



OKEFORD 5500 Media Platform

The Okeford 5500 Media Platform hardware/software architecture delivers Telco-grade throughput and scalability, deployed in four continents, supporting over 150M subscribers making 200M calls a day

Telesoft OKEFORD media platform scales to 2,000 ports, with high density STM-1/OC-3 interconnect, occupying 5U in rack space, integrating with charging and service control infrastructure in AIN/IN, mobile GSM/CDMA 3G and 2G networks. Standard service control interfaces (IN, AIN, CAMEL) enable quick deployment and migration of services.

The small footprint minimises power consumption and maximises available real estate, reducing operational costs, enabling consolidation, and releasing equipment room space for other network infrastructure.

Variants

GSM pre-paid - CAMEL-IN for 3G GSM pre-paid (account management, top-up, pre-call and mid-call announcements).

CDMA pre-paid - WIN for CDMA mobile pre-paid (account management, top-up, pre-call and mid-call announcements).

AIN - SR-3511 and GR-1129 for providing call screening, privacy and self-service applications.



OKEFORD 5500 Media Platform

Key Features

Application service control through AIN or CAMEL or WIN	Work with existing, extensively deployed SCP infrastructure
Up to 2000 channels in one system	Reduce rack space, reduce power and OPEX
Optical interconnect (STM-1/OC-3)	Reduce interconnect and install cost by connecting to core network transport
Multiple language support	Support multiple language announcements per call based on subscriber profile
Supports CAMEL and WIN at the same time	Integrate a single application (i.e. billing system) to serve both GSM and CDMA networks
63 E1 to STM-1 multiplexed (provided by the mux)	Allows aggregation of traffic and high density capacity

Applications

Large-scale mobile pre-paid (pre-call announcements, mid-call, balance top-up) deployment	Multiple language IVR
Replacement and consolidation of legacy IP/IVR equipment	Consolidate TDM gateway and media server into a single unit
Replace end of life equipment and maintain existing AIN, IN or mobile IN (WIN/CAP) services	

