

SiRFLoc Server

Multimode A-GPS Solution

PRODUCT OVERVIEW

SiRF's high-performance A-GPS positioning server provides carrier grade reliability and supports major A-GPS functions including GPS assistance data management, position computation, and support for user plane and control plane protocols. With a built-in multimode positioning engine plus other advanced hybrid positioning and aiding modes, SiRFLoc® Server provides high-sensitivity positioning aiding in addition to extended ephemeris aiding, which allows device aiding data without a network connection.

GENERAL SPECIFICATIONS

Supported Operating Systems

- Linux (Redhat Enterprise Linux v.4.0 and newer, 32 and 64 bit)
- Solaris v.5.8 and newer

Supported Protocols

- SUPL 1.0 (RRLP and RRC)
- RRLP (GSM) release 88, v.5.9, v.5.12
- RRC (3G) v.5.13
- IS-801A (CDMA)

GPS Reference Data

- GDC (GPS Data Center) providing GPS aiding data such as ephemeris, almanac, IONO, GPS time, raw navigation bits, UTC, and more from local reference receivers or a Global Reference Network

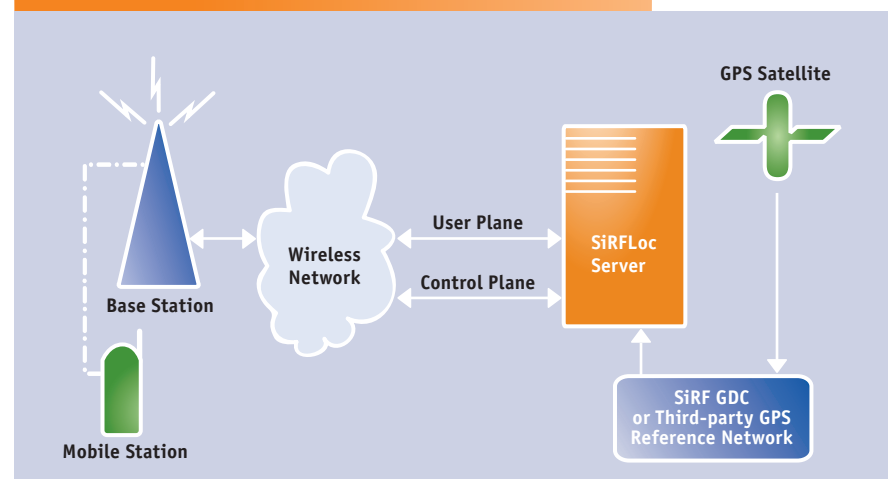
Development Support

- System Development Kits (including APIs in C/C++ and Java) are provided for implementing user plane SUPL Location Center and control plane SMLC/GMLC, SRNC, MPC, or other Network Location Centers for seamless integration with the SiRFLoc Server.

KEY FEATURES

- Uses Multimode Location Engine™ technology: Standalone, Autonomous, MS Based, MS Aided, plus other advanced hybrid positioning methods
- Compatible with standard network air interface types and location service protocols
- Supported A-GPS cellular standards: GSM, WCDMA, CDMA
- Supports both secure user plane and control plane
- Manages global and local reference data sources for advanced GPS data aggregation
- Uses advanced Anti-Multipath Triangulation for precise MS Aided positioning
- Supports multiple Network Location Centers in a single deployment
- Supports all versions of SiRFLoc Client
- Supports Extended Ephemeris aiding via standard protocols

SiRFLoc SERVER CONFIGURATION



TECHNICAL SPECIFICATIONS

Transactions

New sessions on standard H/W config. 5,000 /s
Simultaneous active location sessions >2,000,000

Data Sources

GPS reference data sources SiRF GPS Data Center (GDC) or third-party reference network

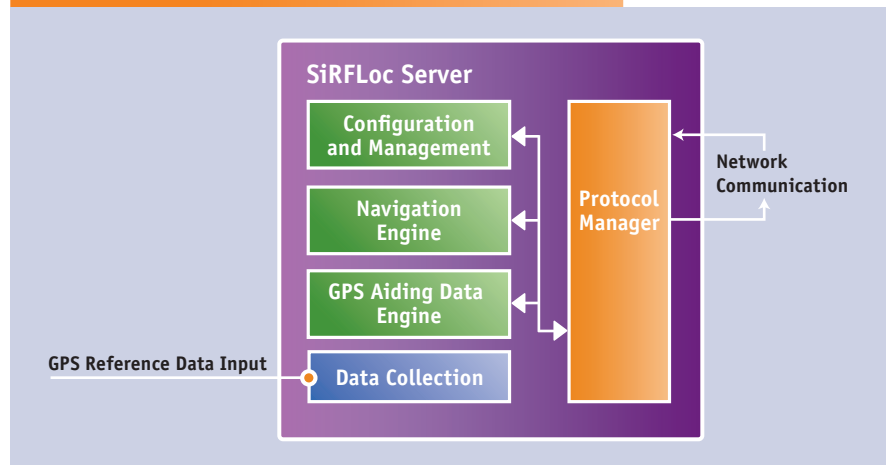
HIGHLIGHTED ADVANTAGES

SiRFLoc Server is designed to support A-GPS (MS Assisted and MS Based) both in the control plane and in the user plane architecture, offering subscribers first-class performance, throughput, and scalability to accommodate traffic increases on expanding networks.

When GPS is unable to compute a position, SiRFLoc Server offers powerful hybrid Cell ID positioning, in addition to other advanced hybrid positioning methods, to provide a superior location result. Depending on QoS and application requirements, SiRFLoc Server can also dynamically mix various positioning methods and location service protocols. SiRFLoc Server real-time operations and management are handled via administration interfaces through an administration console or via SNMP, and real-time alert functionality is performed through SNMP.

SiRFLoc Server is offered through SiRF's infrastructure partners, already integrated into their carrier-class network location server products. And SiRFLoc Server is also available to be integrated by wireless operators or wireless application service providers. When SiRFLoc Server is teamed with SiRFLoc Client, SiRFstarIII™ performance is assured.

SiRFLoc Server BLOCK DIAGRAM



ORDERING INFORMATION

For information about purchasing this and related products, contact your SiRF representative, or call our sales force at (1) (408) 467-0410, or visit www.sirf.com.

For the location of your nearest authorized SiRF distributor, visit www.sirf.com.

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