

[TRAINING SHEET]

Training: IN-FACTORY

Measuring the Leaves of your Network –
get QVoice Knowledge for a perfect
understanding.



QVOICE SYSTEMS

BASICS FOR QVOICE SYMPHONY & QVOICE PRESENTATION – 4 DAYS

SUITABLE FOR

This basic training is required to operate and handle the QVoice system. Every user needs to get started with this training.

- It is required on the first purchase order together with the installation and commissioning of the QVoice system.
- It is also required for all new users that will start working with an existing QVoice system.

CONTENT

The training covers the aspects of starting a data acquisition, transfer data to the data post-processing tool, use data post-processing, and how to maintain/administrate the QVoice equipment.

COURSE OBJECTIVES

After completion of this training, the participant should be able to:

- Configure the QVoice data acquisition equipment (Symphony) to measure mobile radio network systems (2G, 2.5G, 3G and 3.5G)
- Understand general KPI's for Voice, Data, SMS, MMS and VT tests and configure adequate related measurement scenarios
- Post-process acquired data, having the know-how to build reports, represent and compare drives on a map, analyze calls, use expert outputs, and therefore to adequately optimize and monitor mobile networks'

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KNOWLEDGE REQUIREMENTS

Level 1, Basic Radio-Access Network Technology knowledge.

ASCOM TRAINING CENTRE

The Ascom Training centre provides the participant with:

- A highly constructive environment, away from trainees daily activities
- Ready to use installations for up to 6 trainees
- Latest System Release of QVoice equipment used
- An example of a car installation present
- If there is only one customer, the training agenda can be tailored to the customer's needs

OVERALL INDICATION

The contents of the training may be altered according to the changes in need or technology. The customer is welcome to ask for any special topics. Ascom is free to do changes without notice..

CONTENT

The training covers the aspects of starting a data acquisition, transfer data to the data post-processing tool, use data post-processing, and how to do maintenance/administration of the QVoice equipment.

QVOICE OVERVIEW

- An overview of QVoice equipment for data acquisition and data post-processing

CALL HANDLING BY QVOICE

- Differentiate the call markers and the related call status
- Know the reason behind a failed or a dropped call
- Describe the inband signalling
- Define the 2 types of calls (MOC/MTC)

SPEECH QUALITY EVALUATION

- Describe what MOS is
- Understand how the MOS analysis is done in QVoice
- Classify the Speech Quality regarding the received MOS value

QVOICE HARDWARE AND SYMPHONY SOFTWARE DESCRIPTION

- Know the different hardware components of QVoice
- Know the different handsets used with QVoice
- Explain the Symphony software structure

SYSTEM CONFIGURATION AND OPERATION

- Hardware component interactions
- Configure the editors and create a measurement job
- Import own maps
- Display the measurement values
- Configure a workspace
- Export the measurement files

MEASUREMENT AND SERVICE DESCRIPTION

- Create an overview of the different measurements and services available with QVoice
- Know the different measurement parameters and their implication within Symphony
- Be able to configure the different measurement scenarios

QVP ENVIRONMENT AND OVERVIEW

- Describe the post-processing components
- Differentiate the analysis tools and their functions

QVP ADMINISTRATOR

- Manage the QVP-Databases
- Import and handle measurement files with QVP-Administrator
- Creation and management of a Cell-List (GSM-WCDMA-CDMA)
- Manage the regions based on cell and or indoor locations

FLEXIBLE DATA SELECTOR AND COMMANDER

- Create a data set (a set of data based on filtering-criteria) using the Flexible Data Selector FDS
- Post-process a specific dataset using the Commander CMD

QVP MAP

- Display values (i.e. call markers, speech MOS, radio parameters) on a map
- Display cells and serving cells
- Use the Grid functionalities (for Statistics and 'Best in class')
- Investigate radio issues on a specific measurement point

QVP NETWORK ANALYSER

- Use the different analysis tools i.e. Line-Chart, Message Explorer, Message Observer, Live-overview, WCDMA RSCP and Ec/Io window, RF-Scan and C/I windows, WCDMA Pilot and RSSI windows, CDMA Pilot and RSSI window
- Synchronize calls together with QVP Map and QVP Expert
- Perform a call analysis, using Network Analyser and other QVP applications

QVP REPORT

- Create a predefined Report
- Customize Reports, according to CMD Flexibility
- Edit an existing QVP Report, using Crystal Report

QVP REPORT FOR EXCEL AND EXPERT

- Create a data-row or a distribution report with Excel
- Use the Expert Analyser for 2G, 2.5G, 3G and 3.5G analysis
- Work with Pivot Tables to create quick report tables

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