

AllRoamer At a Glance

AllRoamer > Executive Summary

Background

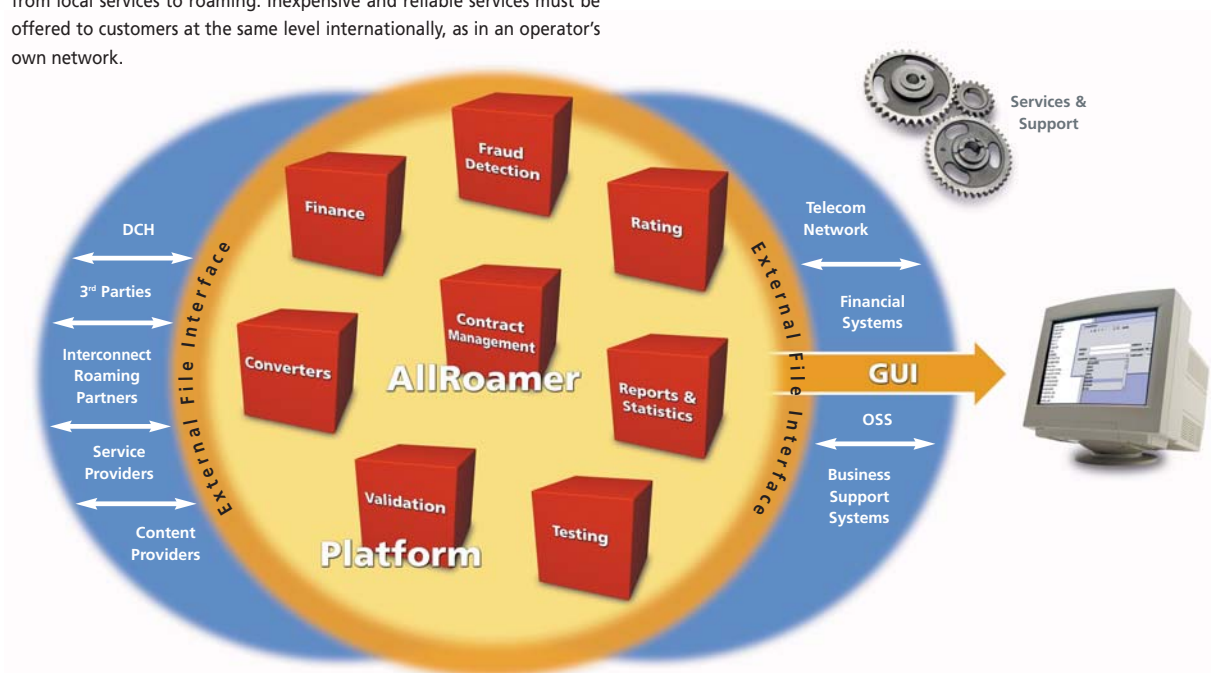
With worldwide roaming revenues expected to reach US\$50 billion in 2004 there is a growing need for mobile operators to have the technologies and skills to **manage this critical part of their business, in-house**. Dependency on legacy billing systems and a diminishing number of data clearinghouses will prove to be problematic and costly as the demand and complexity of roaming business grows.

As the latest trends indicate, competition among mobile operators is shifting from local services to roaming. Inexpensive and reliable services must be offered to customers at the same level internationally, as in an operator's own network.

The Dynamic Roaming Solution

AllRoamer is an application suite that provides a complete and integrated solution to all roaming business needs, including inter-operator roaming, contract and partner management, file formatting and transmission, call rating and re-pricing, testing, validation, and a range of other services.

Although it's a turnkey system designed specifically to meet the complete roaming needs of mobile operators, AllRoamer can be integrated to financial, billing, CRM and data warehouse systems.



Main AllRoamer features

Format Flexibility

AllRoamer's flexible Format Adaptor module handles all kinds of MSC, Billing System, GPRS and other vendor specific formats. Virtually any type of Call Detail Record (CDR) can be read, edited, filtered, analyzed and converted.

>> For a complete list of supported formats refer to page 4 of CeDaR News.

Inter-Standard Roaming (ISR)

This module supports the complicated file translations required to manage roaming between dissimilar network types such as GSM-WLAN, GSM-CDMA and GSM-TDMA. Virtual roaming on the domestic market with MVNOs is also supported. ISR enables AllRoamer to handle the multifaceted roaming cases that are common with the rollout of advanced wireless networks.

Contract & Partner Management

AllRoamer can validate incoming rated TAP records according to partner specific conditions. Roaming agreements, partner operator details, tax and exchange rates, billing periods, volume discounts, and bank account details are recorded and managed in AllRoamer.

