

HINTON Abis Probe

HOW IT WORKS

The HINTON Abis Probe passively monitors signaling links (GSM: Abis, A UMTS: IuB, IuCS, IuPS CDMA: Abis, A) and extracts radio measurements of cellular handsets in the network. Aggregation may be done locally at each monitoring site or centrally as network topology dictates. Third-party geolocation applications turn this information into X/Y co-ordinates that are used in cellular applications using techniques such as multilateration or fingerprinting.

Monitoring data using a separate overlay system avoids network interference and allows enhancement and upgrade independent of the main network.

Location information

The handset-based data that the HINTON Abis Probe provides to applications includes:

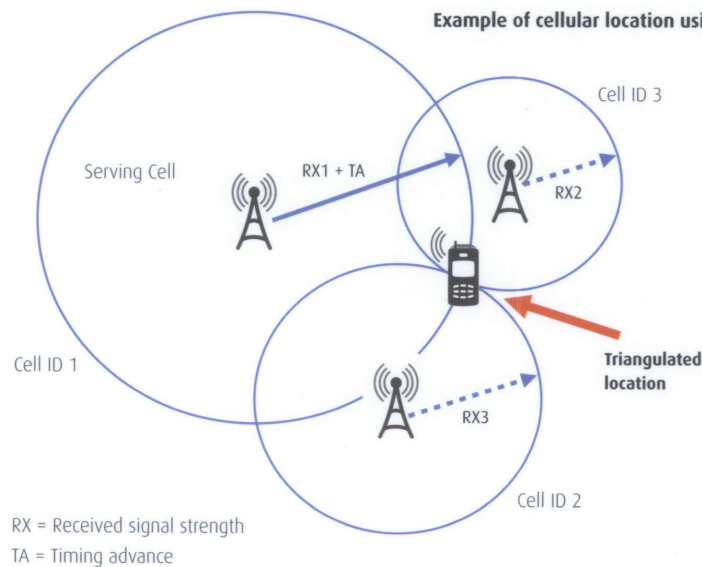
Cell ID

GSM timing advance or UMTS round-trip delay from serving cell

Received signal strength from serving and adjacent cells

Location area information

Example of cellular location using multilateration



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