

User Guide for Electronic Health Record-System Functional Model Reader's Guide to the Tool Documentation

HL7 Tooling Work Group

HL7 EHR Work Group

User Guide for Electronic Health Record-System Functional Model, Tool November 2014

Reader's Guide to the Tool Documentation

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Welcome!

Welcome to HL7's Electronic Health Record System tool documentation 2014 Release 2. This brief Reader's Guide gives you a short guided tour of the content of the various chapters of the Profiling Tool documentation and points you to associated background reference materials that will answer most of your questions.

What is the background of the current release?

The HL7 EHR-S Functional Model, which was approved in July, 2004 as a Draft Standard for Trial Use (DSTU), has undergone a series of enhancements in the past two years, as it became a fully approved American National Standards Institute (ANSI) and International Standards Organisation (ISO) standard. A broad constituency – including intensive outreach to industry, care providers, and healthcare organizations – has worked to refine the initial EHR-S Functional Model. In this development process it was experienced that the process of developing a new release was very complex and the support of a tool was needed. This release 1 of the tool contains the EHR-S FM Release 2 as a starting point for further development of the tool. Release 2 of the tool enables the user to develop a Functional Profile based on the EHR-S FM Release 2.

What documents are in this package?

The documents in this package comprise Release 2 of the EHR-S Functional Model Tool. The package zip file contains the following files:

November 2014: note that the files in this package can change over time depending on further development of the tool. The version numbers are left out intentionally.

EHR-S Functional Model Tool Documents & File Names	Content
Reader's Guide	Description of the EHR-S FM Tool Release 2 package
EHR_S_FM_TOOL_C0_Readme.pdf	content and files. This document!
Chapter One: Overview	Background.
EHR_S_FM_TOOL_C1_Overview.pdf	Purpose & Scope.
	Overview and Design of the EHR-S FM Tool.
	Anticipated Uses.
Chapter Two:	Description of the import of the EHR-S FM in the Tool.
EHR_S_FM_FP_Designer_TOOL_Insta	Description of how to handle the Enterprise Architect extension.
.pdf	
User Guides for the use of the EHR	There are different user guides that give the user
Profile Designer Tool	guidance on how to use the tool as a support for
	creating functional profiles. The user guides are ordered in:
	How to guide:
	 How to guide. How-to Guide_R2_final.pdf
	Browse:
	 ReadEHRSFM.pdf
	 SearchEHRSFM.pdf
	 TraceabilityElements.pdf
	Creation: Olntroduction.pdf
	 OIntroduction.pdf 1CreateNewProfile.pdf

EHR-S Functional Model Tool Documents & File Names	Content
Enterprise Architect explanation file with EHR-S FM in UML Design Sheets from EA (2013-May- 24)v5.pdf EHR-S FM Tooling Design.eap	 2LoadBaseModel.pdf 2LoadBaseModel.pdf 4ProvideGeneralInformation.pdf 5CreateUMLmodelNewFP.pdf 6CreateProfileDefinition.pdf 7CreateCompiledProfile.pdf 8Validation.pdf 9CreatePublication.pdf Edit FP AddingEHR_S_FMFPcomponents.pdf CollaborationFunctionalProfile.pdf MovingEHR_S_FMFPcomponents.pdf ProjectManagement.pdf TrackingChanges.pdf Export Export Sasic FM Export Table Template.rtf Combine, compare & Merge CombineCompareMerge.pdf FAQ FAQ.pdf This pdf file contains the following UML diagrams: EHR-S FM R2 spreadsheet to XML schema. Mapping of EHR-S FM R2 XML schema to UML Meta Model. UML Meta Model 3.4 EHR-S FM R2. UML representation of EHR-S FM, first draft. Glossary mapping
Validation rules spreadsheet with rules used to develop the EHR-S FM tool ValidationRulesEHR-SFMR2- 20130520-AS.xls	 The files are developed in a separate EA file which has these diagrams in design mode. Description of all the validation rules that are used to develop the validation process
EHR-S FM R2 export in MAX format EHRS_FM_R2 (import v2013-mar-29)- full.max EHR-S-FM-max-export.html	An export of the EHR-S FM R2 in MAX format. And a simple representation of MAX in html. The import refers to the May 2013 ballot master spreadsheet that is the basis for this.
XML Generator for EHR-S FM spreadsheet EHR-S FM_R2_XML-Generator.zip (named .zap, rename to .zip to extract). EHR_S FM_XML-Generator.pdf	During the creation process of the EHR-S FM Tool, the project team encountered some issues with the existing XML file from the May 2012 ballot. This was the reason to create a standalone tool that allows generating a full XML file from the Excel spreadsheet for EHR-S FM. The .pdf is the instruction.
EHR-S FM Extension EHRSFM_EA_Extension.Setup (2013- may-27).msi or EHRSFM_EA_Extension.Setup (2013- may-27).RENAME_to_msi	The EHR-S FM Extension to EA as a .msi file. This is the tool . Some websites do not allow storage as .msi, so it is often .RENAME_TO_msi. Save the file on your hard disc and rename the file as described in Chapter Two Installation.

EHR-S Functional Model Tool Documents & File Names	Content
	This is created in MS Visual Studio 2010 C#
EHR-S FM Content for Enterprise	The EHR-S FM content in a for Enterprise Architect
Architect	readable file (eap file). This is a ready to go file,
EHR-S FM R2 (@GForge v2).eap	preventing that every user should import the full.max file themselves.
XSLT for MAX to HTML	XSLT stylesheet for the html publication of the EHR-S
max2html.xsl	FM export in MAX output from EA.
functional-model.css	With Cascading Style Sheet and SCSS source file for
functional-model.scss ehr-s-fm-ballot.mif	it. The ballet MIE file adde the ballet details, each ire and
	The ballot MIF file adds the ballot details, cochairs and copyright statements to the html and pdf publication.
XSLT from MAX to FO to PDF	An XSLT stylesheet that allows the conversion of the
max2fo	html to FO and from there into PDF. The MIF contains
ehr-s-fm-ballot.mif	the ballot details.
EHR-S-FM_R2-from-max.pdf	The pdf with the browsable content list is the result.
Validation testing of EHR-S FM via XML	Set of files that validate the FM using the MAX export
artifacts	and external validator. The validation report is send
fm-max-validation-test.xml	back to the user in the EA interface.
FM-validation.sch	The txt document is an example of output. Every rule
fm-validation.xslt	is tested with a pass / fail result.
Validation output (2013-apr-18).txt	This contains the viewel studie 0040 OV source as de
Source code for the EHR-S FM Extension	This contains the visual studio 2010 C# source code for the solutions and the projects. And the MAX
HL7 SourceCodeEHR-S FM Tool	materials.
(2013-may-27).zip	materials.
Publication documents generated from	The EHR-S FM in a html format generated from the
the EHR-S FM tooling output in html	MAX export coming from Enterprise Architect. It uses
and pdf:	a Cascading Style Sheet.
EHR-S-FM_R2-from-max.html	
EHR-S-FM_R2-from-max.pdf	
Publication of the FM or FP in Excel	XML Generator for EHR-S FM spreadsheet
EHR-S FM_R2_XML-Generator.zip	