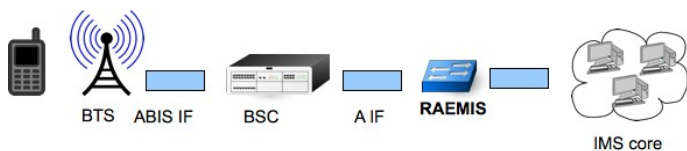
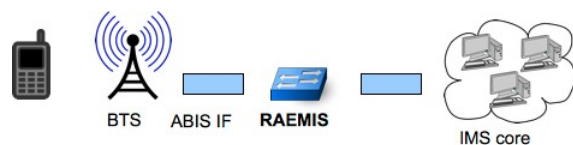


WHAT IS IT?

RAEMIS transforms a traditional GSM access network and its subscribers so that they appear as a next generation IMS (IP Multimedia Subsystem) access network with IMS subscribers. It can connect to the traditional GSM access network at a number of standardised access interfaces including the ABIS interface and A interface. It converts the service access requests at these interfaces to standard IMS service access requests which are based mainly on the ubiquitous Session Initiation Protocol (SIP). RAEMIS can provide full mobility for subscribers within the RAEMIS controlled network and can also support mobility between the macro GSM network.



IMS access through A interface.



IMS access through ABIS interface.

WHERE CAN IT BE USED?

RAEMIS can be used to deploy a cost effective mobile network based on 2G or 3G GSM access network equipment in conjunction with an IMS core network. IMS core networks are potentially more scalable and of lower cost than the traditional GSM core. This could be particularly advantageous for **2nd or 3rd world rural deployments** where the cost of network deployment is at its most sensitive.

RAEMIS can be used in **networks that are migrating to IMS** but still have a large number of subscribers which do not have handset support for the IMS protocols. RAEMIS allows standard 2G and 3G handsets to access the services of an IMS core as if they had native IMS support. This allows these networks to benefit from all the advantages of an IMS core without the need to migrate all the handsets of the existing subscriber base.

RAEMIS can be applied to the **femtocell market** to turn any legacy BTS into a femtocell. This allows a network operator to do their access backhaul over a cost effective IP based link such as a DSL line. In many cases this IP backhaul link is not being funded at all by the GSM network operator effectively providing free access backhaul.

RAEMIS can be used to reduce the traffic on expensive access backhaul links by routing access to local services to a local service provider at the access network site. Some examples of this might be **corporate subscribers accessing the services of a local corporate PBX** when they are at their home site.

RAEMIS can also be used to provide a local phone service, including text messaging, to small users who have a low power GSM license using nothing but an off the shelf SIP server to switch the calls. An example of a potential user of this type is an **internet calling shop** which could supply their services to users on their own mobile stations reducing the requirement they currently have for shop floor space.

WHAT ARE THE BENEFITS?

RAEMIS **reduces the cost of core network equipment** for a network deployment. The core network can be assembled from components as low cost as a simple SIP server up to a commercial IMS core from a tier 1 GSM equipment vendor.

RAEMIS can provide **savings on access backhaul costs** for operators where services are available locally at the access network site. This includes access to a local private branch exchange at the access network site and access to a voice session with another subscriber at the access network site.

RAEMIS can **ease the migration of an operators network to an IMS core** by enabling non IMS capable handsets to access the IMS core network without the need to upgrade these handsets.

RAEMIS can be used to **provide a femtocell using any vendor's GSM base station**.

Because the adaption to IMS is done on the network side, RAEMIS **does not suffer from the problems with IMS handset incompatibilities** which are giving rise to initiatives such as RCS (Rich Communications Suite). All handsets coming through RAEMIS will behave in a uniform way from an IMS perspective.