



DATA SHEET



KEY BENEFITS

Incremental Income from Data Services

Helps service providers increase subscriber usage of data services on roaming partner networks, representing potential additional roaming revenue from visiting data subscribers.

Faster Revenue Collection Process

Streamlined management of subscriber roaming records helps ensure timely and accurate billing and eliminates the need to individually invoice roaming partners.

Increased Service Provider Footprint

Expands network coverage for subscribers to roaming partner networks creating universal access to data services.

Competitive Differentiation Preserves Market Position

Simple architecture with proven scalability and performance supports faster deployment of new data services to support positioning as a market leader.

VeriSign® Wireless Data Roaming Service (WDRS)

VeriSign® WDRS is a complete outsourced intelligent infrastructure service enabling providers to offer wireless data roaming to subscribers over broadband wireless networks including, but not limited to, CDMA1x, GSM/GPRS, and Wi-Fi. The VeriSign WDRS solution helps service providers minimize capital expenditures while providing the essential components of a complete, robust data roaming service.

VeriSign WDRS mitigates much of the logistical complexity and security concerns of implementing and maintaining data roaming arrangements and assists in getting to market quickly with quality service. Our industry leadership and commitment to efficiency and innovation in signaling networks means VeriSign is your trusted provider.

WDRS facilitates the following bi-directional roaming scenarios:

- CDMA1x–CDMA1x
- CDMA1x–Wi-Fi
- CDMA1x–GPRS
- GPRS–Wi-Fi

+ Wireless Data Roaming Key Features

Data Transport Services: GRX and CRX

The VeriSign® GPRS Roaming Exchange (GRX) and VeriSign® CDMA Roaming Exchange (CRX) services provide secure, scalable connections between networks to enable mobile data service roaming. Through a single connection to the VeriSign GRX and CRX, carriers are able to reach their GPRS or CDMA1x roaming partners and provide ubiquitous service for their subscribers.

VeriSign GRX and CRX services use a global network of private, high-capacity facilities to interconnect mobile carriers worldwide. The services employ a fully redundant, global, switched network over terrestrial fiber, submarine, and satellite systems. This network utilizes current technologies to help ensure the highest quality and to support all types of data traffic.

VeriSign GRX and CRX services offer more value through exceptional service quality and performance, as well as multiple connectivity options including VPN. The standard service includes the ability to prioritize traffic, online reporting of current and historical data, and the highest level of support



Where it all comes together.™



DATA SHEET

Roamer Visibility

Optional portal for visibility into roamer validation messages for voice and data, and for monitoring roamer activity in near real-time. Easily identifies potential roaming issues for proactive response, enabling increased service levels and assisting in maximizing revenue.

Fraud Management

Optional visibility, analysis, and compilation tools for data roaming traffic offers near real-time information about potential fraud for proactive network management support.

Roamer Authentication, Authorization, and Accounting (AAA)

AAA provides a means of verifying a user's identity, granting access, and recording usage. Centralizing roamer AAA with VeriSign creates a trusted third-party point of control and audit of roaming administration. This functionality validates and reports data events for home and visiting subscribers for reconciliation with roaming partners. Data records are quickly available for subscriber billing via the service provider's proxy server. Roamer AAA proxy services are available for both Remote Authentication Dial-In User Service (RADIUS) and EAP-SIM.

Network Usage Mediation

The VeriSign® Usage Mediation Engine provides access to all subscriber records via one simple connection. Session data records are provided in real time and can be mapped into industry recognized billing formats such as RADIUS, Cibernet Cellular Intercarrier Billing Exchange Roamer Record™ (CIBER), Transfer Account Procedure (TAP), Exchange Message Interface (EMI), and Internet Protocol Detail Record (IPDR).

Rating, Clearing, and Settlement

VeriSign offers flexible clearing and settlement choices, including the distribution of clearing record files directly to the service provider or a designated billing system/clearinghouse. The VeriSign net settlement process allows service providers to track and analyze their financial position with data roaming partners. Monthly reports detail the service provider's financial position, network usage, and subscriber roaming patterns. Invoicing is also available for non-net settlement processing. VeriSign can perform multiple wholesale rating and taxing schemes by roaming partner.

VeriSign provides secure, easy-to-use Web reporting tools that provide insight into data roaming records for validation, reporting, and transfers. Access any one of 40 daily or monthly reports tailored to financial, marketing, and fraud management. User-defined and custom reporting is also available.

Internet Protocol (IP) Operations Support Solution (OSS) and Storefront Portal

The VeriSign Storefront Portal and IP management platform enables service providers to deploy a private-label wireless local area network (WLAN) portal and a seamless experience to their subscribers whether at home or while roaming. Quick and efficient administrative tools streamline provisioning and payment authorization. The software bundles the following core features:

- **Service Provisioning**—Remote management and real-time deployment of IP services
- **Product Catalog**—Manage voice/video/data service attributes such as pricing
- **Subscriber Management**—Subscriber database and subscription service offerings
- **Storefront Portal**—User facing portal/sell pages with dynamic content and service management
- **Customer Care**—End-user self care (manage user profile and service offerings) and CSR customer profile management
- **Roaming Administration**—Administer roaming agreements and AAA/Proxy settings using web-based secure administration
- **Payment Processing**—Integrate payment processing support for credit, debit, Automated Clearing House (ACH), and prepaid accounts

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

©2005 VeriSign, Inc. All rights reserved. VeriSign, the VeriSign logo, "Where it all comes together," and other trademarks, service marks, and designs are registered or unregistered trademarks of VeriSign and its subsidiaries in the United States and in foreign countries. Cibernet Cellular Intercarrier Billing Exchange Roamer Record is a trademark of Cibernet.