

Table of Contents

Purpose of this document	7
Description of work	8
Introduction: Back ground information	9
Introduction: Why is this background information important?	9
Introduction: Interoperability	9
Introduction: Logical Model of the EHR	14
Introduction: Standards and standardisation	15
Introduction: What is the 'Semantic Stack'?	16
Introduction: Semantic Interoperability Artefacts: Structure and Codes	18
Introduction: Two Level Model Paradigm	20
Introduction: State of the Art Developments	21
Introduction: Ireland - Workshops and Questionnaire: Results and Analysis	24
Introduction: Summary	24
Information Architecture Reference Model	25
IA-RM: Introduction	25
IA-RM: Why is it needed	26
IA-RM: Requirements	26
IA-RM: Possible Solution Paradigms	27
IA-RM: Description	37
IA-RM and stakeholders	37
IA-RM: Summary	40
Subject Area Model	41
SAM: Introduction	41
SAM: Why are SAM's important	41
SAM: International Developments	43
SAM: Description	43
SAM: Summary	44
Tools supporting the Subject Area Model	45
Tools: Introduction	45
Tools: Why are Technical supporting Tools important	45
Tool: SAM- Artefact Editor	45
Tool: SAM-Artefact Library	47
Tool: SAM-Data Dictionary	47
Tooling: Summary: Technical supporting systems	47
Deployment: Recommendations for implementation	48
Deployment: Why is deployment important	48
Deployment: Summary	48
Governance: Framework and Tooling	49
Governance: Why is governance important	49
Summary: Governance	49
Catalogue of Standards deployed	50
Appendix: SAM: epSOS data set	53
Introduction: epSOS	53
epSOS developments	54
epSOS infrastructure	55
SAM: epSOS data set	56
SAM: epSOS coding systems	56
SAM: epSOS: SIAMM Semantic Interoperability Artefacts	60
SAM: Semantic Interoperability Artefacts and Coding Systems	65
Codes, Code sets and value sets	65
Appendix: Glossary	72
Appendix: Questionnaire	73