

Roamingwise

Customised Training





*Milja Hofman,
your trainer*

Roamingwise offers trainings on a broad range of International Roaming topics

As a Telecom Operator you want to have your Roaming team up-and-running fast and launch Roaming Agreements as quickly as possible.

A new Roaming Coordinator needs to be taught the basics of Roaming and a TADIG Tester TAP in detail. But also, your more experienced team members need to be updated on what is happening in the Roaming World.

Roamingwise can assist you in all this and more!

Roamingwise offers standard training packages, but modules can be combined to deliver the best suitable content. Training days consist of theory and practical exercises.

All trainings are accessible for technical and non-technical people.

Training Courses

- Roaming Essentials
- Roaming Commercials
- Focus Points
- TAP3
- GSM Roaming Testing
- CAMEL Prepaid Roaming
- GPRS and UMTS Roaming
- Roaming Fraud & Revenue Assurance

A description of our roaming training portfolio can be found in this brochure.

Roaming Essentials

This training provides an introduction to the Roaming Industry.

We start with the basic GSM network elements which route a Roaming Call, as this is needed to understand the IREG and TADIG Test processes.

The different steps of launching a Roaming Agreement are described (sign the Roaming Agreement, IREG Testing, TADIG Testing) as well as the various related parties (DCH, FCH and the GSM Association).

Next to bilateral roaming relationships we show roaming via a Roaming Hub and a Dual IMSI Solution.

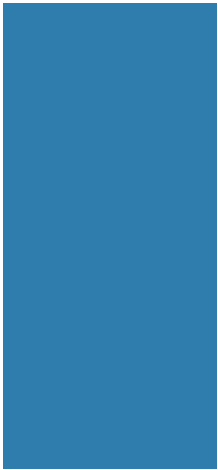
This course offers a solid base for people to start working in the Roaming Team or for people who are working in another field, which is related to Roaming.

Agenda:

- Introduction to Roaming
- The GSM Network Architecture
- Roaming Call Flow
- Launch Process
- Data and Financial Clearing House
- The GSM Association
- Roaming Hub
- Dual IMSI Solution
- Workshop



“This course offers a solid base in Roaming”



Roaming Commercials

How to make Roaming most profitable?

A clear understanding of the cost structure of the various roaming services helps maximising roaming margins. Steering of Roaming and IOT Discount Negotiation are important tools in this.

The IOT (Inter Operator Tariff) is discussed in detail, including different strategies to negotiate discounts.

To put this into practice, the participants will be involved in an inter-active exercise.

This course is targeted at Roaming Managers and Coordinators who are interested in costs structures and are looking for ways to increase their Roaming revenues.

Agenda:

- Wholesale Pricing and Costs
- Retail Pricing and Margins
- How Regulation influences Pricing
- Steering of Roaming (SoR)
- IOT Discount Negotiation
- Inter-active Exercise
- Marketing in Roaming
- Know and Increase your Inbound Market Share

Focus Points

With a focus on CAMEL Prepaid Roaming and the developments in Data Roaming (including LTE) we include latest info on Wi-Fi and M2M roaming in this day.

After this day you are up-to-date with current roaming developments.

Agenda:

- CAMEL Prepaid Roaming
- Minimise USSD Call-back on your Network
- Data Roaming (GPRS and UMTS network and testing)
- LTE Roaming (network and EPC / VoLTE testing)
- Wi-Fi Roaming
- M2M Roaming
- RAEX
- Summary Latest N & I Sharing Event

*“What is happening
in the Roaming
Industry?”*

TAP3

This training gives an overview of TAP3 and its latest standard.

The most important fields are highlighted and shown along with TD.57, the Permanent Reference Document of the GSM Association. An overview of the Rejects & Returns process is provided, as well as a short summary of the main topics that were discussed during the latest GSM Association TADIG meeting.

The day finishes with an exercise and during the day there is sufficient time for



questions.

This course is a thorough basis for starting TADIG Testers or people in the Billing department who need to know more about TAP in general.

