**Database versioning**

Starting from FRMS 2.0.7, Synchronization module will start checking local and central database versions. If the versions do not match, Synchronization module cannot be started. This is done to prevent synchronizing old, incompatible data to central database. To force this change, central database passwords will be changed when 2.0.7 is deployed. For old FRMS versions changing synchronization port is very effective. Table structure is presented in Data Model

# Important note about import tool

In order to block older versions of import tool from working with central database, it is advisable to either change password of central database role that is used in import tool or

block external access for database role that was used in import tool in *pg\_hba.conf* and create new role for import tool, or

use one of the existing roles (e.g. formisadmin) in import tool

# Creating versioning on local database

Local database versioning is created during local database construction.

# Creating versioning on central database

Run following patches in central database:

frms-platform\datamodel\patches\0009\0009-C-001\_create\_versioning.sql frms-platform\datamodel\patches\0009\0009-C-999\_update\_version.sql

# Changing passwords for central database

Central database passwords should be changed for roles formisuser and formisadmin. It is not be necessary to change password for role formissymds, but if it is changed, update new password in SymmetricDS engines/corp-000.properties

1. decide new passwords (roles can and should have different passwords)
2. create encrypted formisuser password for configuration using [Jasypt](http://www.jasypt.org/) ([alternate download](https://sourceforge.net/projects/jasypt/files/)) (See also Test server installation for FRMS 2.0)
   1. each time different encryption will be generated for same input
3. copy output to sync.properties file inside **ENC(**...**)**
4. alter role passwords in central database

**Example:**

new passwords are vietFRMS2018nam and vietADMIN2018nam

**Jasypt:** (encryption password is hidden on purpose, it can be found e.g. from

/frms-context/src/main/java/org/arbonaut/formis/nfis/beans/PlaceholderConfigurerFactoryBean.java *encryptor.setPassword();* on line 31)

C:\Projects\FRMS\source\frms-platform\util>jasypt-1.9.2\bin\encrypt.bat password

=<hidden> input=vietFRMS2018nam

----ENVIRONMENT-----------------

Runtime: Oracle Corporation Java HotSpot(TM) 64-Bit Server VM 25.60-b23

----ARGUMENTS-------------------

input: vietFRMS2018nam password: <hidden>

----OUTPUT---------------------- QJZY7TH93avytwz/KRrV815IWU0IU553

**sync.properties:**

frms.onlinedb.password=ENC(QJZY7TH93avytwz/KRrV815IWU0IU553)

**central database with e.g. pgAdmin:**

ALTER ROLE formisuser SET ENCRYPTED PASSWORD 'vietFRMS2018nam';

ALTER ROLE formisadmin SET ENCRYPTED PASSWORD 'vietADMIN2018nam';

**Changing synchronization port**

1. stop SymmetricDS service on server
2. change port in SymmetricDS engines/corp-000.properties sync.url
3. change port in SymmetricDS conf/symmetric-server.properties http.port (and jmx.http.port)
4. change port in central database in table symds.sym\_node, column sync\_url where node\_id='000'
5. open port in firewall if necessary
6. change port in client sync.properties frms.symmetric.reg\_url
7. start SymmetricDS service on server
8. check access with Synchronization module using **blank** local database