EHR-S FM Tooling project 2013

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The EHR-S FM extension for Enterprise Architect

Instructions for the use of the extension

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Topics

- Install the EHR-S FM extensions
- Install the MAX extension
- Update the extensions
- Open the EHR-S FM .eap file
- Browse and search in the EHR-S FM
- Changing EHR-S FM components
- Adding EHR-S FM components
- Delete EHR-S FM Components
- Moving EHR-S FM Components

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Install the EHR-S FM extension

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Enterprise Architect as prerequisite

- Sparx supplies Enterprise Architect licenses to HL7 International members working on HL7 projects. Please refer to the HL7 website for further instructions.
- Individuals wishing to use Enterprise Architect for HL7 projects can download the software at http://www.sparxsystems.com.au/products/ea/
- The user can consult the Sparx website for downloading and installing Enterprise Architect. Please go to: http://www.sparxsystems.com.au/support/faq/download_install.html

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Installing the EHR-S FM extension

- Copy the extension to your local hard drive. Make sure EA is not running!
- Open Windows explorer and look for the folder where you copied the extension to.
- Rename the extension to .msi by removing the part ‘RENAME_TO_.
- Then right-click and "Install". Follow the steps the computer is asking for. See next slide.

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Computer ▸ Results4Care (D:) ▸ R4C-Projecten ▸ EHR-S FM Tool ▸ Implementation ▸

Search Implementation

Organize ▾ Install ▾ Burn New folder

- EHR-S FM Tool
  - Articles & Presentations
  - Design
  - Documentation
  - Drafts
  - Dutch 1.1 EHR-S FM Tool
  - Implementation
  - Issue log
  - Offerte
  - Opgeleverd 30-09-2012
  - Opgeleverd eind november
  - R2-MAY2012
  - User documentation
    - Attic
  - Validation rules
  - wiki
  - XML
- E-Learning
- ePerinatologie
- Espria
- Fachshogechule Osnabruck
- Hilverzorg
- HL7 cursus
- Icare EKD
- Icare informatiebeveiliging
- IMO
- KD+
- Masterclass DCM
- Minnesota Fall 2010
- Minnesota Spring 2011

Name	Date modified	Type	Size
EHRSFM_EA_AddIn	18-2-2013 11:23	File folder	
EHRSFM_EA_AddIn.Setup	18-2-2013 11:23	File folder	
EHR-S FM R2.eap	11-3-2013 12:38	Enterprise Archite...	31.202 KB
EHR-S FM R2.ldb	11-3-2013 14:40	LDB File	1 KB
EHRS_FM_R2 (import v2.3)-full4.max.xml	10-3-2013 21:52	XML File	2.269 KB
EHRSFM_EA_AddIn (2012-nov-09).zip	9-11-2012 12:21	WinZip-bestand	1.164 KB
EHRSFM_EA_AddIn (2013-feb-06).zip	6-2-2013 12:41	WinZip-bestand	2.141 KB
EHRSFM_EA_Ad	27-1-2013 14:33	WinZip-bestand	2.128 KB
EHRSFM_EA_Ad	27-1-2013 1:21	WinZip-bestand	1.195 KB
EHRSFM_EA_Ad	27-1-2013 14:32	Windows Installer ...	1.018 KB

- **Install**
- Repair
- Uninstall
- Scan with FileCure...
- Troubleshoot compatibility
- Scan op virussen
- In quarantaine plaatsen
- Installeer in veilge modus
- Controleer reputatie in KSN
- Open with...
- WinRAR ▸
- WinZip ▸
- Restore previous versions
- Send to ▸
- Cut
- Copy
- Create shortcut
- Delete
- Rename
- Properties

EHRSFM_EA_AddIn.Setup.msi Date modified: 27-1-201 22
Windows Installer Package Size: 0,99 MB

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Click on Next to install the EHR-S FM Extension.

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Select the folder where you want to save the EHR-S FM Extension. Click Browse if you want to save this in another folder.

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Click for conformation of het installation on the Next button.

