

OKEFORD OIS Gateway

The OKEFORD OIS Gateway allows operators to consolidate OIS services, improve efficiency and save OPEX by providing IP backhaul of operator information services (OIS) traffic from central offices to a centralized OIS node or IP based OIS system.

KEY FEATURES

- TDM <-> IP Gateway
- Provides IP backhaul of remote OIS traffic to centralized OIS system
- Supports 1xOC-3 (up to 84 DS1s)
- Supports MF signaling for OIS services

KEY BENEFITS

- Centralizes OIS services to reduce maintenance and OPEX costs
- Allows decommissioning of end-of-life OIS systems
- Provides mechanism to migrate to NGN IP based OIS services
- Carrier-class NEBS compliant hardware

APPLICATIONS

Operator information services such as

- Directory assistance/call completion
- Coin deposit tones (for call boxes)
- Originating party number information
- Call intercept for unassigned/old numbers

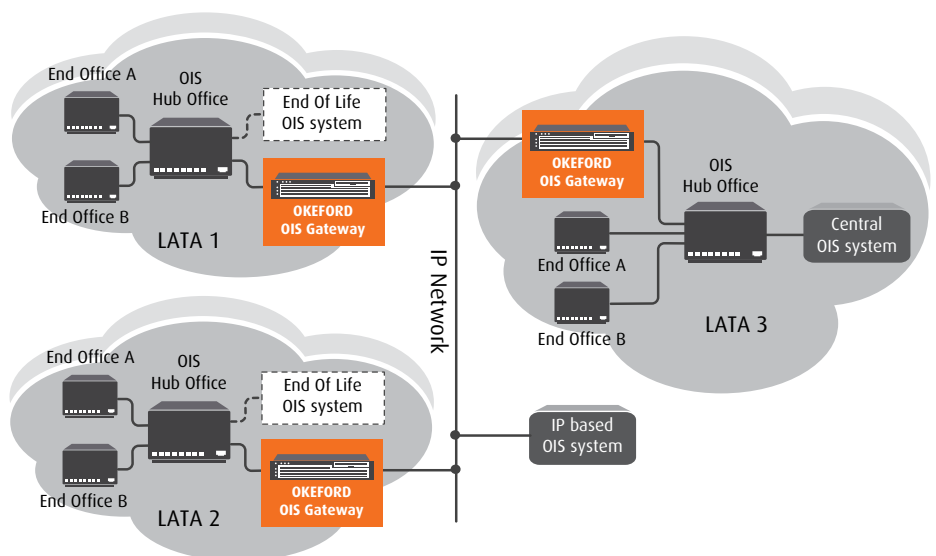
OVERVIEW

The OKEFORD OIS Gateway is ideally suited to IP backhaul of operator information services (OIS) traffic from remote hub offices in one or more local access transport areas (LATA) to a centralized OIS node, or to an IP based OIS system. Connecting PSTN and IP networks, it converts multi-frequency (MF) signaling to SIP, allowing low-cost IP backhaul, and back again to MF for onward processing by the central OIS system.

This allows operators to decommission near end-of-life, expensive to support or unsupported OIS systems (such as TOPS and OSPS), and to concentrate their OIS resources in central locations, reducing operational expenditure.

The OKEFORD OIS Gateway is easy to deploy, requiring minimal network re-configuration. It appears to the interconnected switch as a functional equivalent to the decommissioned OIS system, transparently transporting MF signaling and subscriber audio traffic over the IP network to the central OIS system.

Telesoft Technologies has an unrivalled expertise in field-proven deployments with the world's leading carriers. More than 250 operators use Telesoft Technologies' signaling, media and monitoring platforms in fixed, 2/3G, IMS, cable and next-generation IP networks in over 100 countries. The OKEFORD OIS Gateway builds on the globally deployed Telesoft Technologies OKEFORD Media Platform, serving 10's Millions of subscribers in wireless and wireline networks.



OKEFORD OIS Gateway

TECHNICAL SPECIFICATIONS

Capacity

- 1 OC-3 interface – 84 DS1
- Quad Gb Ethernet for RTP/IP traffic and management
- 2016 RTP channels

Media

- G.711 TDM
- G.711 RTP
- G.168 echo cancellation with a 128ms tail
- Transport of coin station tones in-band

Signaling Protocols

- GR-510-CORE Section 2, GR-499-CORE T1 Robbed-Bit CAS
- GR-510-CORE Section 2, GR-499-CORE T1 super framing (D3/D4 framing)
- GR-1144-CORE MF Inward Interface
- GR-506-CORE Multiwink
- GR-510-CORE MF Intertoll
- GR-528-CORE Inband Signaling and Expanded Inband Signaling
- GR-531-CORE MF Verification Connection
- GR-532-CORE Interim Signaling for Intercept
- GR-690-CORE Pre-MF EAOSS interface to TDM switch
- GR-692-CORE MF EAOSS interface to TDM switch
- Nortel DMS-100 Family 297-8021-350 Automated Intercept Signaling
- Nortel DMS-100 Family 297-8021-350 Bell Signaling

IP Network

- Packet Loss 1 in 10,000,000
- Jitter < 4 ms
- One-way latency across longest connection Typical 26 ms
- Traffic prioritization diffserv.
- Voice traffic label with EF (express forwarding)
- Signaling traffic label CS3 (class 3)

Physical

- Height 2U (88.1 mm/3.46 in.)
- Width 436 mm (17.2 in.)
- Depth 318 mm (12.5 in.)
- Rack mounting 19-inch, 23-inch, 25-inch
- Carrier-class NEBS compliant hardware

Power

- Supply Dual -36/-72 VDC feeds
- Dual hot swap PSUs

Alarms

- 2 x Dry Relay Contact, NO/NC
- Tri-color LED to signal status
- Fan failure
- Over temperature
- Power supply failure

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