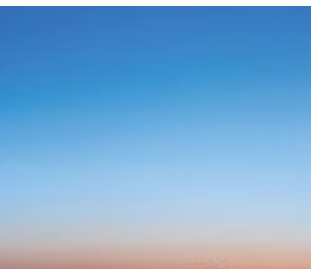# SIGOS
testing is our competence

18th Telecommunications Conference

Frankfurt | Germany
30 May - 1 June 2016

GlobalRoamer & Services

150 Operators and Telco Companies

100 Countries from around the World

Professional Service Telecommunications

Fraud & SIM Box Detection

CONFERENCE PROGRAM

SITE
QoS & QoE

380 Participants from around the World

Revenue Assurance

Frankfurt Marriott Hotel, Hamburger Allee 2, Germany
Email: conference@sigos.com

Pre-Conference Program

13:00 - 14:30
Conference Area

LTE Network Technology, QoS & QoE Session

Best Practice Insights: VoLTE, ViLTE and other LTE Services

This session looks into the evolution of LTE with a dedicated focus on LTE network infrastructure and services such as VoLTE, CSFB, ViLTE, IMS and LTE data speed measurements. Along with this, you will receive detailed insights into best practice LTE network architecture with an outlook to SON.

Host: Igor Sobolev

Room: Gold 3

Fraud Detection & Revenue Assurance

Fraud Detection & Revenue Assurance 2015 / 2016: Fighting SIM Box, CLI Spoofing, SMS Bypass and OTT Fraud

This session is focused on providing you detailed insights into network fraud and the financial impacts. You will also learn about findings, the best approaches to detect network fraud, minimize fraud & bypass as well as on how to secure networks for future fraudulent activities. High level experience from over 100 Mobile networks will underline the effectiveness of the technology and methods used.

Host: Emmy Legér

Room: Gold 2

14:30 - 15:00
Conference Foyer

Coffee & Tea
Networking

15:00 - 16:30
Conference Area

GlobalRoamer & Roaming Managed Services

Roaming & Interconnection: Rolling out Worldwide all Technology Roaming

This session is focused to provide in-depth insights into LTE rollout strategies, technology challenges and solutions enabling roaming worldwide. Experience and findings from worldwide test campagnes and data collected during mega events will be presented to conclude winning strategies to improve network quality and faster LTE rollouts. Understand more of the key benefits using GlobalRoamer and IRTA service.

Host: Vincenzo Fiorentino

Room: Gold 3

Revenue Assurance & Billing

Revenue Assurance in Billing: Benefits from Testing new & existing Tariffs and Rating

Worldwide PWC estimated that 8-15% of network operator revenues are lost due to problems within the billing, rating and tariff plan. In most cases such errors are never detected. Understand the complexity of tariff and rating revenue assurance and get insights into the problems and errors detected worldwide. The session will focus on national tariff and rating as well as international roaming traffic tariffs and rating errors.

Host: Mathias Stangl

Room: Gold 2

16:30 - 17:00
Conference Foyer

Coffee & Tea
Networking

17:00 - 17:45
Conference Area

Portfolio Synergies

**Portfolio Synergies: Ready for the Future
Architecture, Value & Benefits of using a Combined Solution Portfolio**

This session looks into the SIGOS portfolio to provide an overview on how to utilize it to your utmost benefit and in the most efficient way. Is there more that you can do with little investment or effort? Maybe you are not aware of useful features and add-ons which would save you time and money? This overview session is the right starting point to best practice and solution synergies with SIGOS.
Host: Danish Naeem, Room: Gold 1-3

From 18:30
Conference Foyer

Networking Reception & Early Registration

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08:30 - 09:00 Conference Foyer		**Coffee & Tea** Networking

09:00 - 09:15 Room Platinum		**SIGOS ▪ Adil Kaya** CEO **Opening of the 18th SIGOS Telecommunications Conference**

09:15 - 10:25
Room Platinum

The Mobile Future & Business

ETSI ▪ Adrian Scrase
CTO and Head of 3GPP Mobile Competence Centre

Next Stop: 5G - Setting industry standards for a connected future

Vodafone Netherlands ▪ Paul Fleuren
Manager Service Management Center

Vodafone network quality supervision from core to QoE
Meeting the ever-increasing data consumption

Telus, Canada ▪ Ragulan Sinnarajah
Technology Strategy & Operations Messaging And Value Added Services Chief Technology Office

