



HL7 Tooling Project – Status Report April 2008

Ken Lunn, NHS Connecting for Health

Ravi Natarajan, NHS Connecting for Health



Status and Plans

Software submissions

- Xml processing
- Instance editor
- MIF differencing

Planned Submissions

- Vocab tooling

Requirements

Software development

- Static Model Designer

Funding and resource



Software Submissions – XML Process

Annotation of Static HL7 Models

Production of Static Model Documentation
(tabular views)

Maintain OID catalogues

Apache license, Tomcat based

(6 months developer effort)



Software Submissions – Instance Editor

CDA aware HL7 V3 message instance editor

HL7 V3 template aware

HL7 V3 MIF2 enabled

MIF1 to MIF2 conversion

MIF validation framework

Vocabulary binding

Context-sensitive editor, V3 aware

Creates fully compliant interactions

XSLT framework to render CDA text and/or coded elements

Fully EPL compliant

(\$300K investment, plus 6 months FTE development effort internally)



Software Submissions – MIF Diff

Provides a differencing of two versions of static models

MIF2 enabled (will take MIF1 import)

Graphical interface to the difference tree, using V3 model notation

Context sensitive filtering of difference (e.g. all Acts that have changed)

Weighting of changes according to importance

Export of differences in XML

Fully bundled Eclipse RCP

Fully EPL compliant

(\$300K investment, 6 months internal



Planned Submissions – Vocab tool

Edit and maintain value sets for HL7 V3
message specifications

Versioning of vocabularies

Implements vocabulary API of the Common
Terminology Services for HL7

JBOSS and MySQL

(1+ year development effort)



Planned Submission – HL7 Schema Generator

MIF1 driven

Schema tightening

- Vocab binding
- Data type specialisations

Cross-reference generator (e.g. find all CV data types in a MIM)

- Vocab cross reference
- CMET cross reference
- Data type cross reference
- Template cross reference

(6+ months effort)



Requirements – Static Model Designer

HL7 Tooling Committee

- Technical requirements for Static Model Designer
- HL7 Nominated liaison on requirements



Software Development – Static Model Designer (Phase 1)

Visio tool replacement

MIF2 enabled

Deliver Oct 08

(\$320K planned expenditure, plus 6 months of internal effort)

Phase 2

- Integration with other tools
- Template aware
- Terminology binding
- ...



Finance and Resource

NHS Tooling team (5 staff)

Current submissions

\$300K – Instance editor

\$300K – MIF difference

>1.5 years developer effort

Planned submissions

Vocab tooling

Schema Generator

\$320K – Static Model Designer – phase 1

>\$60K – HL7 Requirements

>1.5 years developer effort

Funding needed:

- Phase 2 Static Model Designer (>\$300K)