SCA Devices and Services

Set of SCA Devices that implement interfaces defined by the Joint Tactical
Networking Center (JTNC) and the Wireless Innovation Forum (WInnF).

JTNC Audio Port Device

- Supports the JTRS Standard Audio Port Device API version 1.3.4 part of the JTNC Catalog of Public Release Approved Standards version 1.0.1.
- Supports the Audio Sample Stream extension.
- SCA 2.2.2 implementation modeled and code generated with NordiaSoft SCA Architect tool.
- SCA 4.1 implementation modeled and code generated with NordiaSoft eCo Architect tool.
- Native implementation designed to be decoupled from the SCA and CORBA and be self-tested.
- Native implementation designed to be easily adapted to specific platform implementation.
- Comes with a native implementation that uses Linux Pulse Audio driver.
- UML class and sequence diagrams provided to describe the native implementation and its integration within the SCA component.
- Unit tests and functional tests provided.

JTNC Ethernet Device

- Supports the JTRS Standard Ethernet Device API version 1.2.2 part of the JTNC Catalog of Public Release Approved Standards version 1.0.1.
- Supports the Mode Configuration extension.
- Supports the Multicast Mode extension.
- Supports the Promiscuous Mode extension.
- Supports the Header Configuration extension.
- Supports the MAC Address extension.
- SCA 2.2.2 implementation modeled and code generated with NordiaSoft SCA Architect tool.
- SCA 4.1 implementation modeled and code generated with NordiaSoft eCo Architect tool.
- Native implementation designed to be decoupled from the SCA and CORBA and be self-tested.
- Native implementation designed to be easily adapted to specific platform implementation.
- Comes with a native implementation that uses Sockets and ioctl.
- UML class and sequence diagrams provided to describe the native implementation and its integration within the SCA component.
- Unit tests and functional tests provided.

JTNC GPS Device

- Supports the JTRS Standard GPS Device API version 2.1.4 part of the JTNC Catalog of Public Release Approved Standards version 1.0.1.
- Supports the Latitude/Longitude extension.
- Supports the MGRS extension.
- Must be specialized for specific GPS driver.
- Supports a GPS simulator mode.
- SCA 2.2.2 implementation modeled and code generated with NordiaSoft SCA Architect tool.
- SCA 4.1 implementation modeled and code generated with NordiaSoft eCo Architect tool.
- Native implementation designed to be decoupled from the SCA and CORBA and be self-tested.
- Native implementation designed to be easily adapted to specific platform implementation.
- UML class and sequence diagrams provided to describe the native implementation and its integration within the SCA component.
- Unit tests and functional tests provided.

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SCA Devices and Services

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Networking Center (JTNC) and the Wireless Innovation Forum (WInnF).

JTNC Timing Service

• Supports the JTRS Standard Timing Service API version 1.4.4 part of the JTNC Catalog of Public Release Approved Standards version 1.0.1.
• Supports the External Time Reference extension.
• Supports the Waveform Time extension.
• Supports the System Time extension.
  SCA 2.2.2 implementation modeled and code generated with NordiaSoft SCA Architect tool.
• SCA 4.1 implementation modeled and code generated with NordiaSoft eCo Architect tool.
• Native implementation designed to be decoupled from the SCA and CORBA and be self-tested.
• Native implementation designed to be easily adapted to specific platform implementation.
• Comes with a native implementation that uses POSIX timers.
• UML class and sequence diagrams provided to describe the native implementation and its integration within the SCA component.
• Unit tests and functional tests provided.

JTNC Vocoder Service

• Supports the JTRS Standard Vocoder Service API version 1.3.3 part of the JTNC Catalog of Public Release Approved Standards version 1.0.1.
• Supports the Vocoder Audio Stream extension.
• Supports the Speex extension.
• Supports the AMBE codec via extension.
• SCA 2.2.2 implementation modeled and code generated with NordiaSoft SCA Architect tool.
• SCA 4.1 implementation modeled and code generated with NordiaSoft eCo Architect tool.
• Native implementation designed to be decoupled from the SCA and CORBA and be self-tested.
• Native implementation designed to be easily adapted to specific platform implementation.
• Comes with a native implementation that supports Speex on Linux and AMBE using a DVSI USB-3000 dongle on Linux.
• UML class and sequence diagrams provided to describe the native implementation and its integration within the SCA component.
• Unit tests and functional tests provided.

JTNC MHAL Device

• Supports the JTRS Standard MHAL Device API version 3.0 part of the JTNC Catalog of Public Release Approved Standards version 1.0.1.
• Supports the MHAL GPP API extension.
• Supports the MHAL DSP API extension.
• Supports the MHAL RF Chain Coordinator API extension
• RF Chain Coordinator commands can be implemented by the Device or delegated to a Transceiver Device through a special interface.
• SCA 2.2.2 implementation modeled and code generated with NordiaSoft SCA Architect tool.
• SCA 4.1 implementation modeled and code generated with NordiaSoft eCo Architect tool.
• Native implementation designed to be easily adapted to specific platform implementation.
• Comes with an implementation that must be further specialized for specific transports.
• UML class and sequence diagrams provided to describe the native implementation and its integration within the SCA component.

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SCA Devices and Services

Set of SCA Devices that implement interfaces defi ned by the Joint Tactical Networking Center (JTNC) and the Wireless Innovation Forum (WInnF).

JTNC Serial Port Device

- Supports the JTRS Standard Serial Port Device API version 2.1.4 part of the JTNC Catalog of Public Release Approved Standards version 1.0.1.
- Supports the Asynchronous extension.
- SCA 2.2.2 implementation modeled and code generated with NordiaSoft SCA Architect tool.
- SCA 4.1 implementation modeled and code generated with NordiaSoft eCo Architect tool.
- Native implementation designed to be decoupled from the SCA and CORBA and be self-tested.
- Native implementation designed to be easily adapted to specific platform implementation.
- Comes with a native implementation that uses termios on Linux.
- UML class and sequence diagrams provided to describe the native implementation and its integration within the SCA component.
- Unit tests and functional tests provided.

WInnF International Radio Security Services (IRSS)

- Supports IRSS version 2.0.0.
- Supports the Bypass service.
- Supports the Infosec Transec channel.
- SCA 2.2.2 implementation modeled and code generated with NordiaSoft SCA Architect tool.
- SCA 4.1 implementation modeled and code generated with NordiaSoft eCo Architect tool.
- Native implementation designed to be decoupled from the SCA and CORBA and be self-tested.
- Native implementation designed to be easily adapted to specific platform implementation.
- Comes with a native implementation that must be adapted for specific crypto subsystem.
- UML class and sequence diagrams provided to describe the native implementation and its integration within the SCA component.
- Unit tests and functional tests provided.

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