NFV: IP and VoLTE testing experience with SITE

10:25 - 11:00 Conference Foyer		**Coffee & Tea** Networking

11:00 - 12:15
Room Platinum

Quality of Experience – QoE to QoS

Operator from Australia ▪
Final speaker name to be announced in next agenda update

LTE: 300 Mbps and VoLTE service tests – Network challenges and achievements

Claro, Argentina ▪ Gustavo Velilla and Sebastián Sanfilippo
Roaming Operations Supervisor Argentina, Uruguay and Paraguay
Monitoring & Systems Management Specialist

SITE integration to SQM platform & testing with SITE and Globalroamer

Operator from Indonesia ▪
Final speaker name to be announced in next agenda update

Combining SITE and GlobalRoamer – Ensuring inbound and outbound quality

SIGOS QoS and QoE Testing
Final speaker name to be announced in next agenda update

Innovations and latest solutions

Help & Info-Point

If you have any questions, queries or need assistance, the Conference Help & Information Team is here to help. You will find the them at the conference foyer.

Experts' Corner

Talk to the SIGOS experts during the conference days to learn about the full range of SIGOS solutions. Including system and hardware showcase.

12:15 - 13:00
Room
Platinum

Panel Discussion:
Future Business & New Markets in
an Everything Connected World

Chairman

Board Director GSMA Ltd. ▪ Mohan Gyani
Former President & CEO AT&T Mobile, USA

VIP Guests:

Dynatrace, USA ▪ John Van Siclen
CEO

ETSI ▪ Adrian Scrase
CTO and Head of 3GPP Mobile Competence Centre

Unitel, Angola ▪ Amílcar Safeca
Member of the Board of Directors Deputy CEO and CTO

Avantel, Colombia ▪
Final speaker name to be announced in next agenda update

SIGOS ▪ Adil Kaya
CEO

13:00 - 13:05
Room
Platinum

Introduction to afternoon workshop program

13:05 - 14:30
Conference
Foyer

Lunch Break
Networking

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14:30 - 17:00
Conference
Area

Parallel workshop sessions
Please refer to 'workshop program'

**During all
conference
days**

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the full range of SIGOS solutions. Including system and hardware showcase
Your questions will be answered by SIGOS Experts.

SITE
GlobalRoamer
Revenue Assurance
Fraud Detection
Professional Services

From 18:30
Conference
Foyer

Group Photo Session and Departure to Networking Event

Located right next to the European Central Bank and situated overlooking the river Main, we are
concluding the day with stunning views, sunset, entertainment and three different areas to choose
from according to your taste: the sunset terrace, the party floor and the chill-out area at the roof-
top.

Departure:

Shuttle service back to hotel:

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08:30 - 09:00 Conference Foyer		**Coffee & Tea** Networking

09:00 - 09:30
Room
Platinum

What's New: Roadmap

What's New: The SIGOS Roadmap Talk – Interview Session

Florian Leeder ▪ Business Unit Manager Roaming
Goce Talaganov ▪ Senior Product Manager
Kenneth Mouton ▪ Business Unit Manager Fraud
Steffen Öftring ▪ Revenue Assurance Manager

Moderated by:
Paolo Silvi
Executive Key Account Manager

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09:30 - 10:45
Room
Platinum

Roaming & Interconnection

GSMA ▪ Nicola Witney
Network 2020 Project Manager

Network 2020 – LTE, VoLTE and ViLTE roaming standards

NTT Docomo, Japan ▪ Yoichi Nakamura
Network Service Operations Department

VoLTE in roaming: leading 4G roaming rollout experience

European Operator ▪
Final speaker name to be announced in next agenda update

Roaming and Interconnection Case Study

Telecom Italia Sparkle, Italy ▪ Antonio Baldassara
Business Line Voice & Mobile - Head of Marketing

A2P Services and Case Study of Telecom Italia Sparkle

European Operator & Carrier ▪
Final speaker name to be announced in next agenda update

Fast rollout of LTE Roaming Agreements

10:45 - 11:15 Conference Foyer		**Coffee & Tea** Networking

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11:15 - 12:30
Room
Platinum

Fraud Detection & Revenue Assurance

BTRC, Bangladesh ▪ Brigadier General Iqbal Ahmed
Director General Engineering & Operations

Telecommunication Scenario in Bangladesh and Challenges of Curbing Illegal VoIP Call

Afriwave, Ghana ▪ Philip Sowah
CEO

Act in concert: fighting fraud on a national level – Ghana's regulator initiative