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The installation is completed. Click the close button to exit.

After installation start EA and open the EHR-S FM .eap.

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Install the MAX extension

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Installing the MAX extension

- Copy the extension to your local hard drive. Make sure EA is not running!
- Open Windows explorer and look for the folder where you copied the extension to.
- Rename the extension to .msi by removing the part ‘RENAME_TO_.

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Update the extensions

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Update the EHR-S FM and/or MAX extension

- Before installing the new release: uninstall the older version.
- Open Windows explorer and look for the folder where you copied the extension to.
- Then right-click and "Uninstall". Follow the steps the computer is asking for.
- After this: follow the steps on slide 5 & 6 Installing the EHR-S FM extension.

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Open the EHR-S FM .eap file

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Open the EHR-S FM .eap file in EA

- To browse or work on the EHR-S FM in Enterprise Architect: get the .eap file from the EHR-S FM Tool package release 1.
- Copy the .eap file to your local hard drive. Then there are several ways to open that .eap file.

1. Open Windows Explorer and look for the folder where you copied the file to. Double click on the file and Enterprise Architect will start. You will see the EHR-S FM under Recent on the Start page of EA.

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Start page of EA

Open Enterprise Architect by going to All programs

- Look for Enterprise Architect -> click on the icon of EA

- You will get the Start Page of EA. See slide 13.
- To open the .eap file on your computer go to File in the navigation of EA and choose ‘open project’. See slide 15.

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Open Enterprise Architect by going to File -> open project

- Go to ‘Browse for project’.
- Click and you will get a Windows explorer.
- Look for the folder where you copied the file to.
- Click on that file and click on ‘open’.
- You will see the package in the project browser of EA.

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In the project browser you will find the content of the EHR-S FM.

Browse and search in the EHR-S FM

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The Start Page of Enterprise Architect

Open the EHR-S FM by clicking on the project under 'Recent'

When nothing appear click right on 'view' in the navigation and then on 'Project Browser'. See next slide

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EHR-S FM R2 - EA

MDG Technology for D...

Basic - Normal

File Edit View Project Diagram Element Tools Analyzer Extensions Settings Window Help

Workspaces and Commands...
Learning Center Alt+F1
Project Browser Alt+0
Packa
Mode
More
Personal Information
Team Review Ctrl+Alt+U
Diagram Toolbox Alt+5
Diagram Filters
Diagram Layout
Pan & Zoom Ctrl+Shift+N
Element Properties Alt+1
Relationships Ctrl+Shift+2
Traceability Ctrl+Shift+4
More Element Tools
Relationship Matrix
Notes Ctrl+Shift+1
Tagged Values Ctrl+Shift+6
System Output Ctrl+Shift+8
Toolbars
Visual Style

Project Browser Alt+0
Model explorer - view and manage model structure and content

Start Page

Personal Information

Links Desktop 12:43

The Project Browser will appear on your screen.

To see the content of EHR-S FM open the Model in the Project Browser. See the next slide.

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The content of EHR-S FM in EA

Now you can browse through the content of EHR-S FM by clicking on a section, then a header, then a function. Then you will see the conformance criteria belonging to a function.

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EHR-S FM Function

Care Provision

Name	CP.4 Manage Orders
ID	CP.4
Statement	Provide the ability to manage clinical orders and results including medication, non-medication, diagnostic tests, blood products, other biologics and referrals, using order sets as appropriate.
Description	The provision of clinical care includes the need to order from a variety of treatments using order sets as appropriate as well as reviewing the results of treatment. Orders for treatments may include medications, non-medication therapies (e.g. physical therapy, special diet, immunizations, non-allopathic regimens); diagnostic care (e.g., laboratory, radiology); blood products and other biologics (e.g., blood transfusions, human growth hormones). Patients are often referred to other health care providers for more specialized diagnostic workup and/or treatment. An effective EHR-S must include support and management of these processes and associated documentation.
Example	

Example of component (function) of the EHR-S FM.