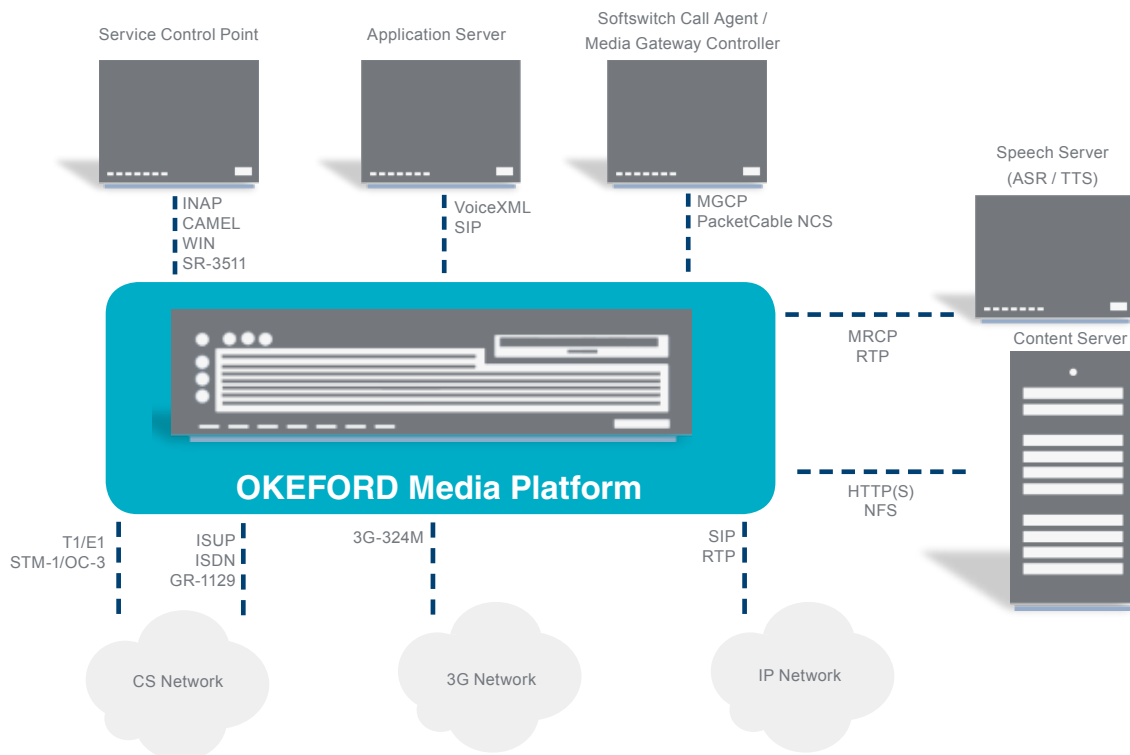
Technical Specifications

SDH/SONET and Ethernet Interfaces	OKEFORD 5500: 1 x OC-3 optical OR 1 x STM-1 optical TDM interface per 2U chassis and mux	AIN Protocols	GR-1129-CORE SR-3511
Performance and Capacity	Typical 250,000 BHCA/BHCC per chassis1 Up to 2016 media/bearer channels per 2U chassis and mu	Media Processing	Voice Play on every channel simultaneously DTMF on every channel simultaneously VAD on every channel simultaneously Automated speech recognition via MRCP V2 (ASR engine not included) Text to speech via MRCP V2 (TTS engine not included) Voice record via MRCP V2 Content caching for improved latency Voice play storage: >3GB Built-in grammars for dates/times currencies Up to 32 languages (recordings not provided by Telesoft)
Telecom Call Control	RFC3332: M3UA SIGTRAN G.703 E1/T1 LSL SS7 256 trunk groups Up to 16 SS7 link sets Up to 112 SS7 signalling links SS7 A-link & F-link support ITU-T ISUP: Q.761-Q.764 ITU-T international ISUP: Q.767 ETSI ISUP V2: ETS 300-356-(basic services) ANSI ISUP: T1.113, Telcordia GR-246- CORE UK ISUP: PNO ISC 007 Indian ISUP: S/CCS-02/03 Brazilian ISUP: TELEBRAS 22-250- 735 ISDN: Q.931 EuroISDN: ETS 300-102 TR-41449, TR-41459, TR- NWT-001268, TR-NWT-001187	Management	Remote GUI configuration and resource management CDR generation to disk and TCP/IP Alarms and statistics via SNMP
ITU/ETSI IN Protocols	INAP CS-1: ETSI ETS 300-374 INAP CS-2: ETSI EN 301-140 CAMEL: ETSI TS 101 441, 3GPP TS 29.78 WIN Phase 1: 3GPP2 NS.0013-0. IS-771 Telcordia: GR-1129-CORE, SR-3511 ITU-T TCAP: Q.771-Q.774 ITU-T SCCP: Q.711, Q.713, Q.714 ANSI TCAP: T1.114 ANSI SCCP: T1.112 IN XML: based on ETS 300-374 & EN- 301-140	Physical	19 inch rack mountable AC 110-250V, DC-48V Dimensions (2U): (h) 3.45 inches x (w) 17.14 inches x (d) 20 inches

Order Options

Part Number	Description
500002877	OKEFORD 5500 Media Platform W/O mux
Licenses	
500002327	IN License (inc SR-3511, GR-1129) per 100K BHCC
500002324	CAMEL or IS771 WIN License per 100K BHCA
500002286	2xT1 G.711 GR-1129 capacity license
500002284	2xE1 G.711 ISUP capacity license
500002285	2xT1 G.711 ISUP capacity license
500002284	2xE1 TDM Capacity License
500002884	SWAP API Support License
Extras	
500002980	Optimux STM-1/OC-3 Terminal mux AC
500000343	12-month extended warranty
500000303	Training (charged per day)

System Architecture



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