

Joint Tactical Networking Center Catalog of Public Release Approved Standards



**Version 1.1
20 August 2015**

Statement A - Approved for public release; distribution is unlimited (08 September 2015)

REVISION HISTORY

Version	Description	Last Modified
1.0	Misc.: - JTNC adopted all of the standards previously approved by the JPEO JTRS Standards ICWG (i.e. public release set v1.3.3 and prior). - Added the date an item was deprecated (where applicable). Note: Public release set v1.3.3 include the following Corrigenda & Errata: - MHAL API, SCA 4.0.1	04-Feb-2014
1.0.1	Publicly released GPS Device API v2.1.4	24-Jul-2014
1.1	Updated: - Software Communications Architecture (updated from version 4.0.1 to 4.1) Misc.: - Publicly released Vocoder Service API G.711 Extension (and associated IDL file) - Deleted previously deprecated Vocoder Service API MELPe Extension	20-Aug-2015

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1 Introduction

This document lists all JTNC Standards approved for public release.

1.1 Revisions

Updates to this document are continuously released in order to update the list of Public Release Approved JTNC Standards. These updates will occur on as-needed basis, at the discretion of JTNC Standards.

1.2 Document Scope

The document is organized as follows:

Section 1, Introduction: Provides an introduction and overview of this document.

Section 2, Related Documents: Lists all documents referenced within this document.

Appendix A, Public Release Approved JTNC Standards.

Appendix B, Acronym List.

2 Related Documents

This section lists all documents related to the creation, understanding, and use of this document. Source documents are precedent documents that impose requirements on this document. Kin documents are at the same level as this document and share source documents. Referenced documents are referred to by this document but do not impose any requirements.

2.1 Source

None

2.2 Kin

None

2.3 Referenced

None

Appendix A Public Release Approved JTNC Standards

As of 20 August 2015 Table 1 lists all Public Release Approved JTNC Standards.

Table 1 Public Release Approved JTNC Standards

Count	Title	DISTR	Version	Date	Base Interface File(s)	Extension(s)	Extension Interface File(s)
Primitive APIs							
1.	Device IO API	A	1.0.2	05-May-10	DeviceIo.idl	None	N/A
2.	Device IO Control API ¹	A	1.1.1	29-Mar-07	DeviceIoControl.idl	None	N/A
3.	Device IO Signals API ¹	A	1.1.1	29-Mar-07	DeviceIoSignals.idl	None	N/A
4.	Device Message Control API	A	1.1.3	31-Mar-08	DeviceMessageControl.idl	None	N/A
5.	Device Packet API ¹	A	1.1.1	29-Mar-07	DevicePacket.idl	None	N/A
6.	Device Packet Signals API ¹	A	1.2.2	2-Apr-08	DevicePacketSignals.idl	None	N/A
7.	Device Simple Packet API ² <Deprecated 03-June-2009>	A	1.1.1	29-Mar-07	DeviceSimplePacket.idl	None	N/A
8.	Device Simple Packet Signals API ² <Deprecated 03-June-2009>	A	1.1.2	2-Apr-08	DeviceSimplePacketSignal s.idl	None	N/A
9.	JTRS CORBA Types	A	1.0.2	2-Apr-08	JtrsCorbaTypes.idl	None	N/A
10.	Packet API	A	2.0.2	2-Apr-08	Packet.idl	B. Flow Control Extension C. Empty Signals Extension	PacketFlowControl.idl PacketEmptySignals.idl
Device APIs							
11.	Audio Port Device API	A	1.3.4	29-Jul-10	Audio.idl	B. Audio Sample Stream Extension	AudioSampleStreamExt.idl
12.	Ethernet Device API	A	1.2.2	31-Mar-08	Ethernet.idl	B. Mode Configuration Extension C. Multicast Mode Extension D. Promiscuous Mode Extension E. Header Configuration Extension F. MAC Address Extension	EthernetModeConfigExt.idl EthernetMulticastConfigExt.idl EthernetPromiscuousConfigExt.idl EthernetHeaderConfigExt.idl EthernetMacAddressExt.idl
13.	Frequency Reference Device API	A	1.0.3	22-Oct-08	FreqRefDevice.idl	None	N/A
14.	GPS Device API	A	2.1.4	24-Jul-14	GpsDevice.idl	B. Latitude/Longitude Extension C. MGRS Extension	GpsLatLongExt.idl GpsMgrsExt.idl
15.	MHAL On Chip Bus (MOCB) API	A	1.1.5	26-Jun-13	None	B. MOCB GPP API Extension C. MOCB DSP API Extension	MocbDevice.idl N/A