Tagged Values

Feature (CP.4 Manage Orders)

Reference.Alias	EHR-S_FM_R1.1
Reference.ChangeInfo	Modified
Reference.FunctionID	DC.1.7

Tagged Values | Project Browser | Personal Information

Ready | CP.4 Manage Orders

Tagged value of that component.

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Search the EHR-S FM

Click on the top level of the EHR-S FM

Go to ‘Edit’ in the navigation of EA, and choose ‘Model Search’. See next slide

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You will get a screen as shown on the next slide.

EHR-S FM R2 20-11-2012AG - EA

File Edit View Project Diagram Element Tools Analyzer Extensions Settings Window Help

Model Search

Search Term: Allergy Search: Simple Run Options Builder

Drag a column header here to group by that column.

Object	Type	Stereotype	Scope	Status	Phase	Created	Modified

Know you can search the EHR-S FM by putting a keyword in the field ‘Search Term’. For example ‘Allergy’ as shown.

When you do a ‘Simple ‘search, as shown in the field ‘Search’, Ea will give you an overview of all the EHR-S FM components wherein the term ‘Allergy’ is used.

Start Page Model Search

Project Browser

- Model
  - EHRS_FM_R2 (import v2.2) generated-ehrs-fm-20121115.xml
    - Overarching
    - Care Provision
    - Care Provision Support
    - Population Health Support
    - Administration Support
    - Record Infrastructure
    - Trust Infrastructure

EHR-S FM R2 - EA

MDG Technology for D... | Basic - Normal

File Edit View Project Diagram Element Tools Analyzer Extensions Settings Window Help

Model Search

Search Term: Allergy | Search: Simple | Run | Options | Builder

Drag a column header here to group by that column.

Object	Type	Stereotype	Scope	Status	Phase	Created	Modified
CP.1 Manage Clinical History	Feature	Header	Public	Proposed	1.0	10-3-2013	10-3-2013
CP.1.2 Manage Allergy, Intolerance and Adverse Reaction List	Feature	Function	Public	Proposed	1.0	10-3-2013	10-3-2013
CP.1.2#01	Requirem...	Criteria	Public	Proposed	1.0	10-3-2013	10-3-2013
CP.1.2#02	Requirem...	Criteria	Public	Proposed	1.0	10-3-2013	10-3-2013
CP.1.2#07	Requirem...	Criteria	Public	Proposed	1.0	10-3-2013	10-3-2013
CP.1.2#08	Requirem...	Criteria	Public	Proposed	1.0	10-3-2013	10-3-2013
CP.1.2#09	Requirem...	Criteria	Public	Proposed	1.0	10-3-2013	10-3-2013
CP.1.2#14	Requirem...	Criteria	Public	Proposed	1.0	10-3-2013	10-3-2013
CP.1.2#15	Requirem...	Criteria	Public	Proposed	1.0	10-3-2013	10-3-2013
CP.1.2#16	Requirem...	Criteria	Public	Proposed	1.0	10-3-2013	10-3-2013
CP.1.2#21	Requirem...	Criteria	Public	Proposed	1.0	10-3-2013	10-3-2013
CP.1.2#23	Requirem...	Criteria	Public	Proposed	1.0	10-3-2013	10-3-2013
CP.1.2#25	Requirem...	Criteria	Public	Proposed	1.0	10-3-2013	10-3-2013
CP.1.3#19	Requirem...	Criteria	Public	Proposed	1.0	10-3-2013	10-3-2013
CP.4.2 Manage Medication Orders	Feature	Function	Public	Proposed	1.0	10-3-2013	10-3-2013
CP.4.2#01	Requirem...	Criteria	Public	Proposed	1.0	10-3-2013	10-3-2013
CP.4.2.1 Medication Interaction and Allergy Checking	Feature	Function	Public	Proposed	1.0	10-3-2013	10-3-2013
CP.4.2.1#01	Requirem...	Criteria	Public	Proposed	1.0	10-3-2013	10-3-2013
CP.4.2.1#02	Requirem...	Criteria	Public	Proposed	1.0	10-3-2013	10-3-2013
CP.4.2.1#03	Requirem...	Criteria	Public	Proposed	1.0	10-3-2013	10-3-2013
CP.6.1#08	Requirem...	Criteria	Public	Proposed	1.0	10-3-2013	10-3-2013
CP.6.2#04	Requirem...	Criteria	Public	Proposed	1.0	10-3-2013	10-3-2013
CP.6.2#09	Requirem...	Criteria	Public	Proposed	1.0	10-3-2013	10-3-2013
CP.9.1#01	Requirem...	Criteria	Public	Proposed	1.0	10-3-2013	10-3-2013