Vodacom, Mozambique ▪ Joseph Nderitu
Head of Revenue Assurance

CDR profiling and data analytics with Fraud Terminator

Operator from Taiwan ▪
Final speaker name to be announced in next agenda update

The benefits of fraud managed services – a customer testimonial

Vodafone Germany ▪ Sebastian Milczanowski
Global Process Lead Margin Assurance Central Europe

Vodafone blueprint for assessing OTT bypass and other global threats

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12:30 - 13:00
Room
Platinum

Panel Discussion: World-Wide Operator Experience Exchange

NTT Docomo, Japan ▪ Seishi Tsukada
Director of International Service Group, Network Services Operations Department

Operator from Taiwan ▪
Final speaker name to be announced in next agenda update

Cantv, Venezuela ▪
Final speaker name to be announced in next agenda update

Vodafone Netherlands ▪ Paul Fleuren
Manager Service Management Center

Operator & Carrier from Europe ▪
Final speaker name to be announced in next agenda update

Operator from Europe ▪
Final speaker name to be announced in next agenda update

Moderated by:
Joachim Bamberger
Executive Vice President Sales

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Experts' Corner

Talk to the SIGOS experts during the conference days to learn about the full range of SIGOS solutions. Including system and hardware showcase.

13:00 - 13:05 Room Platinum		**Introduction to afternoon workshop program**
13:05 - 14:30 Conference Foyer		**Lunch Break** Networking halal · veggie · fresh organic · healthy eating · gluten free
14:30 - 16:05 Conference Area		**Parallel workshop sessions** Please refer to 'workshop program'

During all conference days

Experts' Corner

Talk to the SIGOS experts during the conference days to learn about the full range of SIGOS solutions. Including system and hardware showcase Your questions will be answered by SIGOS Experts.

SITE
GlobalRoamer
Revenue Assurance
Fraud Detection
Professional Services

From 18:30
Hotel Lobby

Evening Event

After the conference, feel free to explore Frankfurt on your own, do your souvenir shopping or simply relax. In any case, meet your peers for a farewell party at very centrally located Mantis Bar & Grill at the center of Frankfurt.

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& check out latest news, pictures and comments

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* the SIGOS Frankfurt Conference app will be available via a special download link for participants only

Conference Workshop Program
Overview both Conference Days

Workshop	Room	Day 1				Day 2		
New Products Release		14.30 - 15.10	15.20 - 16.00	16.10 - 16.50	18.30	14.30 - 15.10	15.20 - 16.00	18.30
SITE — **Virtualization & SITE in Cloud** — QoE and QoS testing with a fully virtualized solution — **Host: Florian Leeder**		■		■			■	
SITE — **Hybrid Local Unit and SITE Smartphone Interactive** — QoE and app testing with fully integrated smartphones — **Host: Danish Naeem**			■		18:30 Departure to Networking Event	■		18:30 Departure to Networking Event
FRAUD — **OTT & SMS Fraud on Mobile Networks** — Best solutions & experience fighting fraud — **Host: Emmy Legér**		■		■			■	
FRAUD — **Big Data Analytics Against Fraud – the Terminator** — Big data meets active SIM Box Detection — **Host: Kenneth Mouton**			■			■		
New Features, Technology and Use Cases		14.30 - 15.10	15.20 - 16.00	16.10 - 16.50	18.30	14.30 - 15.10	15.20 - 16.00	18.30
NEW — **SITE Roadmap 2016 and Beyond** — Highlights from the SITE roadmap — **Host: Goce Talaganov**		■		■		■		
NEW — **OTT Video Streaming Testing** — QoE Video testing of Netflix, YouTube & Co. — **Host: Vlad Bratu**			■		18:30 Departure to Networking Event		■	18:30 Departure to Networking Event
SITE — **All IP Testing and Monitoring of All IP Networks** — Using IP link performance metrics in SITE — **Host: Selcuk Dogan**		■		■			■	
Detailed Experts' Insights and Benefits		14.30 - 15.10	15.20 - 16.00	16.10 - 16.50	18.30	14.30 - 15.10	15.20 - 16.00	18.30
GR — **GlobalRoamer and Roaming Onboarding** — How to speed up 4G roaming agreements — **Host: Ann Heyse**			■			■		
SITE — **LTE, LTE-Advanced, VoLTE and IMS Testing** — Comprehensive Active End-to-End monitoring of LTE network services — **Host: Igor Sobolev**		■		■		■		
SITE — **QoE Trace Analytics** — QoE failure analysis for tracing, reporting and troubleshooting — **Host: Marko Ristic**			■		18:30 Departure to Networking Event	■		18:30 Departure to Networking Event
RA — **Revenue Assurance – Efficient Leakage Detection in Billing** — Detecting national and roaming revenue leakages — **Host: Paul Lia**		■		■		■		
GR — **International Interconnect and Connectivity Testing** — International service quality and carrier selection testing with ICQT — **Host: Vincenzo Fiorentino**			■			■		
Operator & Standardization Insights		14.30 - 15.10	15.20 - 16.00	16.10 - 16.50	18.30	14.30 - 15.10	15.20 - 16.00	18.30
GSMA — **Roaming KPIs – Shaping the Roaming Strategy** — **Host: Nicola Witney, GSMA / Florian Leeder, SIGOS**		■						
MNO — **Core Network testing towards 2020** — **Host: Giulio Maggiore, Telecom Italia**					18:30 Departure to Networking Event	■		18:30 Departure to Networking Event
ETSI — **Standards, Testing and Open Source** — **Host: Anthony Wiles, ETSI**								

