Solution component

TELES NGN

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

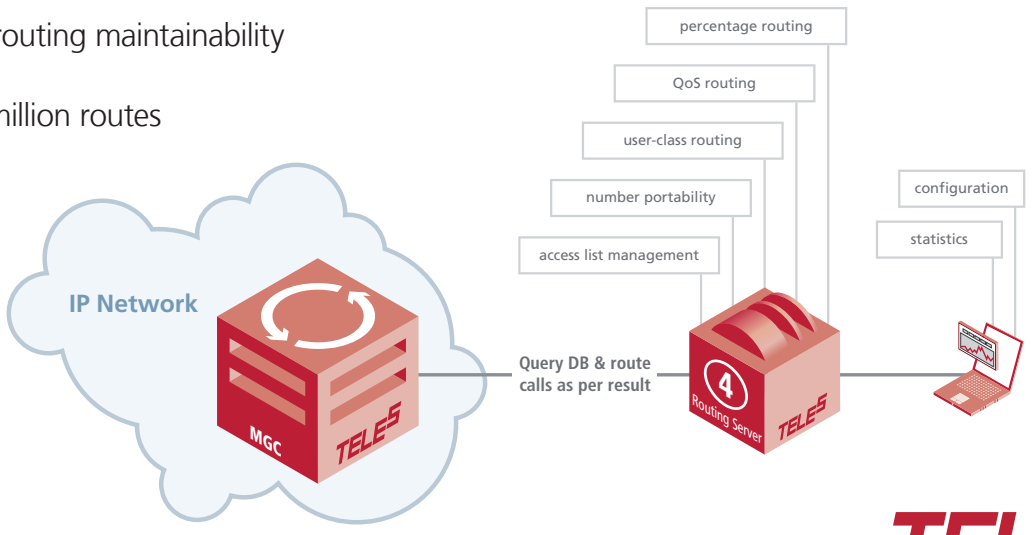
In addition to the QoS based routing, percentage based routing through specified carriers is also provided by this system.
Furthermore, this system is equipped with a wide range of different applications including:

- 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.



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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 × W × D)	87.1 mm × 445 mm × 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

Find out more: **www.teles.com**

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