ERICSSON PROVIDE THE 4TH GENERATION OF IP NETWORKING

The 4th Generation of IP Networking demonstration on display in the Ericsson Hall 6 at Mobile World Congress (MWC) shows how operators will evolve their packet and service infrastructure to connect the Networked Society.

By using the products and solutions included in the demonstration, operators can upgrade critical parts of their network to establish a differentiated, competitive advantage in the race to connect 50 billion devices by 2020. The 4th Generation of IP Networking provides simple, smart and scalable solutions to address mobile, fixed and converged operators’ greatest challenges: offering new services while lowering costs. The 4th Generation IP Network will allow operators to change their business model to compete profitably in the expanding broadband marketplace.

The 4th Generation of IP Networking is one corner-stone of Ericsson’s overall network vision for the Networked Society. It has the following characteristics:

- Simple: providing superior performance and reduced costs by optimizing today’s over-layered networks
- Smart: increasing visibility and control of today’s fast-changing data flows
- Scalable: increasing bandwidth, handling billions of new devices and dealing with the complexity of massive increases in signaling demands

INTRODUCING A COMPLETE PORTFOLIO FOR 4TH GENERATION IP NETWORKING:

Ericsson will show how its next generation of products and solutions will implement the 4th Generation of IP Networking. Included in this next generation portfolio will be:

- Smart Services Router (SSR)
- Evolved Packet Gateway (EPG)
- Next-generation Serving GPRS Support Node–Mobility Management Entity (SGSN-MME)
- IP Transport NMS (Network Management System)
- MINI-LINK SP (Smart Packet) and PT (Packet Terminal)
- SPO 1400 (Smart Packet Optical) portfolio
- Deep Fiber Access solutions
Integration into the overall Ericsson network vision:

The 4th Generation IP Networking demonstration and portfolio are major components in Ericsson’s integrated mobile broadband and fixed broadband and convergence offerings. For example, the 4th Generation IP Networking backhaul solution MINI-LINK SP is also integrated into the new Ericsson AIR (Antennae Integrated Radio) demonstration. AIR enables the capacity and coverage required to expand mobile broadband service capacity and coverage to billions of users worldwide. In addition, the Evolved Packet Gateway will integrate smoothly with Ericsson’s LTE/HSPA product line to enable operators to deliver 4G mobile broadband networks which scales to meet the demands of the Networked Society.

NEXT GENERATION PRODUCT DETAILS

Evolved Packet Gateway

The Evolved Packet Gateway (EPG) is Ericsson’s high-end complement extension to its market leading mobile packet gateway products, designed to support massive mobile broadband rollouts. EPG is a key application that will:

- Run on the new high-capacity SSR with proven mobility software
- Enable mass adoption of mobile broadband with IPv6, deep packet inspection and multiple bearers per user
- Scale in the signaling dimension to support high volume machine-to-machine (M2M) and smartphone deployments during the ramp up to 50 billion connected devices

The EPG provides the capacity and applications integration operators need to scale their 3G and 4G(LTE) networks to win market share in the competitive mobile broadband market.

Next-generation SGSN-MME

The SGSN-MME MkVIII represents the on-going evolution of Ericsson’s market-leading SGSN-MME product and proven software; it provides:

- Very high scalability and processing power for transaction processing and signaling
- A compact cost-effective footprint for reduced operating costs
- Triple access capabilities for 2G/3G/LTE networks

The SGSN-MME MkVIII demonstrates Ericsson’s commitment to developing class-leading products capable of meeting the control plane challenges faced by mobile operators and increasingly sophisticated user devices and applications.
Smart Services Router

The Smart Services Router (SSR) is Ericsson's next generation router that scales in multiple dimensions:

- Multi-application processing: video (caching), mobility (mobile gateway), business and residential services with powerful DPI and policy enforcement.
- Subscribers/Devices: Scalability in subscribers, signaling, and number of applications, combined with flexible subscriber management.
- Capacity: 16 Tbps system with 400 Gbps full-duplex slots, smoothly upgradeable in a grow-as-you-need manner.