SITE & GlobalRoamer User Training

Pre-Registration Required! **Free of charge for conference participants!**

10:00 - 17:00
tba

**Trainer:
Selcuk Dogan**

User Training – Base Level

The 2-day User Training Base is intended for all who work with the SITE or GlobalRoamer test system (pre¬paration of tests, execution of tests and analyzing of the test results).

Content:

- components (HW, SW) of the SITE Test System and IP-access to GlobalRoamer
- architecture of SITE or GlobalRoamer
- SITE or GlobalRoamer GUI
- SITE or GlobalRoamer data base
- testing (with the delivered test cases) with SITE or GlobalRoamer
- analysis of the test results
- explanation of the reporting tool
- explanation of the Measurement Strategy and KPI calculation
- exercises with different reporting methods
- explanation of the alarming tool
- exercises with alarming

Outcome:

After the training the attendees shall
- understand functionalities and the basic concepts
- have a basic understanding of SITE or GlobalRoamer as well as a "distributed system"
- know how the SIM Multiplexer is being used
- have a basic knowledge of the data base and the applications in use
- know the GUI concept
- understand the general concept and the resources (management)
- know test suites and user profiles
- understand the general structure of existing test cases (overview about all test cases)
- be able to create test definitions
- be able to start test runs and understand their operations scheduling
- be able to realize and analyze errors
- be able to analyze the tests results
- be able to export data on various ways
- be able to use control structures
- be able to use the reporting tool

Expected Break Times on Both Days:

11:00 - 11:15	**Morning coffee**
13:00 - 14:00	**Lunch**
15:30 - 15:45	**Afternoon coffee**

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No evening program

SITE & GlobalRoamer User Training

Pre-Registration Required! **Free of charge for conference participants!**

10:00 - 17:00
tba

**Trainer:
tbd**

User Training – Advanced Level

The 2-day User Training Advanced is intended for power-users of the SITE or GlobalRoamer test system (optimizing test scenarios, advanced scheduling).

Content:

Test Editor and Test Administration, creating advanced testing scenarios
- over different locations
- for different services
- for different technologies
- explanation and usage of the Resource Filter
- explanation and usage of the FOREACH structure
- explanation and usage of the SET structure
- intelligent scheduling
- IVR test scenarios
- Reporting

GlobalRoamer focus
- GRQ testing & reporting with best practices
- Steering of Roaming
- LTE & CSFB
- Data Capacity benchmarking
- Multi Rab testing
- Single Service Indicator

Outcome:

After the training the attendees shall
- know how to use the test system most efficiently, achieving a significant reduction of the time spent on creating the test scenarios
- be able to create optimized testing scenarios
- be able to use the FOREACH and SET structures for further optimization of the testing setups
- be able to use the Resource Filter
- be able to perform intelligent scheduling
- know how to perform IVR test scenarios
- be able to use the reporting tool
- understand and configure SSI reports
- be able to set up GRQ testing and reporting
- be able to set up MultiRab and LTE test cases
- be able to test Steering of Roaming

Expected Break Times on Both Days:

11:00 - 11:15	**Morning coffee**
13:00 - 14:00	**Lunch**
15:30 - 15:45	**Afternoon coffee**

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No evening program