



ENIQ Statistics 19

Training Programs

Catalog of Course Descriptions



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INTRODUCTION	3
ENIQ 19 OVERVIEW AND OPERATION	5
ENIQ 19 SYSTEM ADMINISTRATION.....	9
NETWORK ANALYTIC SERVER (NAS) IN ENIQ 19	13



Introduction

Ericsson has developed a comprehensive Training Programs service to satisfy the competence needs of our customers, from exploring new business opportunities to expertise required for operating a network. The Training Programs service is delineated into packages that have been developed to offer clearly defined, yet flexible training to target system and technology areas. Each package is divided into flows, to target specific functional areas within your organization for optimal benefits.

Service delivery is supported using various delivery methods including:

Delivery Method

Instructor Led Training (ILT)

Web-based Learning (WBL)





ENIQ 19 Overview and Operation

LZU1082856 R1A

Description:

ENIQ, KPI, BIS, WAS, IQ! Too many abbreviations? Not enough time?

With the increasing volume of statistical data generated by your network (2G/3G/4G, IMS, LTE, IP convergence), you will need to understand the new Ericsson performance management solution, ENIQ. You will also want to know how it can support statistics for Ericsson and other vendor's technologies.

This course is intended for users who are new to ENIQ but are familiar with Performance Management (PM). It describes the functionalities of the latest ENIQ and how it brings value to your business. It also provides a practical understanding on how to use the Product Reports and how to customize your own reports.

Learning situation:

This is an Instructor-Led Training.

This course is based on theoretical and practical instructor-led lessons given in a technical environment using equipment and tools.

Learning objectives:

On completion of this course the participants will be able to:

- 1 Relate to the ENIQ reporting solution
 - 1.1 Illustrate the ENIQ and Network Evolution
 - 1.2 Identify the ENIQ Statistics Highlights
 - 1.3 Perform launching ENIQ from OSS/ENM
 - 1.4 Analyze the Evolution of ENIQ Statistics
 - 1.5 Demonstrate the ALEX documents for ENIQ
- 2 Discuss the basic concepts involved in ENIQ
 - 2.1 Identify reasons why ENIQ was introduced
 - 2.2 Recognize the relationship between the ENIQ components
 - 2.3 Name the benefits of Sybase IQ over alternative types of databases
 - 2.4 Underline the degree of integration of ENIQ with OSS-RC/ENM
- 3 Describe the Ericsson Network IQ performance management solution
 - 3.1 Clarify the network configuration
 - 3.2 Identify the ENIQ related application
 - 3.3 State in one's own words how the data reaches the reports
 - 3.4 Explore the ENIQ Universes

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- 3.5 Clarify the data aggregation principles
- 4 Illustrate ENIQ Counters and Aggregations
 - 4.1 Demonstrate ENIQ performance counters
 - 4.2 Clarify ENIQ data aggregation
- 5 Perform the reporting operations using templates
 - 5.1 Recognize the Web Intelligent Rich Client
 - 5.2 Identify the Reports Templates
- 6 Practice the reporting operations
 - 6.1 Explore the Web Intelligence Rich Client
 - 6.2 Run a product sub-report
- 7 Manage sub-reports
 - 7.1 Schedule a sub-report using CMC
 - 7.2 Manage sub-report instances
 - 7.3 Administer Business Objects access
- 8 Define an ad-hoc report
 - 8.1 Create a sub-report (Raw, Day, Day BH)
 - 8.2 Use a customized busy hour criterion
 - 8.3 Select query objects
 - 8.4 Filter a query
 - 8.5 Create once-off operational KPI's at report level
 - 8.6 Publish a customer report set
- 9 Customize reports design
 - 9.1 Explore tables and charts
 - 9.2 Use formats and format templates
 - 9.3 Modify a product sub-report
- 10 Explain the Statistical Alarms module
 - 10.1 Clarify the workflow relating to performance alarm generation
 - 10.2 Recognize the different types of templates, and when to use them
 - 10.3 Examine a defined alarm type, using the Web Intelligence Rich Client
 - 10.4 Analyze a defined alarm type, using the alarm configuration interface

**Target audience:**

Service Planning Engineer, Service Design Engineer, Network Design Engineer, Network Deployment Engineer, Service Deployment Engineer, System Technician, Service Technician, Service Engineer, System Engineer, Field Technician, System Administrator, Application Developer, Business Developer, Customer Care Administrator

Prerequisites:

Successful completion of the following courses:

Core or Radio Access Network Fundamentals

Be familiar with Performance Management for a given managed technology (Core, GSM, WCDMA, LTE, etc.)

Duration and class size:

The length of the course is 4 days and the maximum number of participants per session is 8.





ENIQ 19 System Administration

LZU1082855 R1A

Description:

This course is for anyone responsible for the administration of an Ericsson Network IQ (ENIQ) Statistics System. It will focus on the basic daily, weekly and monthly tasks to be performed by an ENIQ System Administrator.

It gives one perspective by experiencing the reporting aspect of ENIQ, and by looking at what happens behind the scene to make ENIQ a future-proof performance management solution.

Note: This course will detail the administration of ENIQ; it does not deal with specific counter values, KPI's interpretation, OSS-RC/ENM/Solaris or Sybase administration; this is covered in the corresponding courses.

Learning situation:

This is an Instructor-Led Training.

This course is based on theoretical and practical instructor-led lessons given in a technical environment using equipment and tools.

