



Zeligsoft SCA Core Framework

Out-of-the-box Software Communications Architecture (SCA) Core Framework pre-integrated with CORBA ORB and Zeligsoft CE™

Zeligsoft's SCA Core Framework enables project teams to make dramatic progress with their SCA-based Software Defined Radio (SDR) development in advance of hardware platform availability. Tightly integrated with omniORB and Zeligsoft CE — the SCA backbone development tool, Zeligsoft's SCA Core Framework provides an out-of-the-box development environment fitting any SCA R&D project.

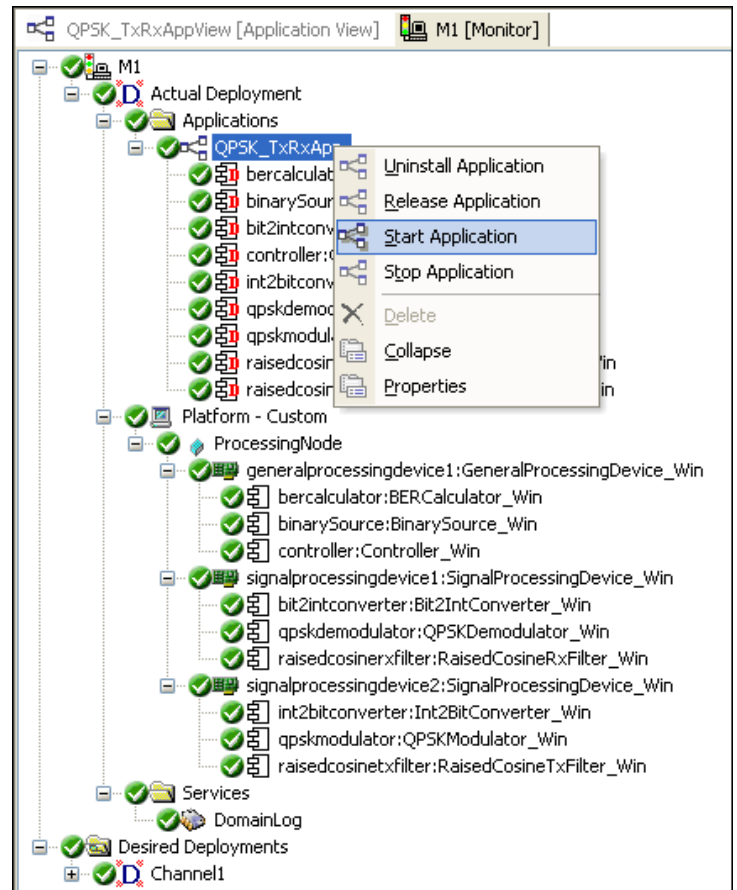
Complete and Integrated Solution

Zeligsoft's SCA Core Framework (CF) is tightly integrated with the omniORB CORBA Object Request Broker and the SDR industry's most widely adopted development tool — Zeligsoft CE. The solution provides a complete COTS tool suite and radio operating environment (OE) running on a PC host. This superior out-of-the-box experience ensures SCA standards compliance, while allowing designers to skip the time consuming task of evaluating and integrating their ORB and SCA Core Framework OE elements. Everything needed for rapid development is provided, integrated, and ready to go!

Zeligsoft offers a complete COTS development and test environment for simplified and rapid development of Software Defined Radios conforming to the SCA.

Risk Reduction from the Start

Zeligsoft's integrated SCA Core Framework and leading SCA development tool reduce risk in SCA development and improve software quality. Designers benefit from following an iterative software development process using a runtime target that is a true Core Framework on host — not a simulation. Using the ubiquitous PC host, development team members validate and test their com-



Runtime view of SCA application on PC platform

ponents running within an SCA operating environment (OE) early on and continuously throughout the development cycle, well in advance of the hardware platform being available. Execution is the pillar of risk reduction. By integrating early and executing often, designers demonstrate proof of progress, gain understanding of the system and increase their confidence in the radio architecture. With the ability to develop, test and validate on an SCA host, SCA adherence and functional quality are both improved.

Develop on Host, Migrate to Target

With Zeligsoft, bringing SCA software from development host to embedded target can be accomplished efficiently. Integration is not subject to the risks always associated with late-in-the-process, large scale integration work. SCA components have already been tested and debugged on a true SCA-compliant radio OE. In itself, this will dramatically reduce the cost of integration with the embedded target. Further helping to reduce risk, designers take the stable and proven tool set with them as they transition from development on host to any CF and ORB chosen for the final deployable product. Zeligsoft CE is used by developers to amend their deployment models for the embedded target, validate for SCA compliance, and compile SCA artifacts specific to the new platform. CE validates all system models and descriptor files for continued SCA compliance, and it enables users to control and monitor their SCA system on the embedded platform within the tool environment. Zeligsoft provides designers with a stable operating platform and tool suite that simplifies and accelerates SDR development, while ensuring SCA standards compliance.

Proven development tools and a pre-integrated Core Framework ensures a stable and predictable environment for development projects and secondary testing of waveform portability.

Features

- **omniORB included**
 - V2.6 CORBA compliant
 - Runs on both embedded targets and development hosts
- **Code generation***
 - Push-button code generation of SCA component implementations for the OE
 - *Per user license required
- **Deployment selection and enforcement**
 - Enforce only tested deployments in lab and field systems
- **Run-time monitoring**
 - Observe the run-time execution of the application deployed to target
- **Portability**
 - Seamless evolution onto actual radio hardware

Support and Professional Services

Zeligsoft offers comprehensive professional services and training for the SCA, Zeligsoft CE, Zeligsoft's SCA Core Framework, Zeligsoft Code Generator, SDR Development Suite and SCA Test.

Ordering Information

Single Zeligsoft Core Framework license ZSCF-3000