
ERICSSON TRIPLES HSPA UPLINK CAPACITY

- Uplink speed increasingly important as social media services and cloud solutions drive data upload stream
- Unique combination of technologies triples HSPA uplink capacity, greatly improving user experience for content uploading
- No need to upgrade cell phones or consumer devices. Achieved by combining Ericsson's leading commercial Interference Suppression software with 4-antenna radio base stations

Ericsson (NASDAQ: ERIC) has developed a unique solution that triples uplink capacity in HSPA networks. This allows operators with a large number of end users to offer high uplink data speeds.

HSPA is a key means of delivering high-speed, high-capacity mobile broadband, allowing operators to cost-effectively meet user demand for advanced internet services – anywhere, anytime. However, as the number of smartphones connected to a network increases and usage of heavy data-generating applications surges, uplink capacity is becoming more and more important. This is the next important step to meet global smartphone service demands.

On January 25, 2012, Ericsson demonstrated that over-the-air uplink throughput for simultaneously active devices in a cell was increased from around 4Mbps to more than 12Mbps. The demonstrated capacity is an unprecedented figure for a 5 MHz WCDMA carrier.

This was made possible by combining Ericsson's commercially available receiver technology, Ericsson Interference Suppression, with 4-antenna radio base stations. There is no need to upgrade cell phones or consumer devices in order to achieve this gain.

Interference Suppression is the industry-leading base station receiver technology for WCDMA/HSPA that can vastly improve uplink speeds by increasing the network capacity. This is done by using advanced software algorithms in the base station that greatly reduce the negative effects of uplink interference that is today the bottleneck in many HSPA networks.

The gains were further enhanced by the use of base stations configured with four antennas per cell. This combination delivers a leap in end user experience and uplink capacity.

Improving uplink capacity with these technologies offers operators an elegant way to further serve a greater number of customers, who increasingly choose to upload information from mobile devices to cloud services for example sharing photo over social networks

Nils Viklund, Director WCDMA RAN at Ericsson, says: "We have proven that Ericsson's unique Interference Suppression is a giant leap forward and it will be the new reference for WCDMA uplink performance for years to come. This can even be further enhanced by combining it with multi-receive antenna technologies. Because these technologies work with existing devices, operators that implement them will instantly benefit from the attractive gain."

In all parts of the world, people are adopting more advanced mobile devices that enable connectivity anywhere, anytime. This trend is moving us toward a society where places, people and devices are constantly connected – a Networked Society. As Ericsson's latest Traffic and Market Data report revealed, mobile broadband subscriptions increased by 60 percent year-on-year in 2011, and are expected to number almost 5 billion in 2016.

Ericsson is committed to helping operators not only cope with increasing amounts of data traffic, but also to realize the opportunities that come with it.

Visit the Ericsson booth in Hall 6 at Mobile World Congress 2012 in Barcelona for a demonstration of this solution.

NOTES TO EDITORS

[Ericsson at MWC 2012](#)

[Mobile World Congress site](#)

Our multimedia content is available at the broadcast room:

www.ericsson.com/broadcast_room

Ericsson is the world's leading provider of communications technology and services. We are enabling the Networked Society with efficient real-time solutions that allow us all to study, work and live our lives more freely, in sustainable societies around the world.

Our offering comprises services, software and infrastructure within Information and Communications Technology for telecom operators and other industries. Today more than 40 percent of the world's mobile traffic goes through Ericsson networks and we support customers' networks servicing more than 2 billion subscribers.

We operate in 180 countries and employ more than 100,000 people. Founded in 1876, Ericsson is headquartered in Stockholm, Sweden. In 2011 the company had revenues of SEK 226,9 billion (USD 35,0 billion). Ericsson is listed on NASDAQ OMX, Stockholm and NASDAQ, New York stock exchanges.

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