Reporting

AllRoamer's reporting module provides a complete set of reports and statistics for roaming specialists. Additionally, customized reports can be generated automatically and sent to designated individuals or groups.

Roaming Fraud Detection

ALLROUND's Fraud Detection System has been in operation for many years. Our expertise in identifying a wide range of fraudulent behavior (including pre-paid and interconnect fraud) is incorporated in this module.

Testing

When a new service, technology or roaming partner is added to your network the Testing Module can be used to:

- >> Visualize the content of the new CDRs and TAP files.
- >> Understand the structure of the new CDRs.
- >> Create test data for determining whether or not the CDRs resulting from your new service or technology will work properly with your rating, mediation and billing systems.
- >> Generate thousands of CDRs in seconds that cover all possible call scenarios.

Validating

AllRoamer offers a wide-range of validation functionality including:

- » *Outgoing TAPIRAP Encoding and Incoming TAPIRAP Decoding (supported versions include: RAP 1.1, RAP 1.2, and ACK)*
- » *Returned Account Procedure handling (RAP file generation and handling)*
- » *Merging and splitting of TAP files*

Call Rating

AllRoamer can simplify your rating tasks with its configurable Roaming Rating Module. It allows mobile operators to handle multiple rating structures targeting different kinds of user groups in different currencies. Value-added and content-based services such as GPRS, pre-paid roaming, and MMS are also supported.

Re-pricing, which is the recalculation of roaming charges for calls made in the visited network, is another feature of this module. With AllRoamer, re-pricing can be done without billing system modification.

Invoicing

Invoicing for roaming partners can be managed automatically through AllRoamer's finance module. This module can be integrated with financial systems for tracking account receivable details.

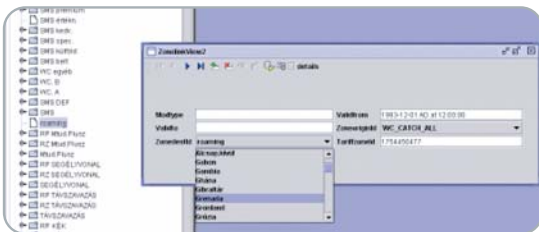
External File Interface (EFI)

This part of AllRoamer connects it to the telecom network, interconnect partners, data clearinghouse, as well as financial and OSS systems. EFI allows for inter-operability throughout a mobile operator's existing infrastructure.

AllRoamer's Back Office Interface connects to back office accounting systems. This interface provides access to financial transactions such as accounts receivable and payables.

Java-based GUI

An easy and user-friendly operation is guaranteed through AllRoamer's Java-based graphical user interface.



Benefits

- » *Reduce cost, increase revenue and improve control over your roaming business by having a system dedicated to this purpose.*
- » *Better track and manage roaming business, and identify new revenue opportunities by analyzing customer behavior.*
- » *Dynamically carry out targeted marketing campaigns specifically tailored to roaming subscribers.*

About us

- » ALLROUND is an ISO 9001:2000 certified Hungarian company founded in 1991, which specializes in software development and consulting.
- » It has been a Microsoft Certified Solution Provider since 1995, an Oracle Alliance Partner since 1997 and became an Oracle Certified Solution Partner in 1999.
- » Admitted as a Member of the Sun Developer Connection(SM) Partner Program in 2001, ALLROUND joined most recently HP's Developer & Solution Partner Program in May 2004.
- » ALLROUND entered the GSM Association as an Associate Member in April 2002, listed under the categories of Security Systems Supplier and GSMA Standards Supporter.
- » ALLROUND is represented in the following working groups of the GSMA: BARG, TADIG, the File Specification Subgroup and TTS.



business partner



Advantages

- » *AllRoamer is a modular system that allows mobile operator to select the functionality they require. New modules can be seamlessly added as needed.*
- » *AllRoamer is a turnkey system designed specifically for roaming that integrates to legacy billing and back office systems.*
- » *Unmatched format flexibility. ALLROUND has extensive experience in format handling and conversion, and supports more formats than any supplier to the mobile operator industry.*
- » *AllRoamer is available on Microsoft, Linux and Unix platforms.*

Service & Support

ALLROUND offers the following services in support of AllRoamer:

- » *Consultation for scoping roaming requirements*
- » *Proof of Concept*
- » *Workshop*
- » *Project Management*
- » *Testing*
- » *On-site and web-based training*
- » *Automatic TAP upgrades*
- » *Technical Support services are available via e-mail, phone and on a 24/7 basis support*



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