eSaude – Data Migration Tool

Release Note

Version: 1.0

Release Date: 12/01/2015

Change Log

#	Author	Date	Description
1	Valério João	12-01-2015	First document

Release Features

Feature #1 (Flexibility)

Migration logic is created in a non-programmatically fashion. Users only have to learn the structure of the mapping file. It reduces effort in creating and maintaining the mappings and requires no programming knowledge.

Feature #2 (Configurability)

The tool allow different configurations for different migration sessions, using the following variables:

- **Tree limit:** indicates the number of trees to migrate, if each tree has the patient as root, then *tree limit = 10* will migrate 10 patients per session.
- **Allow commit:** user can determine whether or not to commit the migration. For instance a user may run a migration just for correctness check, to make sure that the mapping and cleaning are ok avoiding the risk of damaging the target database.
- **Reset process:** allow users to decide whether to start the migration from the first tree or resume from previous session.

Feature #3 (Transaction support)

The tool ensures that in case of failure during the execution of the migration, only the tree (patient data) where the failure occurred is rolled back and the next session will resume from the same rolled back tree (only if reset process = false). This mechanism guarantees integrity of data and provides flexibility while migrating large databases.

Feature #4 (Transparency)

During all the migration phases (validation, translation and execution) the tool provides feedback to the user on-the-fly and auditing info. This feature guarantees transparency of processes and relevant info to locate and fix eventual mapping and cleaning problems.

Feature #5 (I18N)

Support for multi-language.

Feature #6 (Reusability)

The tool is reusable, it can be configured to migrate from different SOURCE databases into OpenMRS. No extra development effort is required, separated mapping and config files are used to provide the required source database mappings and settings.

Feature #7 (Portability)

The tool is portable and lightweight, it can run on any platform without any specific hardware and software requirements.

Enhancements

(None)

Fixes

(None)

Known Issues and Problems

Issue #1

DMT doesn't provide data cleaning features. The tool performs the migration of data AS-IS, if there is any issue regarding of integrity and mapping incompatibility, these issues must be addressed in a separated process prior to migration.

Workaround

The group eSaude provided a data cleaning tool (eSaude DCT) for the specific context of SESP vs eSaude EMR (OpenMRS) migration. The DCT prepare the source database (SESP) for migration, fixing recurrent issues between distributions. The DCT can be found in the same package along with the DMT.

Issue #2

DMT is a java based tool and requires ODBC/JDBC driver or a bridge to communicate with the databases, some of those drivers are platform specific, some requires Java 32 bit and others Java 64 bits. For the specific context of SESP vs eSaude EMR the *MS Access ODBC driver* is required, and this driver can only run with Java 32 bit.

Workaround

Java 32 bit must be installed for 64 bit platform users. See: https://github.com/esaude/data-migration-system

Installation and Execution

For installation and execution guidance of this release, see the project web page at: https://github.com/esaude/data-migration-system