



Granite Inventory - Wireless

Release 8.2

Training Course Catalog



OSS BSS Education Services
Commercial in Confidence





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Ericsson OSS BSS Education Services Overview

From an initial product launch to its smooth-running operation, every technology investment depends on and requires an investment in people. Their knowledge, productivity, and competence are critical components of any carrier's continued success.

To help ensure that your project begins with the best possible start and continues to provide the highest Return on Investment (ROI), we have created a portfolio of "best practice" tried and tested education and training offers for our products.

A Heritage of Education

Known for getting it right the first time, we've been training telecommunications professionals worldwide for more than 25 years. We're proud of the quality and skills of our education consultants, and it's our goal to help our clients and partners complete the same rigorous education regimen and achieve the same benchmarks that we have set for ourselves.

Sometimes, "off-the-shelf" can be slightly off-the-mark.

No matter how varied and adaptable we make our courses and materials we understand that some companies and situations require their own arrangements. Our flexible training options are designed to give you the training content and format that serve your methods and procedures, work center technologies and environments, performance objectives, and/or employee roles and responsibilities.

Our training solutions help our partners and clients get the best business results from their software investments. To help ensure that we deliver just the information that you need, when you need it, our consulting engagements begin with a Training Needs Analysis. Then, our comprehensive training consulting services can adapt or custom-design instructor-led or online courses, as well as supporting materials. We can also work with your employees as coaches and mentors.

Ericsson OSS BSS Education Services provides the following:

- Training Needs Analysis (TNA)
- Instructor-led Classes
- E-Learning based Classes
- Customized Training

Our instructor led courses can be delivered either at the client's site or at an Ericsson training center. In addition, we frequently run a series of public courses at a number of global locations that allow "fast track" progression of knowledge transfer, using real world exercise sets and instructional aides.

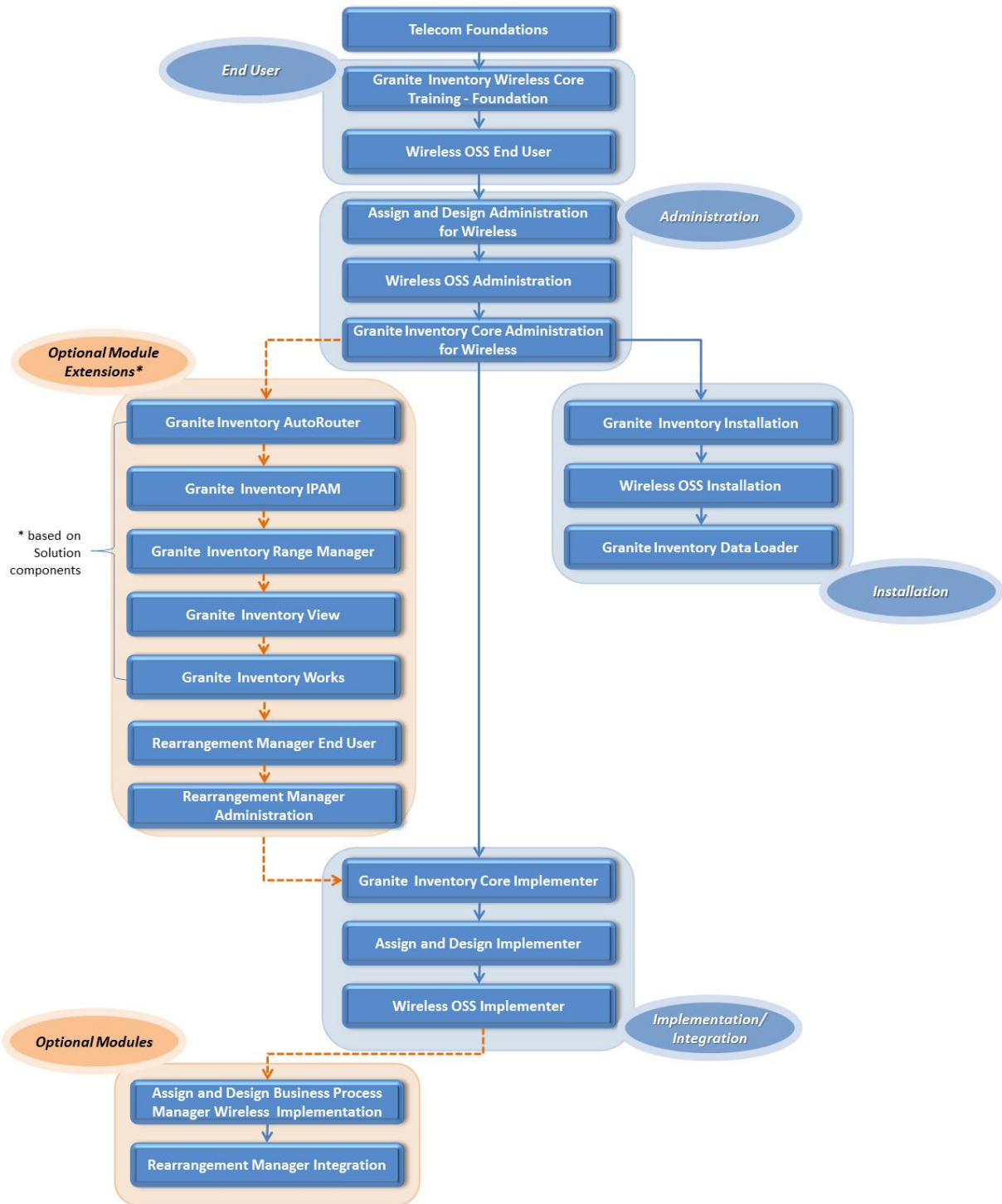
Ericsson OSS BSS Education Services envisions education as an integral part of your continued success. This model is supported by our exceptional Training Needs Analysis methodology, which is designed to ensure that your staff receives the best, most convenient education at a competitive cost. Our experts also fully support your staff throughout the lifecycle of your relationship with Ericsson by providing frequent follow-up analysis of training requirements and values.