Start Page | Model Search

Personal Information

Search returned 33 results | EHRS_FM_R2 (import v201... | CAP NUM SCRL

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Changing EHR-S FM components

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Changes in Sections

Opening a section and changing its contents should be done as follows:

Browse through the package until you have found the section you want to change (1).

Double click on the package of the section (1). You will get a dialogue as shown on the next slide

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- Changes can be made. In every field of the section. This works as a simple text editor. Changes can be saved by clicking OK.

- The name of the section can also be changed, but this is unlikely to happen in a current release.

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Changes in Headers

Opening a header in a specific section and changing its contents should be done as follows:

Browse through the package until you have found the section where the header (5) you want to change is in.

Double click on the package of the header (5). You will get a dialogue as shown in the next slide

Statement, Description and/ or Example can be changed in the dialogue (6). This works as a simple text editor. Changes can be saved by clicking on 'OK' (7). The name and/ or ID (8) of the header can also be changed in the 'Name field' and/ or 'ID field', but this is unlikely to happen in a current release.

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Changes in Functions

Opening a function in a specific section and changing its contents should be done as follows:

Browse through the package until you have found the section where the function (9) you want to change is in.

Double click on the package of the header (9). You will get a dialogue as on the next slide

EHR-S FM Function

Care Provision

Name	CP.1.3 Manage Medication List
ID	CP.1.3
Statement	Create and maintain patient-specific medication lists.
Description	Medication lists are managed over time, whether over the course of a visit or stay, or the lifetime of a patient. All pertinent dates, including medication start, modification, and end dates are stored. The entire medication history for any medication, including alternative supplements and herbal medications, is viewable. Medication lists are not limited to medication orders recorded by providers, but may include, for example, pharmacy dispense/supply records, patient-reported medications and additional information such as age specific dosage.
Example	

Cancel Ok

Statement, Description and/ or Example can be changed in the same way as on header level described on slide 5.
The name and/ or ID of the function can also be changed in the same way as on header level described on slide 5, but this is unlikely to happen in a current release.

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Changes in Conformance criteria

Opening a conformance criterion of a specific function and changing its contents should be done as follows:

- Browse through the package until you have found the specific function where the conformance criteria you want to change is in.

EHR-S FM Criteria

Care Provision

Function ID: CP.1.3 Criteria ID: 1 Row: 77

Criteria Text: The system SHALL provide the ability to manage a patient-specific medication list based on current medication orders or prescriptions.

☐ Conditional ☐ Dependent Optionality: SHALL

Cancel Ok

- Double click on the conformance criterion (10). You will get a dialogue as shown.
- The criteria text can be changed and works as a simple text editor.
- The Function and/or Criteria ID can be changed if relevant.
- Changes can be by clicking on ‘OK’ .

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Adding EHR-S FM components

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Adding Sections

Adding a section in a current release is not likely, but can be done for a next release. It should be done as follows:

In the project browser you click on the top level of the package of the EHR-S FM.

Click right and click on add and choose Element.

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EHR-S FM R2 20-11-2012AG - EA

MDG Technology for D...

