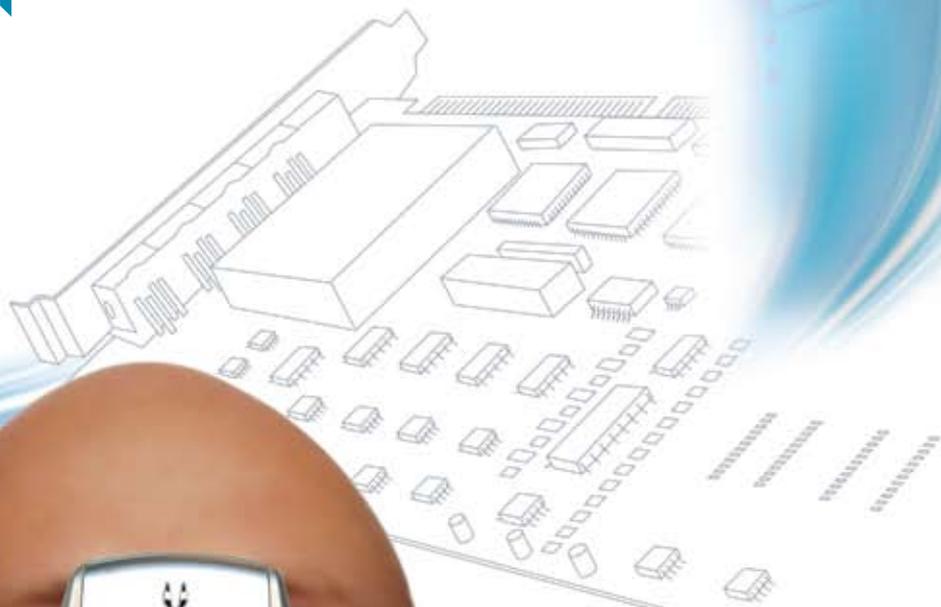# OPEN access

BOARDS AND SOFTWARE

Ready to Build

Next-Generation
Network Services

NMS COMMUNICATIONS

Start here, go anywhere.

Live, streaming two-way video. Speech-enabled call centers. VoIP conferencing. Prepaid call processing. Applications like these are capturing the hearts and wallets of telecom customers. And creating unprecedented opportunity for operators who offer the hottest new consumer and business services.

In their quest to lower lifecycle costs and boost profits, service providers have turned up the pressure on developers and equipment providers to deliver a steady stream of next-generation services.

How can you quickly develop innovative products that take advantage of converged fixed and mobile networks? And deliver revenue-ready solutions to your customers—before your competitors do?

With Open Access™ media processing and network signaling boards and software from NMS Communications—the leading supplier of media server technology to the largest equipment manufacturers in the world.

Open Access is more than a family of media processing and network signaling boards and software. It's a broad and deep arsenal of do-it-yourself products for creating enhanced voice, data, and video applications and services that gives you direct access to the right tools for the task—so you can do your job your way.

Our open, scalable, high-density building blocks provide you with the processing power and capacity you need to rapidly develop an ever-increasing array of next-generation services—now and in the future.

When you choose Open Access, you get all the expertise and experience NMS has gained in delivering enabling technology to major equipment suppliers, application developers, and system integrators for over 20 years. We provide everything you need to succeed—a broad range of products, strong technical support, powerful partnerships, and a reliable supply chain.

Open Access is ready when you are.

ONE ENVIRONMENT. ENDLESS POSSIBILITIES.

Open Access provides a single powerful development environment— Natural Access™—for building a wealth of advanced applications.

With Natural Access, you can choose from the wide range of fully supported platforms, with the processes, capabilities, and tools that make it easy to address new markets or interface with new networks. And with our universal port capability, you can configure a single port for IVR, trunking, fax, conferencing, VoIP, and video functions—eliminating the need for multiple specialized boards and giving you quick access to any feature with minimal configuration and development.

Just as important, Open Access hardware and software products are optimized for all global networks and telecom infrastructures, and provide a consistent application interface for a variety of networks and signaling environments.

THE OPEN ACCESS ADVANTAGE.

Open Access offers the broadest range of enabling products built to address cutting-edge network services, including IP conferencing, mobile and IP video, unified communications, IP Centrex, and more. Open Access also lets developers build wireline and wireless media servers from the ground up, and incorporate the new functionality and capabilities enabled by the emerging IP Multimedia Subsystem (IMS) and Fixed-Mobile Convergence (FMC) architectures.