Learning objectives:

On completion of this course the participants will be able to:

- 1 Examine the ENIQ System
 - 1.1 Identify the reference architecture for ENIQ
 - 1.2 Examine the ENIQ statistics deployments
 - 1.3 Explore the Dataflow in ENIQ
 - 1.4 Identify the ENIQ BI Launch Pad
 - 1.5 Analyze other ENIQ PM tools
- 2 Discuss the system specifications
 - 2.1 Identify the ENIQ System
 - 2.2 Analyze ENIQ Statistics Components
 - 2.3 List the main Hardware on HP blades
 - 2.4 Identify Sybase IQ architecture
 - 2.5 Verify ENIQ/OSS/ENM configurations
- 3 Perform system maintenance tasks
 - 3.1 Perform Unix commands for system maintenance
 - 3.2 Explore users using Central Management Console (CMC)
 - 3.3 Verify BO applications and Reports using CMC
 - 3.4 Monitor the ENIQ systems using adminUI
 - 3.5 Configure ENIQ using adminUI

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- 3.6 Verify the healthy and consistent file system using adminUI
- 3.7 Adjust data retention using adminUI
- 3.8 Manage busy hours with adminUI
- 3.9 Outline the principles of backup management
- 3.10 Investigate the alarm management module

- 4 Analyze the data workflow
 - 4.1 Browse the directory structure
 - 4.2 Manually upload data
 - 4.3 Monitor the data loading
 - 4.4 Monitor the data aggregations and initiate data re-aggregation
 - 4.5 Configure monitoring thresholds
 - 4.6 Verify the data

- 5 Examine the structure of the Sybase IQ database
 - 5.1 Analyze the partitioned tables and the views
 - 5.2 Correlate the data and database users
 - 5.3 Investigate partitions types, views and plans
 - 5.4 Query the database using SQL GUI's or CLI

- 6 Practice the administration tasks and experience the tools
 - 6.1 Recall the data workflow and the administration tools
 - 6.2 Examine daily system administration tasks
 - 6.3 Perform some weekly administration tasks
 - 6.4 Plan the monthly administration tasks
 - 6.5 Consider non-ENIQ tasks
 - 6.6 Determine roles and responsibilities
 - 6.7 Identify known issues and troubleshoot them

**Target audience:**

System Administrator, Network Deployment Engineer, Service Deployment Engineer, Application Developer

Prerequisites:

Successful completion of the following courses:

ENIQ 19 Overview and Operation, LZU1082856

Core or Radio Access Network Fundamentals

Be familiar with Performance Management for a given managed technology (Core, GSM, WCDMA, LTE, etc.)

Intermediate System Administration for the Solaris operating System

Duration and class size:

The length of the course is 3 days and the maximum number of participants per session is 8.





Network Analytic Server (NAS) in ENIQ 19

LZU1082854 R1A

Description:

Network Analytics Server (NAS) is a centrally managed platform that provides the infrastructure to support the creation, delivery, modification and consumption of various types of analyses using the data stored in ENIQ. This course gives you a focused learning opportunity of NAS and you will get to perform hands-on exercises to get to experience and uncover new dimensions, trends or patterns in the data and empower data-driven decisions. NAS supports Guided Analysis, where the user is provided with a pathway through the data and Ad-Hoc Analysis which allows the user to easily create or modify analysis.

Learning situation:

This is an Instructor-Led Training.

This course is based on theoretical and practical instructor-led lessons given in a technical environment using equipment and tools.

Learning objectives:

On completion of this course the participants will be able to:

- 1 Introduction to NAS
 - 1.1 Illustrate the NAS solution
 - 1.2 Show the data driven decisions
 - 1.3 Explain Cases and Analytics Guidance
 - 1.4 Shows the availability for Statistics and Events
- 2 Discuss the Ericsson NR KPI Dashboard
 - 2.1 Identify the dependent Techpacks
 - 2.2 Show the NR KPI Dashboard
 - 2.3 Name the KPI definitions
 - 2.4 Underline the data tables
 - 2.5 Clarify the NR KPI Dashboard Information Package
- 3 Perform the IMS Capacity
 - 3.1 Recognize the purpose of the feature
 - 3.2 Identify the dependents Techpacks
 - 3.3 Explore the KPI and counter definitions
 - 3.4 Show the data tables

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- 3.5 Clarify the IMS capacity analysis information package
- 4 Practice the LTE Optimization feature
 - 4.1 Explore the KPI and Counter definitions
 - 4.2 Identify the data tables
- 5 Understand the RAN Performance Overview
 - 5.1 Verify the dependent Techpacks
 - 5.2 Clarify the RAN performance Overview
 - 5.3 Show the KPI definitions
 - 5.4 Explore the data tables
 - 5.5 Recognize the RAN performance Overview - LTE
 - 5.6 Recognize the RAN performance Overview - WCDMA
- 6 Recognize the VoLTE
 - 6.1 Explore the dependent Techpacks
 - 6.2 View KPI definitions
 - 6.3 Verify the data tables
 - 6.4 Illustrate the VoLTE Information package
- 7 Identify others features
 - 7.1 Show the App Coverage Map Feature
 - 7.2 Understand the Energy Report Feature
 - 7.3 Illustrate the RAN Capacity Feature
 - 7.4 Explore the RAN Uplink Feature
 - 7.5 Examine the TWAMP Feature
 - 7.6 Clarify the VoEi-Fi Feature

**Target audience:**

This course is suitable for anyone who is required to have detailed knowledge of Service Planning Engineer, Service Design Engineer, Network Design Engineer, Network Deployment Engineer, Service Deployment Engineer, System Technician, Service Technician, Service Engineer, System Engineer, Field Technician, System Administrator, Application Developer, Business Developer, Customer Care Administrator

Prerequisites:

Successful completion of the following courses:

Core or Radio Access Network Fundamentals

Be familiar with Performance Management for a given managed technology (Core, GSM, WCDMA, LTE, etc.)

ENIQ 19 Overview and Operation - LZU1082856

Duration and class size:

The length of the course is 2 days and the maximum number of participants is 8