

A photograph of a person sitting on a wooden bench on a beach, looking at a laptop. The background shows a clear blue sky and the ocean.

*Charge for events, time, and volume
in any combination with your existing
PrePaid system*

Real-Time Charging Gateway

TELIGENT Telecom Real-Time Charging Gw (RTCGw) is a highly flexible network element that enables message flow control, real-time charging and generation of billing data for all types of traffic. The system provides the operator with complete protection and control over services and traffic by allowing the operator to maintain Service Level Agreements (SLAs) with content providers regarding resource sharing and access to the mobile network. The RTCGw enables mobile operators to offer a large service portfolio over wireless channels, including SMS, MMS and WAP/HTTP over GPRS, ensuring that services are charged in real time with existing NE for fixed and mobile networks.

The RTCGw provides mobile operators with a flexible solution to charge for SMS, MMS and Packet Data in real-time. The RTCGw also performs functions such as HLR interrogation. Real-time rating and charging on any event, CDR and EDR generation (CDR for post-paid users and as fallback, prepaid integration over INAP/CAP and DIAMETER API) as well as Tariff plan management.

TELIGENT Telecom Real-Time Charging Gateway - Benefits

- Allows mobile operators to charge for a large service portfolio over communication channels, including SMS, MMS and WAP/HTTP.
- The system acts as a mediation gateway that interacts with existing SMSC, MMSC, GGSN, and IN-PPS systems.
- Enables message flow control, real-time charging and generation of billing data for various types of traffic.
- GPRS flow of IP data can be rated in any combination: time, event, and volume

RTCGw main features

- Generic GPRS rating event, time, volume, session...
- Diameter server & client credit control
- Radius
 - charge and rating interface
- SMS, MMS push/pull
 - rating & charging
- Rating based on subscriber profile
- Throttling service, SLA, Black & White Lists
- SOAP charge & rate interface
- Forced post-paid – roaming prepaid subscriber charging
- Tariff build & management
- Statistics
- All Network support PLMN, PSTN, NGN/IMS
- Prepaid national roaming charging
- Convergent charging
- Peer to peer MMS charging
- File based provisioning

Service Mediation Gateway

Message Gateways (SMS-Gw and MMS-Gw)

These subsystems contain the content provider interfaces over SMPP for SMS and MM7/SOAP for MMS. Supports push and pull-push services.

Content Services Gateway (CS-Gw)

The subsystem is composed by the TELIGENT Telecom software component GTP and the Cisco hardware CSG system. The GTP component interfaces the CSG hardware with the TELIGENT Telecom system. The CSG is the gateway between MT users and services such as WAP, Internet, Web, FTP, email and streaming media.

Diameter Gateway (DIAM-Gw)

Diameter server and client – for event and session-based online charging.

SOAP Gateway (SOAP-Gw)

External service provider interface for rating & charging.

Radius Gateway (Radius-Gw)

Radius Proxy server for event and session-based online charging.

Service Support functions

Content Provider Account Management (SMS/MMS)

Handling of content provider accounts and settings, such as message types allowed and SLA parameters. Blocked and Allowed lists.

Subscriber Screening

Screening functionality implementing global and local black and white lists. Optionally including content filtering engine.

Statistics

Network, service, and content usage statistics.
Basis for business intelligence to better understand user behavior.
Revenue sharing reports for settlements with content/service providers.

Network Resource Management

Throttling, flow control
Load balancing
SLA policies (SMS/MMS)

User Integrity

Alias mechanism, protecting user identity (SMS/MMS)
Spam control (SMS/MMS)
Real-time Content Filtering

Rating and Charging Capabilities for 3G/NGN/IMS

Standardized on-line Reserve & Debit based on Diameter / INAP-CAP SS7 XML-SOAP & Diameter based Rate & Charge interfaces for external applications. Various Rating parameters such as volume, QoS, geographical location, content etc. can be configured.

Service Gateways

SMS Gw

MMS Gw

GPRS Services Gw

Optional

- USSD Gw
- Voice Gw / IVR
- Streaming / IPTV Gw
- Mobile Location Proxy / Gw

Summary

The TELIGENT Telecom RTCGw is a flexible network element solution that enables message flow control and true real-time charging that provides enhanced rating for various types of traffic. The RTCGw provides the operator with complete control over services and traffic and all traffic is analyzed prior to rating. The RTCGw provides charging of time, volume, event, in any combination.



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