Open Access products are available in multiple form factors—PCI, PCI Express, CompactPCI®, AdvancedTCA®, and host-based—and work seamlessly with the operating systems you already use—Microsoft® Windows®, Red Hat® Linux®, SPARC® Solaris™, and x86 Solaris.

WHY OPEN ACCESS?

- **Innovation**—Enabling technology for the next generation of network services.

- **Evolution**—Standards-based and IMS-ready components.

- **Flexibility**—Easy to control or enhance.

- **Breadth**—Signaling, media processing, and network interfaces, plus broad OS support.

- **Depth**—Leverages our experience in developing products for top telecom suppliers.

Open Access supports:

- *All network types—IP, TDM, 3G.*

- *Multiple signaling environments— SIP, SS7, ISDN, and CAS.*

- *Advanced mobile and IP video capabilities.*

- *Sophisticated audio processing capabilities and industry-standard control interfaces for automatic speech recognition (ASR) and text-to-speech (TTS) applications.*

- *One development and runtime environment across the entire product line—Natural Access™.*

- *Universal port support for multimedia sessions on a single board— complex vocoding, video, fax, conferencing, speech.*

OPEN ACCESS PRODUCTS AT A GLANCE

OPEN access↗

MEDIA PROCESSING

MG SERIES
Autonomous operation media processing blades in AdvancedTCA form factor

CG SERIES
IP and digital PSTN media processing boards in PCI, PCIe, and CompactPCI form factors

AG SERIES
Analog media processing boards in PCI and CompactPCI form factors

PACKETMEDIA™ HMP
Host media processing software

CX SERIES
High-density analog station interfaces

DEVELOPMENT ENVIRONMENT

NATURAL ACCESS
Modular development and runtime environment with APIs offering a variety of capabilities:

° **Fusion** — VoIP telephony APIs for developing standards-based solutions

° **Universal Speech Access** — APIs for easy access to MRCP-based speech resources

° **Video Access** — Application toolkit for mobile and IP video applications

° **NaturalConference** — Sophisticated conferencing functionality

° **NaturalFax** — Network-based fax service

NATURAL ACCESS MX
Supports Natural Access functions on the MG Series in an autonomous, client/server environment

NETWORK SIGNALING

TX SERIES
Network signaling boards for SS7 applications in PCI, PCIe, and Compact PCI form factors

SS7 SOFTWARE
Full SS7 protocol stack—TDM or IP (SIGTRAN)—plus support for BICC

SIP SOFTWARE
Simplified development of SIP user agent applications

ISDN and CAS
ISDN and CAS signaling software for CG and AG boards

THE NMS DIFFERENCE

° **Proven performance.** Our products meet the highest standards of performance and have received telecom approvals in more than 100 countries. Plus, they satisfy stringent new environmental regulations like RoHS and WEEE.

° **Comprehensive support.** Open Access Technical Services give you direct access to NMS support engineers—by web, phone, fax, or in person—for fast, professional problem resolution. And we offer technical support around the world and around the clock.

° **Powerful partnerships.** NMS has formed strong technology, integration, and industry partnerships with organizations like the PCI Industrial Computer Manufacturers Group (PICMG) and with leading speech vendors, integrators, and distributors. We leverage the entire telecom ecosystem to provide ready access to the latest technology, so you can concentrate on what you do best—building solutions designed to generate revenue.

° **Efficient supply chain management.** You can count on NMS for reliable, predictable product delivery. Our web-based, real-time order status gives you instant access to all the information you need to plan your workload and make the most of your resources. You get the products you need, when you need them.

UNIFIED COMMUNICATIONS

Open Access is the foundation for innovative messaging services that can range from simple voicemail, to video mail, to unified communications. Open Access delivers the technology for developing highly sophisticated unified communications that empower users to collaborate using real-time information and processes.

MOBILE AND IP VIDEO

Live, streaming, bidirectional video and mobile entertainment are revolutionizing person-to-person communications. Open Access offers you the leading-edge solutions you need to deliver multimedia services in today's and tomorrow's networks.

