

# First-class multimedia services with SURPASS hiQ 8000

Nokia Siemens  
Networks



## Your customers

want anywhere, anytime services, whether to achieve critical business goals or to simply say hello to a friend. They demand a high level of reliability from the services they use, knowing that being connected is their key to success.

## Your business

wins with innovative, reliable services that keep customers loyal. SURPASS hiQ 8000 gives you the edge by enabling the delivery of new services and applications, allowing you to compete successfully and make your business grow.

## Your network

has built its reputation on reliability, performance, and service. As your network moves from separate to converged multimedia services, you can successfully manage the transition using SURPASS hiQ 8000 for carrier-grade reliability in both hardware and software.

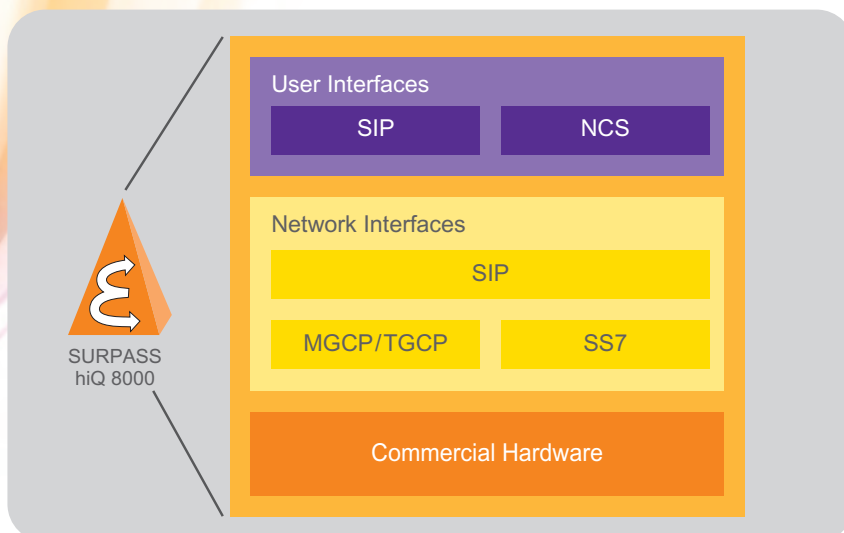
## Highlights at a glance

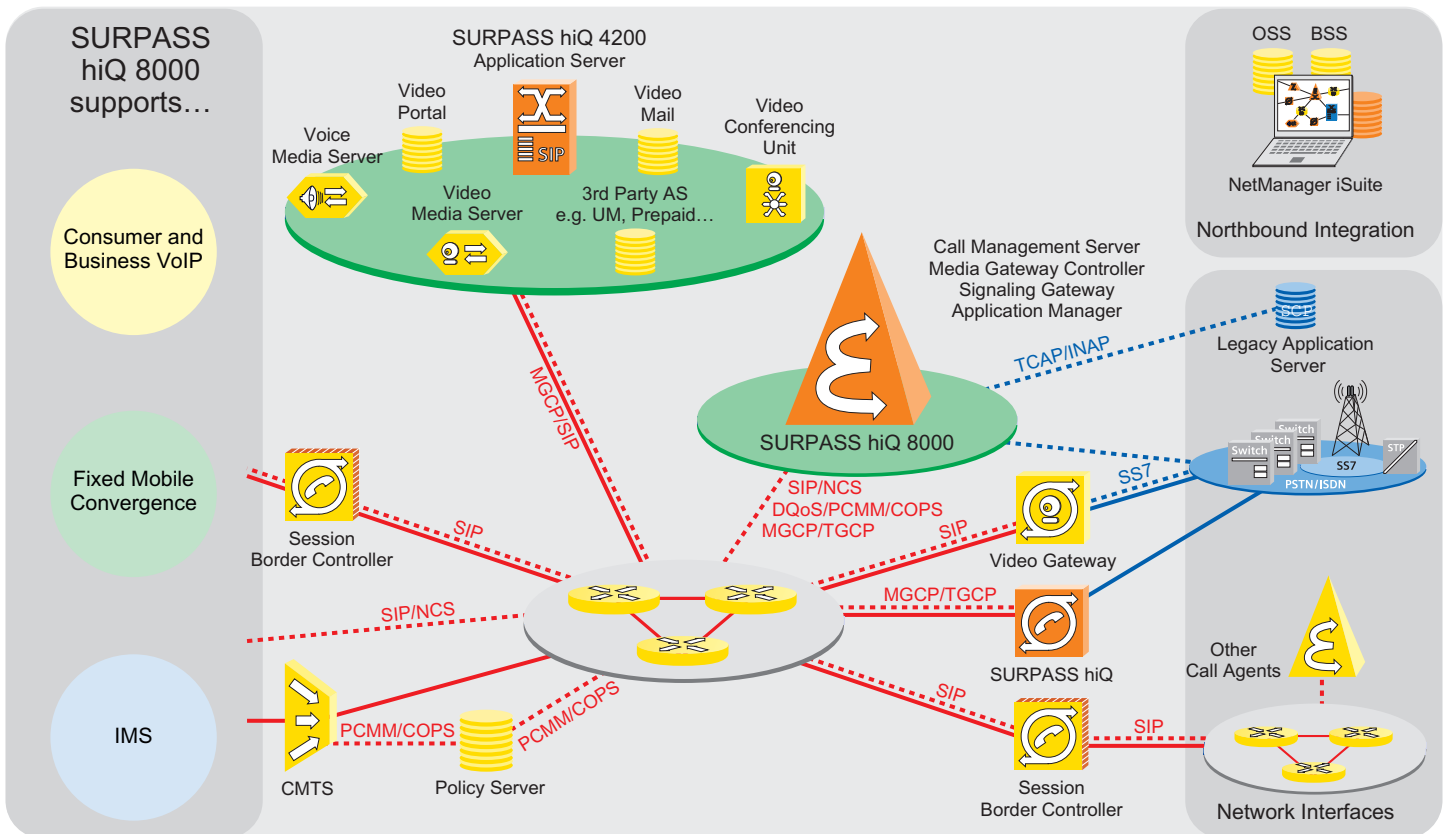
SURPASS hiQ 8000 is a best-in-class product, providing an integral part of the Consumer and Business VoIP solution and featuring Fixed Mobile Convergence and IMS. SURPASS hiQ 8000 provides carrier grade call and media gateway control capability for interconnection of multimedia services between IP networks – wired and wireless – as well as IP- and TDM-based networks. At the heart of SURPASS hiQ 8000 is Nokia Siemens Networks' patented Universal Call Engine, which provides support to multimedia applications for connection control, protocol mediation, billing, authentication, authorization, and services. SURPASS hiQ 8000 is PacketCable and Euro-PacketCable qualified. It utilizes open commercial hardware platforms, allowing it to take advantage of continuous technology improvement. SURPASS hiQ 8000 is currently deployed in major service provider networks worldwide, with a proven track record for reliability and service delivery.