Operators deploying the SSR will recognize new revenue opportunities through rapid deployment value-added services and user experience optimization. They can also reduce operational costs through functional consolidation, unified management, and low energy consumption.
MINI-LINK SP and MINI-LINK PT (fiber and/or microwave solutions)

The new MINI-LINK SP and MINI-LINK PT expand Ericsson’s market leading mobile backhaul solution with an all packet solution. It integrates microwave and fiber transport into a single platform with:

MINI-LINK PT
- Lowest cost, all-outdoor radio and transport for high capacity hop configurations
- High capacity links to connect 2G, 3G and 4G (LTE) base stations
- All packet transport

MINI-LINK SP
- Media flexible backhaul using fiber & microwave
- All packet transport, switched or routed
- Up to 10Gb interfaces
- Possibility to combine with MINI-LINK PT for Microwave backhauling
- Common network management solution across all the MINI-LINK family
The Ericsson Smart Packet Optical 1400 Portfolio

Ericsson continues to rollout its Packet Optical Transport System evolution vision by introducing the Smart Packet Optical (SPO) 1400 (1410 and 1460) family with:

- Compact, low power nodes suitable for service delivery and traffic aggregation
- Integrated TDM, packet and DWDM for efficient cost, power and management
- Ethernet and MPLS-TP simplify packet networking using standard & familiar transport constructs
- Carrier grade protection & restoration for TDM, packet and DWDM ensure service.

All three components of the 4th Generation IP Networking transport solutions (MINI-LINK, SP, PT and Ericsson SPO) use a common management system. All three are powered by a common Ericsson Transport operating system ensuring feature parity and maximum interoperability throughout their lifecycle.

SPO 1410

SPO 1460
Deep Fiber Access

Ericsson's Deep Fiber Access market-leading equipment portfolio provides a simple, smart and scalable path forward for converged next generation IP services. The Ericsson GPON solution reduces costs for operators deploying FTTX with:

- World’s highest density of 14,000 FTTH subscribers per single chassis
- Integrated TDM Gateway (ITG), enabling a converged platform for packet and TDM services across fixed enterprise and mobile applications
- IP service aware architecture ensuring the best quality of experience via distributed traffic management architecture.

The Ericsson EDA 1500 GPON system density increase and application software can be cost-effectively implemented for all deployed systems and can also be used for Heterogeneous Network (HetNet) backhaul.

EDA 1500 with 16-port OLT Board
IP Transport NMS

IP Transport Network Management System (IPT-NMS) unifies all 4th Generation portfolio elements under a common, multi-layer (0-3, IP, Ethernet, SDH, CES, WDM, MPLS-TP), multi-domain (Broadband Access, Microwave, Optical, Edge) Network Management System. With a single network view and fully integrated operations, administration and maintenance (OAM), smoother network evolution is enabled for SDH-to-packet, mobile backhaul, and the building of IP and Ethernet packet networks. IPT-NMS enhances operations with:

- Streamlined packet service provisioning, across multiple layers and domains
- A single, multi-visual (Physical, logical, graphical, hybrid) view and a fully integrated O&M
- Comprehensive Packet feature set for both Transport and for VPN environments alike

Ericsson’s IPT-NMS combines best of breed feature sets that were previously available in separate Packet and Transport solutions. The product which will be displayed at Mobile World Congress is inherently linked to the simplification, de-layering and operational convergence of packet and transport networks.
Ericsson is the world’s leading provider of technology and services to telecom operators. Ericsson is the leader in 2G, 3G and 4G mobile technologies, and provides support for networks with over 2 billion subscribers and has the leading position in managed services. The company’s portfolio comprises mobile and fixed network infrastructure, telecom services, software, broadband and multimedia solutions for operators, enterprises and the media industry. The Sony Ericsson and ST-Ericsson joint ventures provide consumers with feature-rich personal mobile devices.

Ericsson is advancing its vision of being the “prime driver in an all-communicating world” through innovation, technology, and sustainable business solutions. Working in 175 countries, more than 90,000 employees generated revenue of SEK 203.3 billion (USD 28.2 billion) in 2010. Founded in 1876 with the headquarters in Stockholm, Sweden, Ericsson is listed on NASDAQ OMX, Stockholm and NASDAQ New York.

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