

METASPHERE MEDIA RESOURCE SERVER IMS MEDIA RESOURCE FUNCTION



DESIGNED FOR SCALABILITY AND RESILIENCY, THE METASPHERE MEDIA RESOURCE SERVER (MRS) HAS BEEN PURPOSE-BUILT TO DELIVER MEDIA RESOURCE FUNCTIONS FOR METASPHERE TELEPHONY APPLICATION SERVER SOLUTIONS. OPTIMIZED FOR ADVANCED NGN VOIP INFRASTRUCTURES, THE METASPHERE MRS LEVERAGES THE UBIQUITOUS SESSION INITIATION PROTOCOL (SIP), COMBINED WITH THE POWERFUL BUT EFFICIENT MEDIA SERVER MARKUP LANGUAGE (MSML) TO DELIVER CUSTOMIZABLE, MULTI-SERVICE, AUDIO FEATURES.



- MetaSphere media processing
- Tone generation and detection
- Interactive voice response (IVR)
- 3-way media stream mixing
- High availability (HA) platform
- N+1 and geo-redundancy options

OPEN ARCHITECTURE

Metaswitch is dedicated to delivering voice services based on open and extensible standards. The MRS provides IMS-optimized media resource functionality across all network infrastructures, including wireline, wireless, broadband, cable or satellite.

SCALABILITY

Each, individual, 1RU MetaSphere MRS instance simultaneously serves up to 650 concurrent active call legs, supporting up to 78,000 busy hour call attempts (BHCA). By simply adding additional appliances, the media resource server scales to cost-effectively deliver voice applications from a single site to large, highly distributed, multi-location network infrastructures.

RELIABILITY

The NEBS Level 3-certified MetaSphere Media Resource Server has been designed for over 99.999% (“five nines”) reliability. A fully redundant media resource function layer can be achieved cost-effectively by deploying a single N+1 pool of, optionally geographically distributed, MRS platforms supporting multiple, distinct, MetaSphere telephony application server platforms.

METASPHERE MEDIA RESOURCE SERVER SPECIFICATIONS

PHYSICAL

- Dimensions: 1.75" (44.45 mm, 1U) H x 16.9" (429.26 mm) W x 21" (533.4 mm) D
- Weight: 24 lbs (10.9kg)
- Mounting options: 19" or 23" racks between 17.5" and 24" deep
- Operating Temperatures: 32° to 113°F (0° to 45°C), 32° to 131°F (0° to 55°C) short-term (up to 96 hours)
- Operating Humidity: 10 to 90% non-condensing
- Shock: 30g acceleration peak (11ms pulse)
- Vibration: 5-17 Hz 0.5" double amplitude displacement; 7-2000Hz, 1.5g acceleration

POWER

- 400W (-48V) power supply
- AC (UX4410A) or DC (UX4410D)
- -36 to -72 VDC

COMPLIANCE

- UL1950 and EN60950 safety certification
- EN55022 Class A, FCC Class A and CE Mark EMI certification
- NEC article 250 electrical certification
- NFPA fire certification
- NEBS level 3
- RoHS 6/6

SCALABILITY

- Single or 1+1 redundant MRS supports 650 concurrent call legs & 78,000 BHCA
- Scales to N+1 server pools supporting multiple MetaSphere TAS instances
- Geographical redundancy options

NETWORK MANAGEMENT

- Metaswitch craft interface
- Integrated with MetaView NMS for alarms and statistics

CODECS

- G.711 (64kbps PCM)
- G.726 (32kbps ADPCM)
- G.729AB (8kbps CS-ACELP)

LOCALIZATION AND CUSTOMIZATION

- Standard IVR locales: US English, UK English, Latin American Spanish, Canadian French, Italian
- Additional locales available on request
- 18 country-specific tone sets with additional available on request