## Key features

SURPASS hiQ 8000 is a best-in-class element of any Next Generation Network solution. It has achieved this status with a significant and growing list of customers because of:

- Carrier Grade reliability (Five 9's) achieved via cluster software and the Siemens-Fujitsu Resilient Telco Platform
- An Active/Active node configuration designed to handle 99.99 % of call load in case of failover
- A protocol-agnostic universal call engine that provides any-to-any signaling inter-working





SURPASS hiQ 8000 supports...

Consumer and Business VoIP

Fixed Mobile Convergence

IMS

### Key features continued

- It acts as an SIP back-to-back user agent providing capabilities for:
  - SIP user agent (client and server)
  - SIP proxy server
  - Location services
  - SIP registrar
- It is a PacketCable qualified Call Management Server
- It is a PacketCable qualified Media Gateway Controller
- Ability to do mass provisioning of subscribers via SOAP/XML
- An integrated SS7 Signaling Gateway obviating the need for external signaling gateways
- Support for CALEA and Lawful Intercept regulatory requirements
- Emergency calling service that allows for routing based on calling location or rate area
- Sigtran, ENUM, IP-Peering, H.248

### Major benefits for carriers

Today SURPASS hiQ 8000 has earned a respected position in major service providers' networks worldwide. Nokia Siemens Networks' investment in building reliability into SURPASS hiQ 8000 gives service providers confidence that the services they sell today will create customer loyalty into the future. But it is not only reliability that counts; it is also the robust capabilities of the hiQ 8000 that make it a best-in-class product for primary line service to

your customers. SURPASS hiQ 8000 has been designed from the start to consider service provider requirements for security, lifecycle costs, and scalability and subscriber management.

It does so by:

- Providing secure billing storage for 7 days' worth of billing records
- Having open interfaces published that allow customer development of web portals and provide integration of third party OSS/BSS platforms
- Built-in security using IPSEC, secure file transfers, and continual operational hardening via security scans through all phases of product development and solution integration
- Mass provisioning utilities that enable service providers to reliably add thousands of subscribers to their network every day

### Features and advantages – a closer look

SURPASS hiQ 8000 is designed to run on commercial hardware in order to capitalize on technology advancements and economies of scale. This proven flexibility allows SURPASS hiQ 8000 to fit with service provider network and operational requirements. Operational hardening, secure billing systems, and mass provisioning capabilities help lower

the life-cycle costs. And as part of the Nokia Siemens Networks worldwide good citizen initiatives, SURPASS hiQ 8000 will be compliant with EU directives on "Removal of Hazardous Substances". Flexibility in design and architecture has made SURPASS hiQ 8000 the pick of service providers worldwide. The platform continues to grow in capability in order to meet the needs of a wide range of network operators. This includes capabilities for:

- Simultaneous support of SIP and NCS subscribers
- Inter-working between DQoS and non-DQoS Packet subscribers for Cable Operators who are moving to DQoS environments
- Providing MGCF in IMS architectures
- Supporting ANSI and ETSI protocols for SS7, ISUP, AIN, IN
- Implementing important extensions to the SIP protocol necessary for IMS and Fixed Mobile Convergence architectures

Manage the future challenges by providing reliability in your service offerings along with a rich offering of multimedia services based on a product with a proven track record and best-in-class status – SURPASS hiQ 8000.