# Data Model

# Data Model Resources

#### GIT repositories

Data Model scripts and resources are located in frms-platform  repository.

Arbonaut GIT server:

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

VNFOREST external GIT server:

http://git.vnforest.gov.vn/scm/frmsrep/fmrs-reporting.git

#### Directory Structure

See directory structure of data model resources at [Code Repositories Overview](C:\\Users\\pasi\\Documents\\FRMS Vietnam\\documents\\FRMS-2.0 documents\\FRMS software development\\Code_Repositories_Overview.docx)

# Data Model Change process

Data model scripts are intended to create up-to-date data model and database business logic in central or local databases (PostgreSQL). Data model is continuously evolving. In order to manage changes in data model we establish a process called **Data Model Change Process**.

Process steps to bring changes:

1. Make data model change request and document necessary changes ([Data model changes.xlsx](file:///C:\Users\pasi\Documents\FRMS%20Vietnam\documents\FRMS-2.0%20documents\Technical%20reference\Data%20model\Data_model_changes.xlsx) and [Data model capabilities.xlsx](file:///C:\Users\pasi\Documents\FRMS%20Vietnam\documents\FRMS-2.0%20documents\Technical%20reference\Data%20model\Data_model_capabilities.xlsx))
2. Update original scripts of the data model (commons scripts or local/central database specific scripts
3. If necessary (for central database especially) implement also SQL patch to deliver changes to legacy database
4. Generate the new data model diagram from updated database with pgModeler.

Data model is versioned.  Because at initial stage of FRMS system development the data model was not managed through scripts and scripts were collected only at FRMS 2.0 development cycle we assume that data model before FRMS 2.0 release has version 1. And FRMS 2.0 data model has version 2.

Any next release that also includes changes in the data model raises a version of the data model (3,4,.. natural integers).

Data model version is not correlated to FRMS system version (like 2.0).

Patches and data model scripts must follow naming conventions presented in [Code Repositories Overview](file:///C:\Users\pasi\Documents\FRMS%20Vietnam\documents\FRMS-2.0%20documents\FRMS%20software%20development\Code_Repositories_Overview.docx) document