Agenda:

- Introduction to TAP
- TD.57 TAP Format Specification
- Latest TAP Release in Detail (TAP3.12)
- Rejects and Returns (RAP)
- GSMA TADIG Update
- TAP3 Exercise

GSM Roaming Testing

This is a training session, which focuses on how to launch GSM Roaming: the Testing process.

This consists of a Network (IREG) and Billing (TADIG) Test. The objective behind IREG Testing is to evaluate the capability and quality of service that roamers will experience when visiting a Visited Network.

Going through the different scenarios of the IREG Test, the course will then concentrate on the procedures to be followed to carry out the TADIG Test. The mandatory fields in the TAP File are explained and during exercises these fields are checked against the IREG Test scenarios.

This course is perfect for starting TADIG Testers and Roaming Coordinators who want to know more about the GSM IREG and TADIG Test process.

This day can be extended with IREG and TADIG Testing for GPRS, UMTS and CAMEL Prepaid Roaming.

Agenda:

- Introduction to Roaming Testing
- GSM Network Testing (IREG)
- GSM Billing Testing (TADIG)
- Examples GSM IOTs
- GSM TADIG Test Demo
- GSM TADIG Test Exercise
- Hands-on TADIG Testing with live files

“IREG and TADIG”

CAMEL Prepaid Roaming



This day starts by giving the participants an overview of the CAMEL network architecture and the different functionalities CAMEL offers.

As prepaid Roaming is real-time charged, the network elements as well as the TAP file involved are discussed.

Continuing with the CAMEL launch process, CAMEL IREG and TADIG Testing are covered and the day finishes with an exercise.

As this day covers CAMEL IREG and TADIG Testing, knowledge of GSM IREG and TADIG Testing is a prerequisite.

The course 'Roaming Testing' is highly suitable for this. This course is suitable for Network and Billing people who need to see in detail what the CAMEL test process entails, as well as for Roaming Managers and Coordinators who want to receive an overview for their understanding.

Agenda:

- CAMEL Network Architecture
- CAMEL Billing and Charging
- CAMEL IREG and TADIG Testing
- Examples CAMEL IOTs
- CAMEL TADIG Test Demo
- Hands-on TADIG Testing with live files

GPRS and UMTS Roaming



This training starts with the basic architecture of GPRS.

The full GPRS Roaming launch process is explained (Roaming Agreement, GPRS IREG and TADIG Testing) and you practice with TADIG Testing. After this, these processes are described for UMTS Roaming. We finish the day with TADIG Test exercises. There is sufficient time for questions about possible current issues with files.

As this day covers IREG and TADIG Testing, knowledge of GSM IREG and TADIG Testing is a prerequisite.

The course 'Roaming Testing' is highly suitable for this.

This course is meant for Roaming Managers and Coordinators who want to be informed about these services and TADIG Testers who need to extend their knowledge with the GPRS and UMTS test cases.

Agenda:

- GPRS Network Architecture and GRX
- GPRS Roaming Agreement
- GPRS IREG Testing
- GPRS TADIG Testing
- Example GPRS IOTs
- GPRS TADIG Test Demo
- GPRS TADIG Test exercise
- UMTS Network Architecture
- UMTS IREG and TADIG Testing
- Hands-on TADIG Testing with live files

Roaming Fraud & Revenue Assurance

Fraud and revenue assurance are hot topics in the roaming world.

This day offers an insight into the most common roaming fraud practices and how to minimize chance on fraud in the roaming industry.

We start the day with an overview of the different types of Telecom and Roaming Fraud.

Next, an overview is provided of the mandatory Fraud solution: NRTRDE, including the file format as described in TD.35, the Permanent Reference Document of the GSM Association.

How to make sure revenues are not lost in the process and which way reporting can take place is followed by an inter-active workshop.

This course is suitable for Fraud Managers, Roaming Managers and Roaming Coordinators.

Agenda:

- Most Common Roaming Fraud Practices
- NRTRDE Solution
- TD.35 File Format
- Update Latest FASG
- Revenue Assurance in Roaming
- Reporting and KPIs
- Workshop

*“Roaming Fraud,
a current issue”*