

Class 4 Routing Server

The Class 4 Routing Server enables dynamic routing for TELES Softswitches



- Versatile routing strategies and statistics
- Dynamic call routing adaptation
- QoS driven routing
- Percentage routing
- Easy to use WEB interface
- Improved routing maintainability
- Up to 25 million routes

Product Overview

The Class 4 Routing Server enables TELES Softswitch customers to set-up dynamic call routing based on a variety of parameters which are monitored using call detail records. Different quality of service (QoS) parameters are used to calculate the routing policies:

- Average call duration
- Answer bid ratio

In addition to the QoS based routing, percentage based routing through specified carriers is also provided by this system.

Furthermore, this system is equipped with a wide range of different applications including:

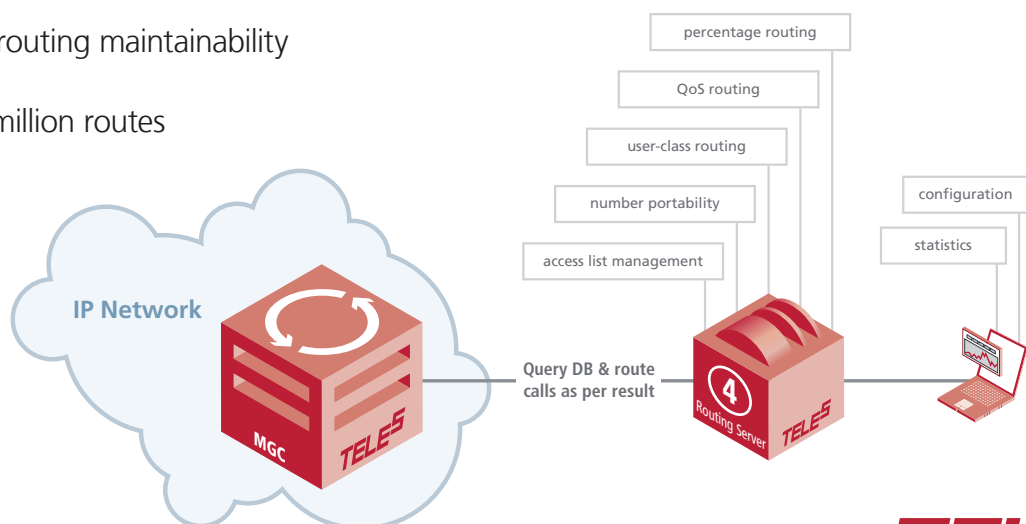
- User Class routing
- Number validation based on white and black lists
- Number portability

Technical Description

The system is built on a two-server basis in a redundant configuration which provides the centralized route management.

A web based interface provides easy-to-use configuration tools for specifying parameters and strategies regarding:

- Network configuration including carrier configuration, destinations and trunk details
- CDR Parser to gather information necessary for routing calls and for generating reports.
- The routing module enables the user to define routes based on trunks, origination, destination numbers, manipulation of call parameters, etc.
- Statistics enables the customer to view and monitor performance statistics for the network.



Class 4 Routing Server

CAPABILITIES

| | |
|--------------------------------|---|
| Supported MGC Versions | Compact 2.0.2 Cluster 2.1.2 |
| Supported IP-TDM Version | 1.5.5 |
| Supported CDR formats | TELES CDR formats 24, 28, 30, 31 and 32 |
| Max. entries NP | 25 million |
| Max. entries for user class | 25 million |
| Max. entries wholesale routing | 25 million |
| Performance | CDR processing for up to 2.7 million calls per day at 150 CAPS. |

SYSTEM MANAGEMENT

OAM by Web based GUI
CLI (command line interface, SSH)

HARDWARE SPECIFICATIONS

Carrier-grade reliability and availability based on NEBS3 certified hardware architecture (system of two units)

Physical Parameters

| | |
|------------------------|---|
| Enclosure | Sun X4250 chassis 2RU |
| Dimensions (H x W x D) | 87.1 mm x 445 mm x 526 mm |
| Weight | Approx. 17.5 kg (38.5 lbs.) |
| Power | 1+1 Power supply units, 100–240 VAC, 50–60 Hz, max. 650 W Hot-swap and redundant |
| System disk | 1+1 RAID1 SAS disk, 146 GB, Hot-swap and redundant |
| Network interface | 2 (1+1) Redundant 100/1000 Mbps Ethernet ports |
| Management interface | 1 TIA/EIA-232-F asynchronous RJ45 port (serial) 1 100 Mbps Ethernet port |

Environment Conditions

| | |
|-------------------------|--|
| Temperature, operating | 5°C to 40°C (41°F to 104°F) |
| Temp., non-operating | -40°C to 70°C (-40°F to 158°F) |
| Humidity, operating | 5 % to 85 %, non-condensing |
| Humidity, non-operating | up to 93 %, non-condensing, 40°C (104°F) |

Regulatory Compliance

| | |
|--------------------|---|
| Emissions | EMC Directive 89/336/EC EN 55022/CISPR 22 Class A FCC CFR 47 Part 15 Class A |
| Immunity | EN 61000-3-2, EN 61000-3-3, EN 55024/CISPR 24 |
| Telecommunications | EN300-386: Telecordia SR3580 NEBS Level 3 |
| Environmental | EN300 019-2-1,2,3, Class 1,2,2.3,3.1E |
| Seismic | GR-63-CORE |
| Electrical Safety | LVD Directive 2006/95/EC UL/CSA-60950-1, EN60950-1, IEC60950-1 CB Scheme with all country deviations, IEC825-1, 2, and CFR21 part 1040 |



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