



DATA SHEET



KEY BENEFITS

Broadest Extensive Coverage

VeriSign is leading the industry in establishing direct connections and peering agreements to provide expansive carrier connectivity.

Operational Excellence

VeriSign is a recognized leader in managed services for mission critical carrier applications.

Seamless Service Integration

Supports advanced features such as wireless number portability (WNP), IP and SS7 interfaces, and various billing and settlement solutions.

Carrier Control

Advanced provisioning capabilities provide carriers with complete control over Metcalf ICM functionality.

Reliable Infrastructure

Solution is deployed on state-of-the-art software and a fault-tolerant hardware platform in a geographically redundant configuration.

Sophisticated Spam Detection

Monitors frequency, size, and type of messages to identify and stop spam from reaching carrier networks.

Wireless Number Portability

Integrated wireless number portability and pooling support.

VeriSign® Metcalf Intercarrier SMS

Text messaging traffic is growing rapidly worldwide. Subscribers are expected to send approximately 2.8 trillion SMS messages in 2010, resulting in over \$72.5 billion in revenue to wireless carriers (source: Gartner). Interoperability between carriers and devices, across disparate networks and technologies, is key to realizing the vast revenue potential of peer-to-peer text messaging. VeriSign® Metcalf Intercarrier SMS (ICSMS) is the premier solution for global inter-carrier text messaging. VeriSign Metcalf Intercarrier SMS provides fast, reliable, and secure messaging and interoperability services to over 600 carriers around the world, reaching over 2 billion wireless subscribers and processing over 600 million messages each day.

+ Extensive Coverage

VeriSign leads the industry in establishing direct connections and peering agreements to provide the most complete carrier coverage across GSM, TDMA, CDMA, and other networks. VeriSign Metcalf Intercarrier SMS handles the routing, messaging protocol conversions, and reformatting necessary to complete delivery between incompatible networks.

+ Revenue Opportunity

VeriSign Metcalf Intercarrier SMS offers carriers greater wireless data revenue potential, as evidenced in the United Kingdom, where short messaging traffic increased more than 700 percent in the nine months after establishing interoperability among carriers. Similar results have occurred in other wireless markets where interoperability has been introduced—including Australia, where it brought a 900 percent traffic increase in just eight months.

+ Experienced Providers

VeriSign Metcalf Intercarrier SMS is an outsourced inter-carrier messaging solution for wireless carriers jointly provided by VeriSign and RealNetworks. VeriSign is the trusted provider of Internet infrastructure services for the digital world. Billions of times each day, companies and consumers rely on VeriSign Internet infrastructure to communicate and conduct commerce with confidence. RealNetworks, now a subsidiary of RealNetworks, Inc. (Nasdaq: RNWK), is a leading provider of inter-carrier messaging and integrated digital entertainment solutions to communications service providers worldwide. This partnership is unrivaled in its experience and innovation.





VERISIGN METCALF INTERCARRIER SMS SPECIFICATIONS

Text messaging protocols

- SMPP
- SNPP
- UCP
- SMTP
- CIMD
- HTTP
- WCTP
- SS7/C7

Connectivity

- TCP/IP over public Internet with firewalls
- TCP/IP over T1 PVC
- TCP/IP over frame relay
- TCP/IP over leased lines (T1, 56K)
- VPN over TCP/IP
- SS7
- SS7 over IP

Wireless network technologies

- GSM
- TDMA
- CDMA
- iDEN
- ReFLEX

Infrastructure

- Sun servers
- Sun Solaris OS
- Oracle databases

EASY IMPLEMENTATION

VeriSign Metcalf Intercarrier SMS requires no up-front capital costs to enable intercarrier messaging. Implementation involves three easy steps:

1. A direct IP connection is established to VeriSign Metcalf Intercarrier SMS from carrier network
2. Message routing is configured from the network SMSC or message server
3. Carrier configuration is tested and acceptance plans are followed—service launch follows

+ VeriSign Metcalf Intercarrier SMS Solution

VeriSign Metcalf Intercarrier SMS is provided on a service-bureau basis that connects to wireless carriers' messaging systems and routes messages between carriers. Messages are exchanged with VeriSign Metcalf Intercarrier SMS via standard messaging protocols such as SMPP. VeriSign Metcalf Intercarrier SMS allows subscribers to send messages to more of their friends, family, and colleagues by providing the required network interoperability. When their carrier is connected to VeriSign Metcalf Intercarrier SMS, subscribers can send SMS messages outside their network in the same, easy way as they send messages within their network. Subscribers simply address SMS messages to the mobile number of the recipient—no complicated email addresses are necessary. VeriSign Metcalf Intercarrier SMS handles the routing, messaging protocol conversions, and reformatting necessary to complete the delivery between incompatible networks and provides billing information, reporting statistics, and other services to the participating carriers. VeriSign Metcalf Intercarrier SMS also supports integrated wireless number portability, pooling, SS7 interfaces, and various billing and settlement solutions.

+ Network Reliability

The VeriSign® Network Surveillance Control Center monitors network performance around the clock to protect against service-affecting situations and maintain network integrity. The state-of-the-art, network-wide troubleshooting system provides advanced warning in case of potential problems. The VeriSign Metcalf Intercarrier SMS platform is also protected against regional service impacts with its physical and geographically redundant systems.

+ VeriSign Metcalf Intercarrier SMS Highlights

- **Billing Flexibility**—VeriSign Metcalf Intercarrier SMS supplies billing information back to the originating network for every message processed. This billing information is supplied in the operator's preferred format. Carriers are provided flexible provisioning capabilities for error messages, billing information, performance monitoring, and other functionality.
- **Scalability**—A distributed server solution, VeriSign Metcalf Intercarrier SMS provides a robust messaging platform that scales quickly to meet evolving carrier requirements. Adding server capacity easily accommodates wireless network operator expansions and growth in message traffic.
- **Security**—VeriSign Metcalf Intercarrier SMS is protected by carrier-grade measures to ensure the security of its network, as well as the networks to which it is connected. Secure connections, robust encryption methods, and firewalls are fundamental components of VeriSign Metcalf Intercarrier SMS. This offering also incorporates dynamic "spamming" filters that assist in providing protection to carriers' networks and their subscribers. This unique filter is configurable by origin, destination, and frequency on both a group and individual subscriber level.

+ Learn More

For more information about VeriSign ICSMS, please call 888-716-0023 or email: mobilesales@verisign.com

Visit us at www.Verisign.com for more information.