» Multi-service provisioning platform «

Highlights at a glance

The SURPASS hiT 70xx series enables true multi-service provisioning and meets the needs of tomorrow's converged networks. It is a cost-effective platform that covers the whole range of network applications required for the regional and metro core. SURPASS hiT 7070 has been optimized for both packet and traditional TDM traffic.

Key features

- Non-blocking 160G@VC-4 and nx10G@VC-12 switching granularity
- Integrated packet fabrics (Ethernet, RPR)
- Multi-service platform: 2M, 34/45M, 155M, STM-1/4/16/64, 40G, 10/100BT, GbE, 10 GbE
- GFP (Generic Framing Procedure) mapping, LCAS and support of virtual concatenation for optimal scalability of Ethernet services
- Support of concatenated services (VC-4-4c, VC-4-16c, VC-4-64c)
- A variety of STM-64 interfaces, including WDM variants
- Extensive protection mechanisms (SNCP, MSP, BSHR, hardware) including RPR traffic steering

SURPASS hiT 7070

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Major benefits for carriers
- Increased revenue from new services
- Significant OPEX and CAPEX reductions
- Seamless integration into the existing network infrastructure
- Full integration into Siemens' best-in-class network management system (TNMS)

Increased revenues from new services
SURPASS hiT 7070 gives carriers a unique competitive advantage by transporting flexible Ethernet services using reliable SDH technology. Ethernet services can be offered with carrier-grade quality as well as best effort service. SURPASS hiT 7070, maximizes the revenue to be gained from existing capacity and opens new revenue streams, while keeping investments low.

Significant operational and investment cost reductions
SURPASS hiT 7070 is highly scalable: It allows the operator to start with a basic configuration at lowest price and cost-efficiently upgrade the system in-service step by step. Not only is the bandwidth scalable, but also the number and type of services, bringing all the flexibility the carriers need in today's telecommunication market. It prepares the operator's networks for future requirements, allows business-driven growth and assures early time-to-market.

Seamless integration into the existing network infrastructure
SURPASS hiT 7070 protects the installed SDH investment and maintains the operator's TDM services and revenue.

Full integration into Siemens TNMS
SURPASS hiT 7070 is fully integrated into Siemens' best-in-class TNMS network management system, which provides end-to-end administration, performance monitoring for the converged next generation SDH network, improving operating efficiency and simplifying network operations.

Technological advantages
SURPASS hiT 7070 can be deployed as an UHC feeder, a terminal or add-drop multiplexer, a local cross-connect or a multi-ring. It also offers:
- Flexible and scalable links through use of GFP and LCAS

- Multipoint-to-multipoint connections and aggregation via an integrated Layer 2 switch to build VLAN's
- RPR for metro access where ring topologies dominate
- Cost-efficient Metro WDM and DWDM backbone feeding
- Carrier services such as TDM leased lines, VLAN, VPN application, SAN and clear channels
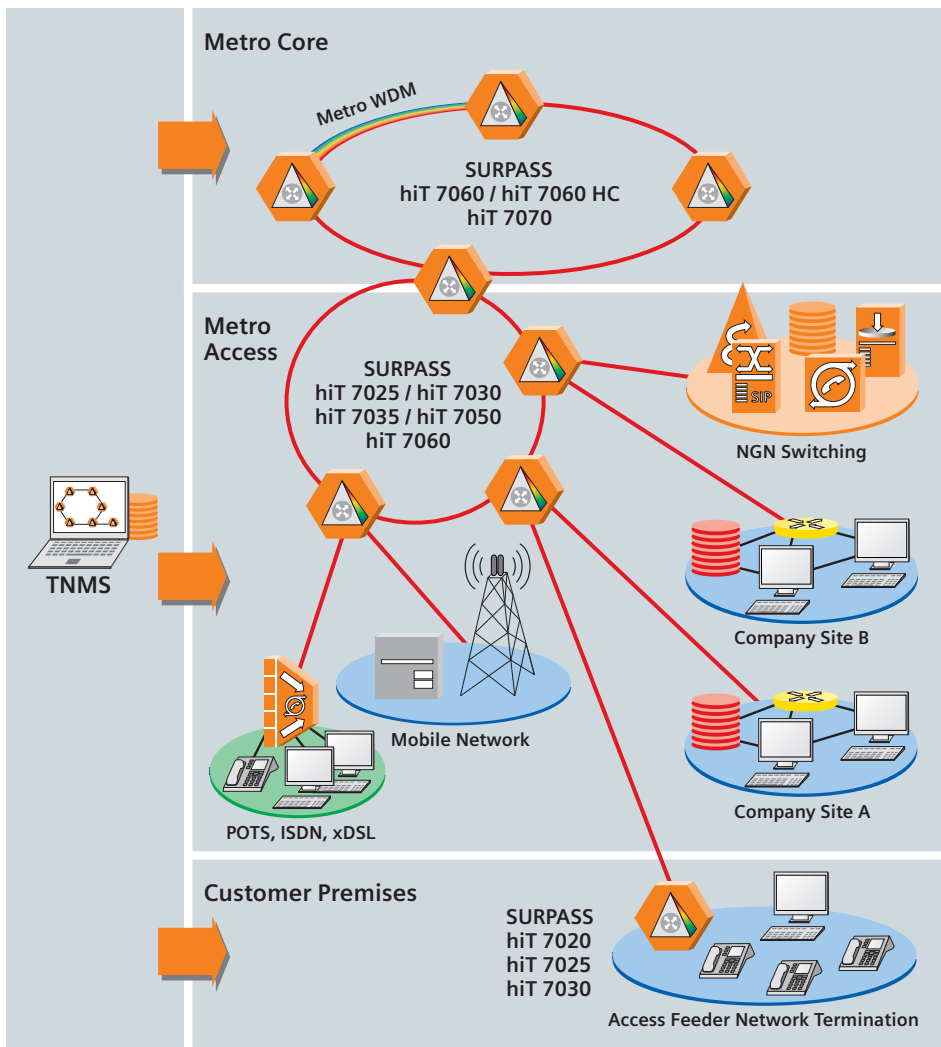
Designed with the future in mind
SURPASS hiT 7070 allows carriers to scale into the future by upgrading their switching matrix capacity and line rates. Moreover, it features trend technologies like Ethernet Layer 2, RPR and ASON.

Abbreviations
ASON	Automatic Switched Optical Network
LCAS	Link Capacity Adjustment Scheme
MSP	Multiplex Section Protection
MS-SPRing	Multi-Section Protection Ring
RPR	Resilient Packet Ring
SNCP	Sub-Network Connection Protection

SURPASS hiT 7070 helps carriers significantly cut costs, increase revenue through more efficient and new service delivery, and quickly adapt to customers' demands. This makes SURPASS hiT 7070 a key investment for profitable and future-proof metropolitan networks.

Metro Core

Metro WDM

SURPASS
hiT 7060 / hiT 7060 HC
hiT 7070

Metro Access

SURPASS
hiT 7025 / hiT 7030
hiT 7035 / hiT 7050
hiT 7060

NGN Switching

TNMS

Company Site B

Mobile Network

Company Site A

POTS, ISDN, xDSL

Customer Premises

SURPASS
hiT 7020
hiT 7025
hiT 7030

Access Feeder Network Termination