File Edit View Project Diagram Element Tools Analyzer Extensions Settings

Start Page

Enterprise Architect Versio

Add Diagram...
Add Element...
Add Package...
Add a New Model using Wizard... Ctrl+Shift+M

Manage Projects
Open a Project File
Create a New Project
Copy a Base Project

Recent
EHR-S FM R2 20-11-2012AG
Anneke
EHR-S FM R1.1
DCM R4C (noSVN)
EANew
DCM Repository
CWZ
DCM Repository SH
PWD2
DCM Alles Anneke1

Help
Open Learning Center
Use the Learning Center
Introduction to Models
Create a Project
Server Repository
Online Resources & Tutorials
Enterprise Architect Community

Project Brow

Start Page

Extensions
Properties...
Package Control
Add
Paste Diagram...
Package Browser
Find in all Diagrams... Ctrl+U
Turn On Level Numbering
Linked Document... Ctrl+Alt+D
Documentation
Code Engineering
Execution Analyzer
Import/Export
Transform Current Package Ctrl+Shift+H
Contents
Bookmarks
Find in Project Browser...
Copy Reference
Copy Package to Clipboard
Paste Package from Clipboard
Paste Element(s) from Clipboard
Save Package as UML Profile
Set View Icon...
Move up
Move down
Delete 'EHRS_FM_R2 (import v2.2) generated-ehrs-fm-20121115.xml'
Help...

Output

System Script

Personal Information

Ready EHRS_FM_R2 (import v2.2) ... CAP NUM SCRL

Delete EHR-S FM Components

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Deleting EHR-S FM components

Deleting a section in a current release is not likely, but can be done for a next release. It should be done as follows:

In the project browser you click on the section of the EHR-S FM that you want to delete.

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Then click right with the mouse and choose delete. You will get the following question.

Be aware that all headers, functions and conformance criteria will be removed as well when deleting a section (as shown in figure X.?).

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Deleting Headers, Functions and Conformance criteria

- Deleting other EHR-S FM components like headers, functions and/ or conformance criteria is done in the same way as deleting a section.
- If a header is deleted then also the functions, as child elements of the header, will be deleted.
- If a function is deleted then the conformance criteria, as child elements of a function, will be deleted.

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Moving EHR-S FM Components

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Moving sections

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Using the Spell Checker

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- Choose Tools in the navigation
- Click on Spelling Tools (1)
- Click on Spelling Options (2). Choose your language.
- Click on Spell Check Project (3). The spell checker will check the spelling in the EHR-S FM tool project.
- Click on Spell check current package (4) when you want to check the spelling on a certain part in the EHR-S FM tool.

If the language you want is not in the Main Dictionary language, choose Help.

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Enterprise Architect User Guide

Hide Locate Back Forward Stop Home Print Options

Contents Inc

Type in the word(s) t

spelling

List Topics

Select topic: Four

Title

Using the Spell ...
Checking Text [...
Spell Checking [...
Select Spell Che...
Correcting Word...
Spelling Tools [...
Use Languages ...
Objects [Enterpri...
List of Available ...
Tools [Enterpris...
Keyboard Short...
Notes [Enterpris...
Edit Linked Doc...
Change Manag...
Edit an Item [Ent...
Main Menu [Ent...
Intermediary Lan...
Custom Templat...
Limitations of X...
Method Class [E...
Edit Linked Doc...

Search previous
Match similar wor
Search titles only

Use Languages Other Than English

Enterprise Architect is supplied with three dictionaries, for US English, Canadian English and British English. Additional dictionaries are available as a set, for download from the registered pages of the Sparx Systems website.

The dictionaries in this downloadable file enable spell checking in the following languages:

- Brazilian
- Danish
- Dutch
- Finnish
- French (Continental)
- German
- Italian
- Norwegian
- Portuguese
- Spanish and
- Swedish

Read and follow the instructions.
You will need the your registration key and/or order number, along with the email address you registered with.

Use to

- Download and install the language pack of dictionaries so that you can select another language in which to perform the spell check

How to

To download the additional language dictionary pack

Step	Action	See also
1	Access the registered user page on the Sparx Systems web site.	Registered User page

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Question?

- Discussions?
- Questions?
- Feedback?

- Mail: wgoossen@results4care.nl

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Results 4 Care B.V.

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