any configuration on the IDP side.

The imc SCIM interface is also provided as a standard connector. If an integration needs custom work (coded changes to imc's LMS) to allow connection to a specific IDP, a change request will be required.

Any logics for when to create or update a user, is also the customer's responsibility will not be managed by imc.

Result of the implementation phase: The customer specific SCIM configuration has been implemented by imc and the customer has successfully configured the IDP to connect to the LMS and provision users.

Roll-out/Close phase

During the roll-out phase, if the customer has a STAGE or TEST LMS with imc, then the same steps as in implementation phase are replicated on the customer's PROD system.

Once the integration has been formally confirmed to be working on the PROD system by the **customer**, the **imc project team** will close the project.

Result of the roll-out/close phase: The customer specific SCIM configuration has been implemented in PROD and the customer confirms the implementation is complete.

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