¹ API expected to be marked deprecated in subsequent release. Usage restricted to products that implement the Ethernet Device API.

² API expected to be withdrawn from the set of Public Release Approved JTNC Standards in subsequent release.

Count	Title	DISTR	Version	Date	Base Interface File(s)	Extension(s)	Extension Interface File(s)
						D. MOCB FPGA API Extension	Target Entity Description Initiator Entity Description Platform Package Description Waveform Package Description <i>Note: All are VHDL Entity Definitions</i>
16.	Modem Hardware Abstraction Layer (MHAL) API	A	3.0	02-Oct-13	N/A	B MHAL GPP API Extension <Some content marked as Deprecated 27-August-2009> C. MHAL DSP API Extension D. MHAL FPGA API Extension E. MHAL RF Chain Coordinator API Extension	MhalDevice.idl N/A MHAL FPGA Tx Node - Multi-Depth, MHAL FPGA Rx Node - Multi-Depth FIFO, MHAL FPGA Rx Node - Single-Depth FIFO, MHAL FPGA Rx Node - RAM, MHAL FPGA Rx Node - N-Word Register, MHAL FPGA Rx Node - Strobe <i>Note: All are VHDL Entity Definitions</i> None
17.	Serial Port Device API	A	2.1.4	26-Jun-13	SerialPort.idl	B. Asynchronous Extension C. Synchronous Raw Extension D. Synchronous HDLC Extension E. Dynamic Baud Extension	SerialAsyncExt.idl SerialSyncRawExt.idl SerialSyncHdclExt.idl SerialDynBaudExt.idl
Service APIs							
18.	Timing Service API	A	1.4.4	26-Jun-13	TimingService.idl	B. External Time Reference (ETR) Extension C. Waveform Time Extension D. System Time Extension	TimingServiceEtrExt.idl TimingServiceWfTimeExt.idl TimingServiceSystemTimeExt.idl
19.	Vocoder Service API	A	1.4	26-Feb-15	Vocoder.idl	B. MELP Extension C. LPC Extension D. CVSD Extension E. SPEEX Extension F. Vocoder Audio Stream Extension G. G.729 Extension H. MELPe with DTX and VAD Extension J. G.711 Extension	VocoderMelpExt.idl VocoderLpcExt.idl VocoderCvsdExt.idl VocoderSpeexExt.idl VocoderAudioStreamExt.idl VocoderG729Ext.idl VocoderMelpDtxVadExt.idl VocoderG711Ext.idl
Uncategorized Standards							
20.	JTRS Platform Adapter (JPA) Interface Standard (IS) <i>Note: Utilizes IDL documented in SCA 2.2.2 Appendix C</i>	A	1.3.3	26-Jun-13	N/A	N/A	N/A

