# Code Repositories Overview

# Repositories

There are 3 GIT repositories where the source code is organized.

* frms-platform
* frms-desktop
* frms-web

# frms-platform

Location at Arbonaut GIT server:

http://vserver3:9009/scm/git/frms-platform

This repository contains the following items and components:

* Data model scripts and patches
* SN (Synchronization client application) component
* RA (Reporting application) component

#### Data model scripts and patches

The directory structure:

/frms-platform

   datamodel

      build

      original

          ...

          0010\_create\_tables.sql

          ...

   patches

      0002

          0002-C-001\_update\_datamodel.sql

          ...

For example:

/frms-platform/datamodel/patches/0002/0002-C-001\_update\_datamodel.sql

is  a data model patch within a data model patches set of version 2 to be applied to central database where:

* 0002 - is a data model version to be upgraded to, with leading zeros; upgrading data model version must be 1
* C (or L)  - central or local databases the patch is to be applied to
* 001 - order of a patch
* update\_datamodel - just a human readable name of a patch

The path

/frms-platform/datamodel/original

contains data model scripts to create local/central database data model. At the moment only the local database  data model creation scripts are available.

**Data model versioning in the data model patches**

Data model scripts must update the data model version information in both Local database and Central database. Each script needs to have the following SQL commands which set the version information in version and change\_log tables.

updating Version table

UPDATE version SET version=<data model version #>, script=<patch order #>;

*for example:*

*UPDATE version SET version=10, script=999;*

Updating change\_log table.

change\_log table is used to track which patches are installed into database and in which order. Each script shall contain a command to add a new record to the change\_log table:

INSERT INTO change\_log (version, script, script\_name, description)

VALUES (<data model version #>, script=<patch order #>,’<name and path of the patch file>’, '<Description of what was changed in data model>');

*for example:*

*INSERT INTO change\_log (version, script, script\_name, description)*

*VALUES (10, 999, '/frms-platform/datamodel/patches/0010/0010-L-999\_update\_version.sql', 'Change PK fields in plot table to be type uuid keys');*

**Data model versioning in Database admin scripts**

Database admin is used to create the local database for FRMS desktop distributions. The data model version in version table of Local database much match the data model version in version table of central database.

Therefore every time when the data model is changed the following commands in the frms-platform/datamodel/original/220\_create\_versioning.sql script must be updated with the correct version information in FRMS platform repository.

*INSERT INTO version (version, script)*

*VALUES (10, 999);*

*INSERT INTO change\_log (version, script, script\_name, description)*

*VALUES (10, 999, '/frms-platform/datamodel/original/220\_create\_versioning.sql', 'FRMS v3 uuid datamodel');*

# 

# frms-desktop

Location at Arbonaut GIT server:

http://vserver3:9009/scm/git/frms-desktop

This repository contains the FRMSClient plugin python code for QGIS. The datamodel scripts and patches are maintained in /frms-platform/datamodel directory of frms-platform repository.