FM/FP Import Steps using the scripts and EHR-S FM command line tools

This document describes the input and steps needed to produce the publication of a EHR-S Functional Model or EHR-S Functional Profiles using the EHR-S FM command line tools at <https://github.com/HL7/ehrsfm-tool>.

Specifically the tools in the folders “HL7\_FM\_CLI.ConsoleApp” and “publication”. The first is the model validator and profile compiler and the second is the publication generator.

# Case 1: PHR-S FM (Functional Model)

script works on Excel and produces a functional model max file direct input for the publication tool

1. Define the PHR-S FM in a spreadsheet with columns XYZ
2. Export excel as “XML Spreadsheet 2003”
3. > docker run -it -v "`pwd`":/app hl7-fm
4. @> cd /app/import-scripts
5. @> node phr-excelxml2max.js > /app/publication/source/phrs-fm.max
6. @> cd /app/publication
7. @> ant 3PHRSFM
8. The publication phrs-fm.pdf and phrs-fm.html will be in the /app/publication/pdf and html folders

# Case 2: UFP (Companion Profile)

script works on Excel and produces a compiled functional profile max file direct input for the publication tool

1. Define the UFP in a spreadsheet with columns XYZ
2. Export excel as “XML Spreadsheet 2003”
3. > docker run -it -v "`pwd`":/app hl7-fm
4. @> cd /app/import-scripts
5. @> node ufp-excelxml2max.js > /app/publication/source/ufp.max
6. @> cd /app/publication
7. @> ant 3UFP
8. The publication ufp.pdf and ufp.html will be in the /app/publication/pdf and html folders

# Case 3: DHFP (Domain Profile)

script works on the Excel with XML bindings and produces a domain profile definition input for profile compiler that produces a compiled profile as input for the publication tool

Prereq: you need the XML Developer feature of Excel enabled

1. Define the profile in a copy of “FM Import Template.xlsx”
2. ~~Make sure you enabled the XML Developer tab for Excel. https://support.microsoft.com/en-us/office/show-the-developer-tab-e1192344-5e56-4d45-931b-e5fd9bea2d45~~
3. ~~Create import-scripts/input and import-scripts/output folders~~
4. ~~Developer tab / Source~~
5. ~~Add Source fp-schema.xml~~
6. ~~Drag to columns (in order!)~~
7. ~~Export XML to import-scripts/input/DHFP-....xml~~
8. > docker run -it -v "`pwd`":/app hl7-fm
9. ~~@> cd /app/import-scripts~~
10. ~~@> node dhfp-xml2max.js > output/dhfp-profiledefinition.max~~
11. ~~@> cd /app/HL7\_FM\_CLI.ConsoleApp~~
12. ~~@> dotnet run compile /app/import-scripts/input/ehrs\_fm\_r2\_1-2020APR.max /app/import-scripts/output/dhfp-profiledefinition.max /app/publication/source/dhfp.max~~
13. ~~@> cd /app/publication~~
14. ~~@> ant 3DHFP~~
15. @> cd /app
16. @> gen-dhfp.sh
17. The publication dhfp.pdf and dhfp.html will be in the /app/publication/pdf and html folders

And also create a Changed Only publication by yielding the “Companion” type functionality.

Take the output/dhfp-profiledefinition.max and copy to output/dhfp**c**-profiledefinition.max and edit the type to “Companion”.

1. ...
2. @> cd /app/HL7\_FM\_CLI.ConsoleApp
3. @> dotnet run compile /app/import-scripts/input/ehrs\_fm\_r2\_1-2020APR.max /app/import-scripts/output/dhfpc-profiledefinition.max /app/publication/source/dhfpc.max
4. @> cd /app/publication
5. @> ant 3DHFPC
6. The publication dhfpc.pdf and dhfpc.html will be in the /app/publication/pdf and html folders