

SVP – MMS



Benefits

- Increases customer satisfaction by reducing the time required to detect customer-impacting problems
- Reduces operating cost by automating monitoring, testing and reporting
- Increases operator visibility of service quality by providing network-wide, real-time reporting of measurements and key performance indicators (KPIs)
- Improves consistency in customer experience by performing a common set of tests throughout the entire network footprint
- Reduces the time and risk to install or modify network infrastructure by providing extensive recursive testing capability
- Increased revenue and reduced churn through positive customer satisfaction

Key Features

- MMS validation from an end-user perspective
- Tests mobile-to-mobile and email-to-mobile MMS messages through the operator's network
- Validation of voice calls from a subscriber perspective
- Enables continuous monitoring of service quality and availability from large numbers of geographically-dispersed locations
- Supports JDSU's Mobile Identity (MI) Server, providing a centrally-located pool of SIM modules for testing various subscriber profiles in remote locations
- Flexible and extensible script language with advanced parameterization, control and logging functionality
- HLR access and control via custom integration or telnet-based CLI scripts
- Interactive mode for test development and troubleshooting

RCATS[®] SVP –MMS enables wireless service providers to assess in real-time the quality and performance experienced by end users for using Multimedia Messaging Service (MMS).

The MMS SVP validates the quality of service experienced by end users for sending and receiving MMS messages. For each MMS test, the SVP sends and/or receives messages over the air interface and through the operator's network. It then records detailed information regarding latency and throughput. Test results are reported in real-time, providing operators with full visibility into current network performance and enabling rapid-response to issues. The MMS SVP provides test profiles to validate a variety of MMS scenarios, including

mobile-to-mobile, mobile-to-email and email-to-mobile. Specific to mobile phones and networks, these profiles are fully-parameterized and extensible, enabling operators to develop their own profiles to address complex or operator-specific test requirements. In addition to the fully-automated test mode, the solution also provides operators with an interactive mode for validating network modifications prior to deployment or for troubleshooting network or service issues.

The MMS SVP is part of the patented JDSU RCATS[®] solution, which enables automated testing, centralized management and aggregated reporting for large numbers of deployed probes. The solution allows wireless operators to access real-time, network-wide performance and availability information, enabling them to use this information to increase service quality, increase revenue and reduce costs.

Specifications and Key Performance Indicators (KPIs)

Service Validation

- Mobile-to-mobile MMS
- Email-to-mobile MMS
- Mobile-to-email MMS
- MMS multimedia message (JPG, AMR & text)
- MMS text message (512 characters)

Performance Measurements*

- MMS delivery time
- MMS mobile originated success rate
- MMS mobile terminated success rate

* This is a sample of available measurements and KPIs.
Additional measurements may be available or created upon request.

Message Details

- Origination number
- Destination number
- Send/arrival time
- Message type (MMS multimedia, MMS text)

Call/Mobile Information

- IP address of mobile phone(s)
- Signal strength
- IMEI, IMSI and MSISDN (GSM)
- ESN and MIN (CDMA)
- BSC/RNC

RTP Functionality for MMS

- 2 or 3 mobile phones (depending on RTP model)
- Supports simultaneous usage of data paths

Phone Control for MMS

- Power on/off; battery removal
- SIM select (GSM) among 4 local SIMs or unlimited remote SIMs with MI Server
- SIM (GSM) or MIN programming (CDMA2000)

Solution Requirements and Options

Required RCATS® Solution Components

- RCATS® Remote Test Probes (RTPs)
- QoSExecutive
- QoSManager
- Optional: MI Server (centralized SIM repository)
- Optional: MI Server Controller

RCATS® Remote Test Probes (RTPs)

- RCATS® RTP – GPRS/GSM
- RCATS® RTP – EDGE/GPRS/GSM
- RCATS® RTP – HSDPA/EDGE/GPRS/GSM
- RCATS® RTP – 1xEV-DO Rev. 0/1xRTT
- RCATS® RTP – 1xEV-DO Rev. A/1xRTT
- RCATS® RTP – iDEN

RCATS® Managed Services

- RCATS® RoamerNet®

RCATS® Service Validation Packages (SVPs)

- RCATS® SVP – Basic Voice
- RCATS® SVP – Supplementary Services
- RCATS® SVP – Basic Data
- RCATS® SVP – WAP
- RCATS® SVP – SMS
- RCATS® SVP – MMS
- RCATS® SVP – Voice Quality
- RCATS® SVP – IVR

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