CONTACT CENTERS

Media-intensive applications like interactive voice recognition (IVR) and other speech-enabled applications are critical to contact center productivity. Open Access supports IVR functions with simultaneous message play/record, automatic call handling, conferencing, call monitoring, call recording, fax, TTS, and ASR.
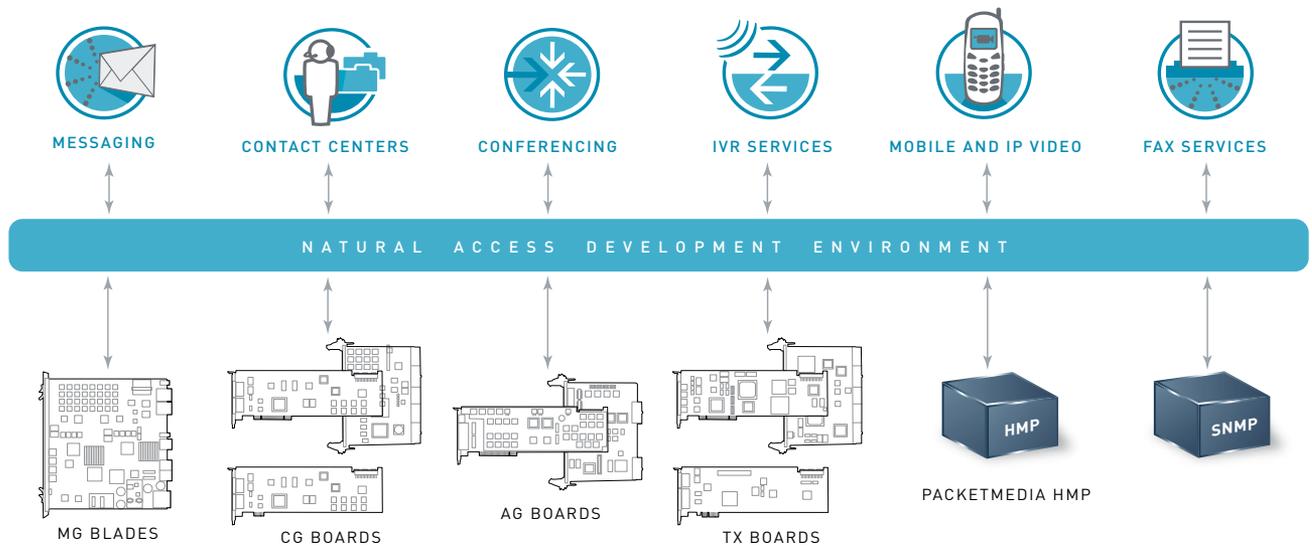
CONFERENCING

Real-time, multi-party audio conferencing delivers benefits to numerous organizations by providing a simple, cost-effective communication and collaboration method. Open Access offers a comprehensive range of conferencing features including support for large conferences and complete control of speakers and listeners, along with independent per-channel control of features such as volume, echo cancellation, DTMF, and tone clamping.

NETWORK SERVICES

Open Access provides powerful SS7 platforms for carrier-grade network service applications like prepaid calling, network call routing, and short message service (SMS). NMS's SS7 solution also permits the scaling of voice service platforms to support large numbers of trunks, which translates to larger user populations and increased revenues.

OPEN ACCESS IN ACTION

Developers around the world already rely on Open Access to build enhanced services and develop breakthrough multimedia applications. NMS continually updates Open Access to include the latest digital signal processing technologies, advanced network signaling protocols, and powerful software tools. So you can focus on speeding innovative applications to market.

| MESSAGING | CONTACT CENTERS | CONFERENCING | IVR SERVICES | MOBILE AND IP VIDEO | FAX SERVICES |

NATURAL ACCESS DEVELOPMENT ENVIRONMENT

MG BLADES   CG BOARDS   AG BOARDS   TX BOARDS   PACKETMEDIA HMP

Open Access boards and software include all the functionality you need in a modular framework—powerful media processing for voice, multimedia, and video; call and session control; scripting services; switching, event and error handling; and board-level configuration, monitoring, and testing.

ABOUT NMS COMMUNICATIONS

For more than 20 years, NMS Communications has been developing innovative technology to help the world's leading application developers, network operators, equipment providers, and system integrators grow revenue, increase profits, and build competitive advantage.

Drawing on our deep experience and core strengths in media processing, networks, and carrier-grade systems, we provide products and services designed to enable new mobile voice, data, and video applications.

NMS products are built on unique, open technologies and leverage strategic relationships with application developers, network integrators, and OEMs.

NMS has a proven track record of technology innovations that have advanced the growth of the global communications industry. These include the industry's first complete and open IP/PSTN media server, the first complete and open IP gateway, and the first multimodal voice and data system for enhanced communications services.

NMS is headquartered in Framingham, Massachusetts, with offices around the world and products deployed in 100 countries.

To learn more, go to www.nmscommunications.com or call us at +1 508 271 1000, or +l 800 533 6120 in North America, and say "Sales."

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