Validation of Profile Definition and Compiled Profile

All the rules for Functional Profile creation were included in the EHR-S FM FP Designer tool as validation rules. Running a validation will give you a report on errors and warnings on the work you have done on the Profile Definition or the Compiled Profile. To run a validation you use the extension.

Validation of the Profile Definition:

Before you are going to compile the Compiled Profile it is useful to run a validation on the Profile Definition. This validation will give you a report on errors and warnings.

Example of an error is:

In a Functional Domain Profile a 'shall' criterion shall not be changed to a 'should' or 'may' criterion.
The error message is 'The change of the optionality is not allowed in the Functional domain Profile'.

Example of a warning is:

The tool supports the qualification of the timeframe for the functions with 'Essential Future' are required to be implemented.
The warning is 'You did not include a timeframe for when the function is required te be implemented'.

Validation of the Compiled Profile:

For a last check you can run a validation on the Compiled Profile before you are going to publish it.

Run a validation:

* Select the package of the Profile Definition or the package of the Compiled Profile. If you select the last one be sure that you have the Compiled Profile imported in EA.
* Right click and select Extensions.
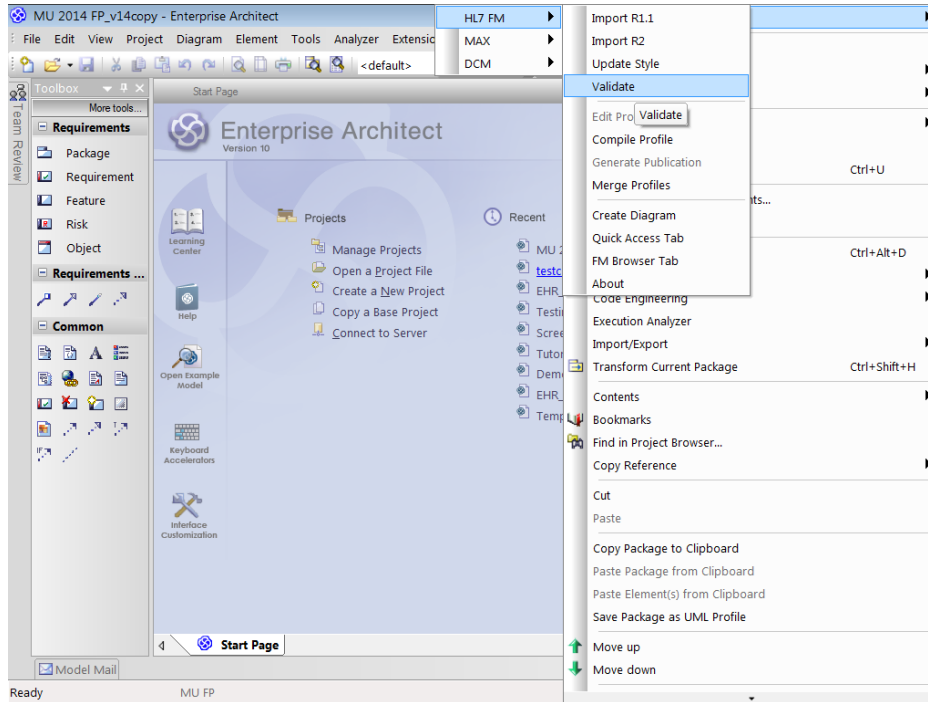* Select HL7 FM and select Validate. See figure 1.

Figure 1. Run a validation.

EA will execute a validation on the Profile Definition or Compiled Profile. This will take a moment. A report as a System output is shown.

System Output

@11/28/2014 6:41:20 PM FPID02:You have not included the version of the Functional Profile.
@11/28/2014 6:41:20 PM FPID03:You have not included the issuance date of the Functional Profile.
@11/28/2014 6:41:20 PM FPID04:IF you have made changes to the normative language you shall include a description of the changes or differences in that.
@11/28/2014 6:41:20 PM FMTC02:You have not included the version of the Functional Model from which the Functional Profile is derived.
@11/28/2014 6:41:20 PM FMTC03:You have not included the date of the Functional Model from which the Functional Profile is derived.
@11/28/2014 6:41:20 PM FPID03:You have not included the issuance date of the Functional Profile.
@11/28/2014 6:41:20 PM FPID04:IF you have made changes to the normative language you shall include a description of the changes or differences in that.
@11/28/2014 6:41:20 PM FMTC02:You have not included the version of the Functional Model from which the Functional Profile is derived.
@11/28/2014 6:41:20 PM FMTC03:You have not included the date of the Functional Model from which the Functional Profile is derived.
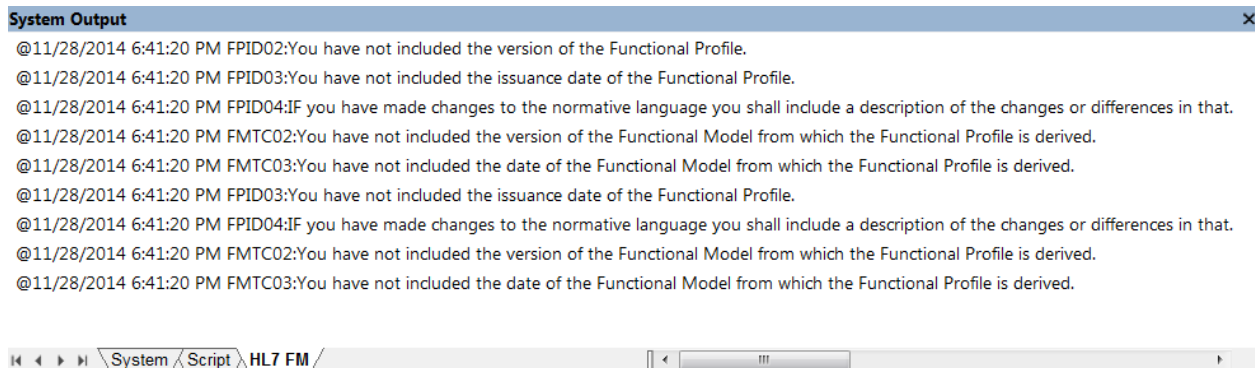
Figure 2. A report of the validation of the Compiled Profile.

Based on the errors in the report you can adjust the Profile Definition and based on the warnings you can review the Profile Definition. You can adjust the Profile Definition after review.

Now you can compile the Compiled Profile again based on the adjusted Profile Definition.