

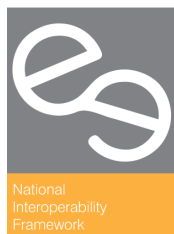
ΚΥΠΡΙΑΚΗ



ΔΗΜΟΚΡΑΤΙΑ

CYPRUS NATIONAL INTEROPERABILITY FRAMEWORK (eGIF)

Version 2.0



13 July 2017

APPENDICES

Appendix A: Overview of eGIF Technical Standards

The technical standards of the National eGovernment Interoperability Framework of Cyprus are summarized in the following table.

Table 1: Overview of eGIF Technical Standards

Category	Sub-Category	Mandatory	Recommended	Under Observation
eGovernment Applications Documentation & Development	Modelling Methods		UML v2.4.1	UML v2.5
	Process Models Exchange Schemas		XMI v2.4.2 XPDL v2.2	XMI 2.5.1 Canonical XMI Beta 2
Service Modelling	Process Modelling Methods	BPMN v2.0	UML v2.4.1 (Activity Diagrams)	UML v2.5
	Process Execution Languages		WS-BPEL v2.0	
Data Modelling	Modelling Methods	E-R Diagram (ERD)	UML v2.4.1	UML v2.5
	Data Models Exchange Schema	XSD v1.1	XMI v2.4.2 XSD v1.0	XMI v2.5.1 Canonical XMI Beta 2
	Data Exchange Formats	XML v1.0 (Fifth edition)	JSON	XML v1.1 (Second edition)
	Data Transformation	XSLT v2.0		
	Metadata Schema	Dublin Core v1.1		
	Metadata description	RDF v1.1		
	Semantic Information representation languages	XML v1.0 (Fifth edition)	OWL v2.0	XML v1.1 (Second edition) CCTS v3.0

Category	Sub-Category	Mandatory	Recommended	Under Observation
Application Development Frameworks and Programming Languages		Java SE v8 Java EE v7	.NET Framework v4.6.x JavaScript	Java ME v8
Information Presentation and Processing	Accessibility	WCAG v2.0	Mobile Web Best Practices v1.0	
	Hypertext Exchange Schemas	HTML v4.01	XHTML v1.0 HTML v5 XHTML Basic v1.1	
	Stylesheets	CSS v 2.1 XSL v1.1		
	Character Sets Encoding	UTF-8 v6.2		
	Date & Time Representation	ISO 8601		
	File Formats Recognition	MIME v1.0 (RFC 2045 – RFC 2049)		
	Document formats for Information Exchange	HTML v4.01 PDF v1.7 (Sixth edition)	HTML v5	
	Document formats for Information Processing	TXT ODF v1.2 OOXML (ISO/IEC 29500:2012, ECMA-376:2012)		
	Graphics Exchange Formats	GIF v89a JPEG v1.02	PNG (Second edition) TIFF v6.0 SVG v1.1 (Second edition)	JPEG 2000

Category	Sub-Category	Mandatory	Recommended	Under Observation
	Sound, Video and Video Streaming file formats	MPEG-4 v2 OGG (Vorbis I)	QuickTime v7.7.x	WebM
	Data Compression	ZIP v6.3.4		
Communication and Interoperability	Interoperability with Third-Party Systems	SOAP v1.2 (Second edition) WSDL v2.0	UDDI v2 UDDI v3 WS-I BP v1.2 WS-I BP v2.0 WSDL v1.1 SOAP v1.1 XQuery 1.0 (Second edition)	XQuery 3.0
	Discovery of Resources	DNS	LDAP v3 UDDI v2 UDDI v3	
	Locating of Resources	URI URL		
	Network Protocols	IP v4 ICMP v4 SNMP v3	SSH v2 BGP v4 RIP v2 OSPF v2 ESP SNMP v2	IP v6 OSPF v3 ICMP v6 RIPng
	Application Layer Protocols	FTP HTTP v1.1 SMTP POP v3 IMAP v4 (Revision 1)		
	IP Telephony		H.323 v7.1	



Category	Sub-Category	Mandatory	Recommended	Under Observation
			SIP v2.0	
	Content Delivery	RSS v2.0 Atom v1.0		
Security and Authentication	Web Services Security	WS-Security v1.1.1	WS-SecurityPolicy v1.3 WS-Policy v1.5 WS-SecureConversation v1.4	
	Data Transmission Security	TLS v1.2 HTTPS	X.509 v3 (7 th edition)	
	Encryption	AES SHA v2 XML-Enc v1.1	XKMS v2.0 TDES or 3DES	
	Authentication, Identification and Authorisation	XML Signature v1.1 WS-Trust v1.3	WS-Trust v1.4 WS-Federation v1.2 WS-Addressing v1.0 SAML v1.1 SAML v2.0 XACML v2.0 XACML v3.0 XAdES v1.4.1 CAAdES v1.8.3 PAdES [v1.1.1 (Part 1), v1.2.1 (Part 2), v1.2.1 (Part 3), v1.1.2 (Part 4), v1.1.2 (Part 5)]	openID v2.0
Standards for specific Business Sectors	Medical images exchange	DICOM 2011		
	Medical data	HL7 v2.x		HL7 v3

Category	Sub-Category	Mandatory	Recommended	Under Observation
	exchange			
	Geographical data representation and exchange	GML v3.2.1	GeoTIFF v1.8.2 KML v2.2	GML v3.3
	e-Learning content	SCORM 2004 4th edition		
	Election data exchange		EML v7.0	
	Virtualization	OVF v1.1		