ANTS – Automatic Network Test System

Global Roaming Assurance

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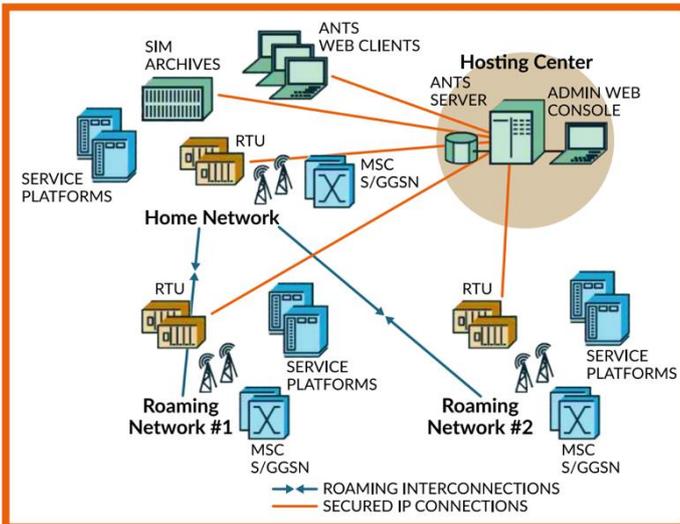## Assuring quality of service for roaming customers

International roaming is a critical component of telecom operators' business. It accounts for a significant amount of revenue and margin. International roaming users are usually high value customers often having influence on corporate accounts and are willing to pay a premium to use voice and data services provided they receive outstanding Quality of Service (QoS) wherever they may be.

While operators are pressed to develop new services to support their growth, delivering these services is becoming increasingly more challenging. Mobile office functionalities for business users, information and entertainment services, and videoconference are all complex services that involve multi-player delivery chain and rely on complex infrastructures – a complexity that increases exponentially in roaming.

How does an operator verify QoS for customers abroad? One solution is implementing a system capable of simulating and testing customer use-cases from foreign countries, provided that a wide geographical scope can be efficiently covered with the agility, scaling and automation capabilities required to handle many often changing services, customer profiles and roaming partners.

FOCUS ON WHAT MATTERS…

The ANTS for Global Roaming Assurance solution for telecom operators guarantees that their services are delivered with high-quality to their customers abroad based on an outsourced end-to-end testing infrastructure pre-deployed across most countries.

Operators can focus on their mission-critical tasks and leverage their expertise without expending time, energy and resources to the operations and maintenance of a testing infrastructure abroad.

• ANTS is a GSMA certified GRQ End-to-End test solution.

• ANTS ensures Virtual Home Environment (VHE) testing using pre-built libraries of test procedures and KPI/KQIs that provide extensive service coverage

(voice, SMS, MMS, voice-mail, CLI/CAMEL-based services, web navigation, etc.), predefined standard IREG and GRQ test suites on all networks technologies (from GSM to 4G+ and ISDN, PSTN, Ethernet for fixed networks). Customizations can be implemented in order to address additional or more specific testing needs.

• ANTS for Global Roaming Assurance streamlines process automation by automatically running defined tests according to your individually designed scheduling plan, processing the results, and generating the KPI/ KQIs and associated alarms, if any.

Users can:
• modulate their interaction with the platform accordingly to different service levels
• focus on roaming data relying on professional support service and reporting (solution agnostic)
• access the solution via their web browsers with support for investigation and analysis by interactive dashboard analysis, access to detailed traces, ad-hoc scheduling of complementary tests in order to support the overall roaming assurance process agility.

SEAMLESS DEPLOYMENT
NO INFRASTRUCTURE MANAGEMENT

ANTS eliminates the need for infrastructure operation & maintenance.
• ANTS for Global Roaming Assurance arrives as a service on a scalable pre-deployed infrastructure that liberates telecom operators from the cumbersome operations and maintenance of Remote Test Units (RTU) deployed in more than 150 countries and the administration of the server systems. A simple web browser is all that is required for users to access this service via a secured connection.
• ANTS Virtual SIM Displacement technology enables test SIM/USIMs to be placed in SIM Archives on the operators' premises – the unique component possibly installed onsite. Easily controlled and managed by users, the SIMs are virtually dispatched to the appropriate RTU at test execution time.
• Implementing the ANTS for Global Roaming Assurance service consists in defining the tests to be run, relevant KPI/KQIs, and reports to be produced – the solution can be rapidly deployed and "live" within a few weeks.
• The shared platform supporting the ANTS for Global Roaming Assurance solution has extended customization & integration capabilities ensuring deployment of a solution that exactly meets operators' needs and requirements. Customization can include defining specific tests, KPI/KQIs, or reports. Interfacing with various systems such as alarm management systems requires minimal integration due to the support of open standards.
TAP files and Call Data Records (CDR) acquisition and verification are integrated as well.

KEY BENEFITS
• **Web-based service approach: 24/7 accessibility with no infrastructure management**

• **Standard test and reporting packages**

• **Business and technical support**

• **Rapid service setup on pre-deployed testing infrastructure across 150 countries**

• **Automatic and ad-hoc test planning, execution and analysis**

• **Full control over test SIM/USIMs cards through virtual SIM displacement technology**