Deleted: 1.3.3

Deleted: 26-Jun-13

Deleted: H. MELPe Extension³ <Deprecated 31-Aug-2011>¶

Deleted: VocoderMelpExt.idl¶

Software Communications Architecture						
Count	Title	DISTR	Version	Date	Appendices & Appendices' Attachment(s)	IDL / XML File(s) ¹
21.	Software Communications Architecture (SCA)	A	2.2.2	15-May-06		
		A	2.2.2	15-May-06	Appendix A Glossary	None
		A	2.2.2A	22-Oct-08	Appendix B Application Environment Profile (AMENDED)	None
		A	2.2.2	15-May-06	Appendix C CF IDL	CF.idl, PortTypes.idl, StandardEvent.idl
		A	2.2.2	15-May-06	Appendix D Domain Profile	deviceconfiguration.2.2.2.dtd, devicepkg.2.2.2.dtd, domainmanagerconfiguration.2.2.2.dtd, profile.2.2.2.dtd, properties.2.2.2.dtd, softpkg.2.2.2.dtd, softwareassembly.2.2.2.dtd, softwarecomponent.2.2.2.dtd
	SCA Extensions ⁴	A	2.2.2	22-Dec-06	Appendix D Domain Profile	applicationdeployment.2.2.2.dtd, deploymentplatform.2.2.2.dtd, domainmanagerconfiguration_ext.2.2.2.dtd, softwareassembly_ext.2.2.2.dtd, softwarecomponent_ext.2.2.2.dtd
22.	Software Communications Architecture (SCA)	A	4↓	20-Aug-15		
		A	4↓	20-Aug-15	Appendix A: Glossary	None
		A	4↓	20-Aug-15	Appendix B: SCA Application Environment Profiles	None
		A	4↓	20-Aug-15	Appendix C: Core Framework Interface Definition Language (IDL)	CF.idl↓ CFAggregateDevice.idl CFApplicationManager.idl CFDeploymentAttributes.idl CFApplicationFactory.idl↓ CFCapacityManagement.idl CFCommonTypes.idl↓ CFComponentFactory.idl↓ CFComponentIdentifier.idl CFComponentRegistry.idl↓ CFControllableInterface.idl CFControllableInterface.idl CFDeviceAttributes.idl↓ CFDomainInstallation.idl↓ CFDomainManager.idl↓ CFEventChannelRegistry.idl CFExecutableInterface.idl CFFile.idl CFFileManager.idl CFFileSystem.idl CFFullComponentRegistry.idl↓ CFLifeCycle.idl CFLoadableInterface.idl

- Deleted: 0.1
- Deleted: 01-Oct-12
- Deleted: 0.1
- Deleted: 01-Oct-12
- Deleted: 0.1
- Deleted: 01-Oct-12
- Deleted: 0.1
- Deleted: 01-Oct-12
- Deleted: CF.idl
- Deleted: Application
- Deleted: Data
- Deleted: CFApplicationFactory.idl
- Deleted: CFApplicationTypes.idl¶
- Deleted: CFCommonTypes.idl
- Deleted: CFComponentFactory.idl
- Deleted: CFComponentManager.idl¶
- Deleted: CFComponentRegistry.idl
- Deleted: Component
- Deleted: CFDevice.idl¶
- Deleted: CFDeviceAttributes.idl
- Deleted: CFDeviceManager.idl¶
CFDeviceManagerAttributes.idl¶
- Deleted: CFDomainInstallation.idl
- Deleted: CFDomainManager.idl
- Deleted: Device
- Deleted: CFFullComponentRegistry.idl
- Deleted: CFFullManagerRegistry.idl¶
- Deleted: CFLoadableDevice.idl¶
- Deleted: Object

