

# SONERA WGate SERVICE USES NOKIA OPERATOR WIRELESS LAN TECHNOLOGY

## 1. SIGNIFICANT BOOST IN CUSTOMERS' NETWORK ROAMING POSSIBILITIES

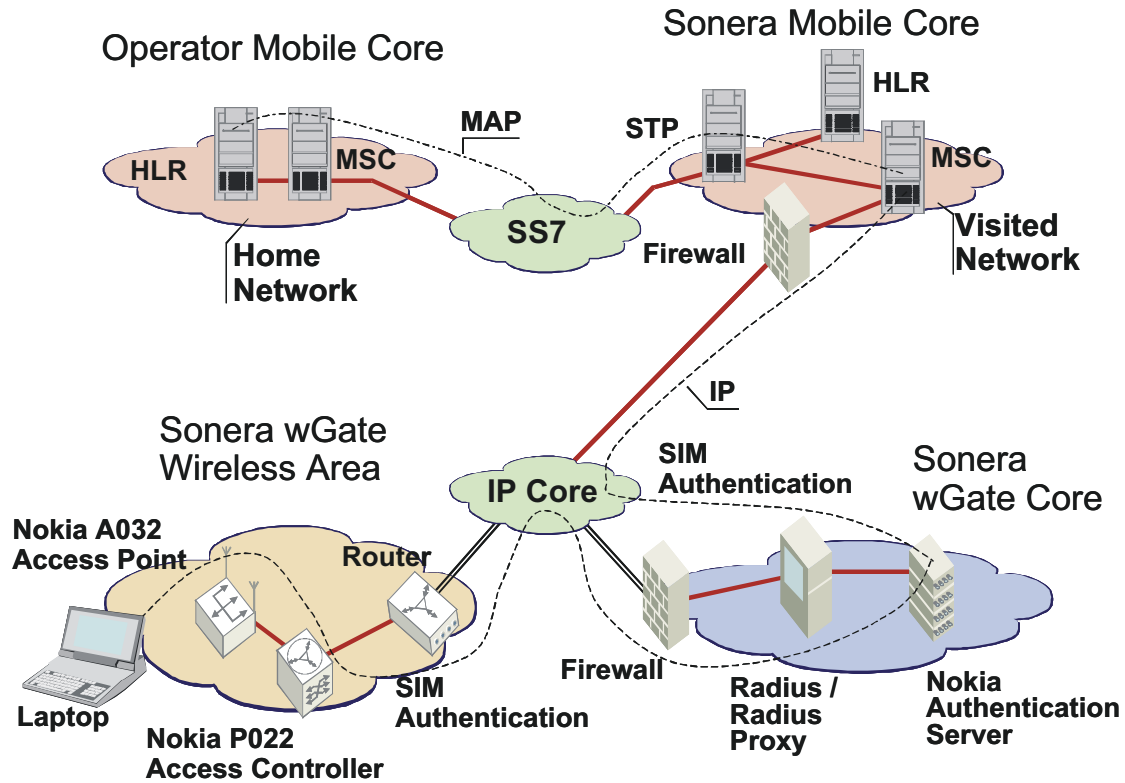
Sonera is bringing the advantages of Wireless LAN (Local Area Network, IEEE802.11b) in offering mobile broadband data connections to its nomadic business customers. By using SIM (Subscriber Identity Module) identification enabled by the Nokia Operator Wireless LAN technology, the Sonera wGate service can be connected seamlessly to existing Sonera mBusiness corporate products.

Sonera's wGate service supports network roaming between Wireless LAN operators by using the Nokia Operator Wireless LAN technology in customer authentication, authorisation and accounting. This solution seamlessly integrates broadband Wireless LAN 11 Mbit/s technology and Sonera's existing GSM infrastructure, enabling the utilization of existing GSM roaming practices and elements (both in GSM as well as in broadband Wireless LAN access networks). Thus Sonera's GSM SIM card can be used not only in GSM services, but also delivering international roaming service for business subscribers between operators' wireless LAN access zones.

The standard GSM SIM card can be installed in the Sonera wGate service user's Wireless LAN card. The GSM SIM card contains the customer's services in the GSM network's HLR (Home Location Register). This gives the subscriber access to the service using the GSM network's basic protocol (MAP, Mobile Application Part). Authentication information can then be easily verified from any of the 400 or so operator networks connected to the GSM network around the world.

Using GSM elements also significantly simplifies billing implementation by utilizing existing customer and billing systems, which handle the billing between operators. The diagram shows an example of the connections between the Sonera wGate service area and the GSM network and the subscriber's authentication when a user visits Sonera's wGate area, e.g. in the Helsinki-Vantaa airport.

## 2. WIRELESS LAN ROAMING UTILIZES GSM INFRASTRUCTURE



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