



Telcordia™  
Technologies

*Performance from Experience*

## **Telcordia™ Telephony Deviceware**

**Firmware that adds feature-rich, carrier-grade telephony to any communication device.**



An SAIC Company

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**Regardless of the device they use, consumers expect their telephony service to be flawless.**

To stay in touch, consumers are reaching for a growing array of communications devices: traditional phones, cordless and cellular phones, Web phones, palm products, and other non-PC



Internet devices. These devices are performing all sorts of cutting-edge feats, from accessing the Internet to transmitting personalized stock quotes. Consumers understand that new types of services may be delivered with varying degrees of reliability. But when it comes to

telephony, consumers expect perfection.

Whether you are a device manufacturer or reseller, and whether you simply want to give customers anytime/anywhere telephony or you want to “catch the convergence wave” by integrating telephony with Internet-based applications, you have to be able to deliver feature-rich, superior telephony services.

**Telephony Deviceware empowers your device with flexible, interoperable, dependable telephony functions.**

Our Telephony Deviceware is actually a family of software modules that can be easily and seamlessly integrated into virtually any device from any manufacturer. Our components manage all phone operations and enable you to merge the telephony and Internet worlds on a single communications device.



Telcordia Telephony Deviceware also comes with superior, end-to-end support, including:

- **Product Consulting and Engineering** – Our world-class telephony experts can assess your device, recommend ways to make it better, and determine how the Telcordia Telephony Deviceware can be customized to work seamlessly on your platform.
- **Testing and Integration** – We have industry-leading testing expertise and tools to help ensure that our software code operates to the highest standards in your system.
- **Marketing Support** – With our extensive customer base, access to global markets, and world-class reputation in the telephony field, we can help you generate solid sales leads.
- **Flexible Business Arrangements** – We bring carrier-class telephony to manufacturers of any size by accommodating our clients’ business models and offering flexible payment schedules.
- **Multilevel Support** – As part of our Architecture Planning and Design Services Suite we provide multilevel support for all levels of infrastructure planning and engineering.

**Our Deviceware modules may be realized on a variety of platform and system architectures, and support a full range of telephony functions.**

Our open, fully interoperable software components put advanced telephony functions at your customers' fingertips.

We provide a highly flexible digital signal processor (DSP) firmware solution, which is optimized for high performance and minimal system requirements. We are expanding our deviceware family all the time to accommodate emerging technologies and services. Current modules include:

<b>Voice Processing</b>	<b>Data Clients</b>	<b>Internet</b>
<ul style="list-style-type: none"> <li>• Adaptive Line Echo Canceller</li> <li>• Acoustic Echo Canceller</li> <li>• G.7XX Vocoders</li> <li>• Voice Activity Detector</li> </ul>	<ul style="list-style-type: none"> <li>• SR-3004 Bell 202 / V.23</li> <li>• V.22, V.22bis</li> <li>• V.32, V.32bis, V.34</li> <li>• V.90</li> </ul>	<ul style="list-style-type: none"> <li>• VoIP SGCP, MGCP, SIP</li> <li>• Integrated Internet Controller                             <ul style="list-style-type: none"> <li>– PPP, UDP, TCP/IP, SMTP, POP3</li> </ul> </li> <li>• E-mail Clients</li> </ul>
<b>Signaling (Domestic &amp; International)</b>		<b>VDTI Service Protocols &amp; Service Packs</b>
<ul style="list-style-type: none"> <li>• SR-3004 CAS Detector</li> <li>• SR-3004 Call Progress Signal Discriminator</li> <li>• SR-3004 Ring Cadence Discriminator</li> <li>• Call Progress Signal Generator</li> <li>• DTMF Generator/Detector</li> <li>• Dial Pulse</li> </ul>		
<b>Full-Duplex Speakerphone</b>		
<b>Continuous Line Monitoring</b>		
<b>Host API (AT/TAPI)</b>		
<b>Component Drivers</b>		<b>System Services</b>
<ul style="list-style-type: none"> <li>• Synchronous Serial Interfaces</li> <li>• DAA/Codecs</li> <li>• FLASH Memory</li> <li>• User Interface/Keypad</li> <li>• GPIO</li> </ul>		<ul style="list-style-type: none"> <li>• Type 1: On-Hook                             <ul style="list-style-type: none"> <li>– Calling Name &amp; Number Delivery</li> <li>– Dial Directory Number</li> <li>– Visual Message Waiting Indicator</li> </ul> </li> <li>• Type 2: Off-Hook                             <ul style="list-style-type: none"> <li>– Caller ID on Call Waiting</li> <li>– Call Waiting Deluxe</li> </ul> </li> <li>• Type 3: ADSI                             <ul style="list-style-type: none"> <li>– Script Interpreter</li> <li>– Feature Download Management</li> <li>– Server Display Control / Visual IVR</li> </ul> </li> </ul>
<ul style="list-style-type: none"> <li>• Multi-tasking RTOS</li> <li>• Remote Firmware Update Capability</li> <li>• System Start-up Initialization</li> </ul>		

**The benefits of Telcordia Telephony Deviceware show up on your bottom line.**

- Telephony functions developed to carrier-class specifications that ensure quality and high reliability, enabling you to avoid errors and reworking, resulting in improved profitability from fewer customer returns of devices.
- Modules that interoperate with virtually all telephony technologies and data-centric functions, means that the software can work in a variety of devices with minimal changes and thereby reduce development costs.
- Access to Telcordia experts with global reach and an unparalleled track record in the telephony industry means that complex problems can be more easily and effectively resolved, reducing the time and expense to market.
- Flexible business arrangements, such as shared-risk/shared-reward, that make superior telephony functions affordable to large and small companies alike.

**Making technology innovations work for your business...**

Telcordia™ Consulting and Engineering Services draws on a unique track record in global communications. The combination of technical and business expertise at Telcordia Technologies sets us apart as a leading consulting company to the communications industry worldwide.



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For more information about Telcordia Technologies, contact your local account executive, or you can reach us at:

**1.800.521.2673** (U.S. and Canada)  
**+ 1.732.699.5800** (in all other countries)  
**telecom-info@telcordia.com**  
**www.telcordia.com**

About Science Applications International Corporation (SAIC)

SAIC is one of the world's leading providers of systems integration, information management, data security, and network solutions. SAIC and its subsidiary, Telcordia Technologies, have an unsurpassed record in helping clients succeed with end-to-end information technology and networking solutions. For more information about SAIC, please call +1.858.826.6000 or visit the SAIC home page at [www.saic.com](http://www.saic.com).

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