

Security and reliability in an unpredictable world

Nokia Siemens
Networks



Military Next Generation Network solutions from Nokia Siemens Networks





Building the next generation together

For most organizations that own or manage carrier-class voice and data networks, the long-term approach to reducing complexity and cost is to migrate existing infrastructures to an integrated, converged network environment.

Even for standard telecommunications systems, this process requires an experienced migration partner who understands the complexities of large networks, and can provide smart solutions that make the most of any given budget. But for systems that also need to support the unique military functions and security features required by government defense agencies, it takes a special kind of technology partner to deliver a solution that you can trust every step of the way.

Our offering at a glance

Nokia Siemens Networks Military Next Generation Network (Mil NGN) solutions are the latest result of a 60-year collaboration with the United

States Army and over 50 other defense and security forces worldwide. They offer a unique combination of

- a vendor-independent VoIP migration path through an overlay approach
- a complete end-to-end solution based on commercial-off-the-shelf products
- government-specific features through customized software
- sophisticated bandwidth management capabilities to assure enhanced real-time communications under all network conditions including stress and overload
- a true converged network topology for voice, video and data
- full scalability for base, post, camp and station installations
- full interoperability in ETSI and ANSI environments

A migration strategy that puts you in control

Because each of our customers has different priorities, schedules and working practices, we have designed our Mil NGN solutions to provide maximum flexibility and choice at every stage.

The key to this flexibility is a set of core solution components that can run TDM and IP-based services in parallel within any multi-vendor network environment. This enables an overlay approach to your voice communication project, providing maximum protection for your existing investments, a vendor-independent upgrade path and complete control over the scale and timing of each step in the process.

Operationally, it also allows you to maintain an interface with allied organizations, no matter whether their systems are legacy or NGN.

A new global standard for Government communications
From 2003 to 2007, Nokia Siemens Networks was one of the core consultants on the US Government Voice over IP Studies project, helping to develop the technical specifications for their future communication infrastructure modernization programs.

Our close co-operation with the Defense Information Systems Agency (DISA), its Joint Interoperability Test Command (JITC) and other US Government agencies means that you can rely on Nokia Siemens Networks Mil NGN solutions to meet all your key network upgrade requirements, including:

Real-time services Using a combination of Nokia Siemens Networks hiQ8000 soft-switch, trunk/access gateways and new IP devices, we can satisfy all the specific session control, switching and migration requirements for IP-based voice, video and other real-time services. At the local level, we will also upgrade your current data-only LANs to maximum-strength robust LAN configurations that can support these new converged services.

Military-specific functionality and security The hiQ8000 incorporates Assured Service Admission Control software to protect mission-critical communication, and we provide border controllers with dynamic firewall capabilities to control traffic between local and wide area networks. We also provide the highest levels of security and reliability through information assurance, network overload protection and round-the-clock support.

Scalability Our solutions address the requirements both of the local network nodes (greenfield builds or legacy upgrades) and the wide area network backbone (usually a legacy upgrade) with the same core products. This gives you greater flexibility both in budgetary terms and in terms of upgradeability.

Unified Communication Capability (UCC) Looking ahead, the approved Mil NGN specifications make provision for a wide range of advanced functions and services. This means that with a Nokia Siemens Networks solution in place, you will have a future-proof platform to support SIP-based Voice/Video Conferencing, Presence Awareness, Collaboration Tools, Voicemail and other Unified Communication Capabilities.

Experience and qualifications you can trust
Nokia Siemens Networks is widely recognized as a world leader in the design, implementation, operation and support of advanced telecommunications solutions for defense organizations, security authorities and other government departments around the world. For customers including NATO and the governments of Germany, Finland, Egypt, India, Portugal and the USA, we have delivered a broad range of complete turnkey solutions using both in-house and third-party technology.

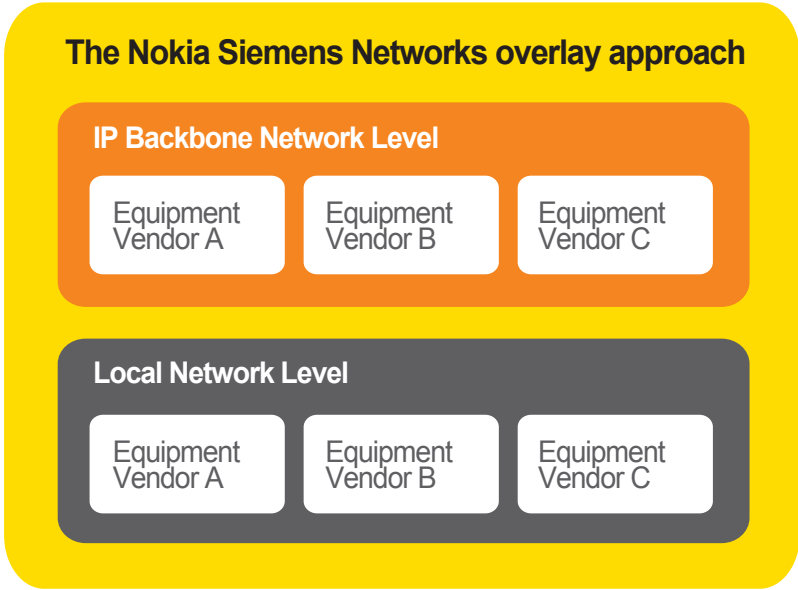
These solutions are supported by a dedicated laboratory infrastructure, and are implemented by specialists who have undergone extensive screening and background checks to maintain the highest security and quality standards. And at the

individual project level, all team members benefit from customized training programs and have had long experience of working in defense environments.

A complete turnkey solution
In addition to our core technical competence in Mil NGN systems, we offer a complete end-to-end product portfolio covering wireline, wireless and Ethernet technologies. Together with our worldwide leading global service organization and designated partners, we can also provide all system integration, implementation, civil works and ancillary services as fully integrated end-to-end solutions, tailored to each customer's exact requirements.

We can draw on the expertise of our global Managed Services organization, which currently helps manage networks serving more than 130 million subscribers worldwide.

Combining this expertise with our global customer team, delivery and support capabilities, Nokia Siemens Networks is in a uniquely strong position to help your organization migrate to the next generation of networking technology, while retaining all your customized functionality and the required levels of availability, interoperability and security.



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