⁴ This document is treated as an amendment to the respective appendix

					CFAdministratableInterface.idl CFReleasableManager.idl CFAggregateDeviceAttribute.idl CFPlatformTypes.idl CFPortAccessor.idl CFProperties.idl CFPropertySet.idl CFSpecializedInfo.idl CFTestableInterface.idl SE_DomainEvent.idl SE_StateEvent.idl StandardEvent.idl	Deleted: ManageableComponent Deleted: CFManagerRegistry.idl Deleted: Release Deleted: ParentDevice Deleted: ¶ Deleted: CFResource.idl Deleted: Object Deleted: SE_DomainEvent.idl Deleted: 0.1 Deleted: 01-Oct-12 Deleted: deviceconfiguration.dtd Deleted: domainmanagerconfiguration.dtd Deleted: properties.dtd Deleted: softwareassembly.dtd
A	4.1	20-Aug-15	Appendix D: Platform Specific Model (PSM) - Domain Profile Domain Profile Descriptor Files	None		Deleted: SE_DomainEvent.idl
			Appendix D-1: PSM - Document Type Definition (DTD)	None		Deleted: 0.1
			Appendix D-1 - Attachment 1: Common Properties Definitions	applicationdeployment.4.1.dtd deviceconfiguration.4.1.dtd devicepkg.4.1.dtd domainmanagerconfiguration.4.1.dtd platformdeployment.4.1.dtd properties.4.1.dtd softpkg.4.1.dtd softwareassembly.4.1.dtd softwarecomponent.4.1.dtd		Deleted: 01-Oct-12 Deleted: deviceconfiguration.dtd Deleted: domainmanagerconfiguration.dtd Deleted: properties.dtd Deleted: softwareassembly.dtd
A	4.1	20-Aug-15	Appendix E: Model Driven Support Technologies		CFBooleanSeq.h CFBooleanSeq.idl CFCharSeq.h CFCharSeq.idl CFDoubleSeq.h CFDoubleSeq.idl CFFloatSeq.h CFFloatSeq.idl CFLongLongSeq.h CFLongLongSeq.idl CFLongSeq.h CFLongSeq.idl CFOctetSeq.h CFOctetSeq.idl CFPrimitiveSeqTypes.h CFPrimitiveSeqTypes.idl CFPrimitiveTypes.h CFPrimitiveTypes.idl CFSequenceTemplates.h CFShortSeq.h CFShortSeq.idl CFStringSeq.h CFStringSeq.idl CFULongLongSeq.h CFULongLongSeq.idl CFULongSeq.h	Deleted: 0.1 Deleted: 01-Oct-12 Deleted: Platform Specific Model (PSM) – Transfer Mechanisms and Enabling

					CFULongSeq.idl CFUShortSeq.h CFUShortSeq.idl	Deleted: None
					Appendix E-1: Application Interface Definition Language Platform Independent Model Profiles	None
					Appendix E-2: Platform Specific Model - Common Object Request Broker Architecture	None Deleted: 1
					Appendix E-2 - Attachment 1: SCA CORBA Profiles (from CORBA/e)	None Deleted: 1
					Appendix E-2 - Attachment 2: SCA CORBA Profiles (from RT CORBA)	None Deleted: 1
					Appendix E-3: Platform Specific Model - Language Specific Mappings	None
	A	4.1	20-Aug-15		Appendix F: Units of Functionality and Profiles	None Deleted: Appendix E-2: PSM - C++ Appendix E-3: PSM - Object Management Group Interface Definition Language
					Appendix F: Attachment 1: SCA Conformance Mapping	None Deleted: 0.1 Deleted: 01-Oct-12

Appendix B Acronym List

Acronym	Definition
API	Application Program Interface
CORBA	Common Object Request Broker Architecture
CVSD	Continuous Variable Slope Delta Modulation
DOD	Department Of Defense
DSP	Digital Signal Processing
DISTR	Distribution Statement
ETR	External Time Reference
FIFO	First In , First Out
FPGA	Field Programmable Gate Array
GPP	General Purpose Processor
GPS	Global Positioning System
HDLC	High-Level Data Link Control
IO	Input / Output
IS	Interface Standard
JPA	Joint Tactical Radio System Platform Adapter
JTNC	Joint Tactical Networking Center
LPC	Linear Predictive Coding
MAC	Media Access Control
MELP	Mixed Excitation Linear Predictive
MELPe	Enhanced-Mixed Excitation Linear Predictive
MGRS	Military Grid Reference System
MHAL	Modem Hardware Abstraction Layer
MOCB	MHAL On Chip Bus
RF	Radio Frequency
SCA	Software Communications Architecture
VHDL	VHSIC Hardware Description Language
VHSIC	Very High Speed Integrated Circuit