Ericsson looks forward to exceeding your training needs.



Granite Inventory Wireless 8.2 Course Flow

A logical flow of courses in this catalogue is as follows:





Granite Inventory Assign and Design Administration for Wireless

OBES GI-01-04

Granite Inventory Assign and Design (Assign and Design) is a flow-through assignment engine that implements various inventory and assignment solutions to model given technologies and their related services in Granite Inventory. The common technology-agnostic framework and rule driven plug-ins can be configured “out of the box”, for specific technologies, by deploying COTS automation modules. Assign and Design system behavior can be customized and extended.

The Wireless OSS (WOSS) Solution leverages the functionality of Assign and Design to provide automated creation of complex wireless network objects. This is achieved by a rich set of configurations and plug-ins to support the management of Wireless inventory objects, including logical network nodes, physical equipment and network connectivity.

The Granite Inventory Assign and Design Administration course is intended to provide the student with information on the supporting Assign and Design and Granite Inventory reference data and how this reference data can be modified to configure and customize the product using the Assign and Design Configuration GUI.

Description

This instructor-led course with hands-on activities is designed to introduce participants to the Assign and Design Configuration Client and to become familiar with its functionality. Concepts are focused on administration of the Assign and Design components of the Wireless OSS (WOSS) Solution. The participants will learn how to access the Configuration GUI and understand, navigate and maintain configuration data that is provided with the WOSS Solution.

Learning objectives

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

- Utilize the Assign and Design Configuration GUI to configure the product

Target audience

The target audience for this course is Network Design Engineer, Network Deployment Engineer, Services Design Engineer, Services Deployment Engineer, System Administrator, and Application Developer

Prerequisites

Successful completion of the following courses:

- Granite Inventory End User
- Granite Inventory Administration Client
- WOSS End User
- General telecom/Radio Access Network knowledge

Topics in the course

Estimated Time (minutes)

Topics in this course include:

- Introduction to Assign and Design and Granite Inventory reference data
- View database updates for a primary object

- View primary object templates in Granite Inventory
- Navigate the configuration GUI
- View and modify wireless reference data
- Create and apply a new UDA group and attributes

Discuss plug-in registration and notifications

- Hands-on exercises and view results

Duration and class size

- The length of the course is 1 day.
- The maximum number of participants is 12.

Learning situation

This course is based on instructor led lessons, demonstrations and theoretical exercises.



Granite Inventory Assign and Design Implementer

OBES GI-01-06

Granite Inventory Assign and Design Module (Assign and Design) is a configurable and extensible assignment engine that automates the management of key objects in the Granite database. Assign and Design enables flow-through provisioning by automating key operations such as assignment, building inventory on-the-fly, assignment correction and completion.

The technology-agnostic framework can be configured “out of the box” for specific technologies by deploying COTS automation modules. The Wireless OSS Solution is built on such an automation module.

System Integrators can further customize Assign and Design through configurable reference data and by writing or extending the Java Plug-ins that are provided with the product and the Wireless Solution. In addition, Assign and Design’s open interfaces provide a consistent set of coarse-grained APIs to Orchestration Systems and GUIs

Description

This instructor-led course presents the core Assign and Design architecture and generic customization points, as well as the Wireless configurations and plug-ins.

Participants are provided an overview of the customization and interfacing capabilities of Assign and Design in the Wireless context. Participants will gain knowledge of how system behavior can be configured using reference data or extended using plug-ins. Building interfaces to Assign and Design will also be discussed.

Learning objectives

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

- Describe the Assign and Design architecture
- Identify the components of the Wireless OSS solution that reside in Assign and Design
- Customize reference data and plug-ins
- Discuss interfacing and localization to Assign and Design

Target audience

The target audience for this course is: Network Deployment Engineer, Service Deployment Engineer and Systems Integrators

Prerequisites

Successful completion of the following courses:

- Granite Inventory End User
- Granite Inventory Assign and Design Administration
- General telecoms/radio access network knowledge
- Java programming experience

Topics in the course

Estimated Time (minutes)

Topics covered in this training course include:

- Brief introduction of automation modules and customization options
- Assign and Design architecture
- Wireless solution components
- Writing plug-ins

- Assign and Design common services and methods
- Interfacing to Assign and Design
- Creating client applications
- Localization

Duration and class size

- The length of the course is 4 days.
- The maximum number of participants is 12.

Learning situation

This course is based on instructor led lessons, demonstrations and theoretical exercises.



Granite Inventory Core Administration

OBES GI-00-40

Granite Inventory is a comprehensive Service Resource Management platform that stores and customizes all the physical and logical resources a Communications Service Provider (CSP) needs to manage its network and services.

The Granite Inventory Core Administrator or a user with appropriate privileges can configure the Granite Inventory System settings, create and manage user access and privilege profiles and monitor application license usage.

The Granite Inventory Core Administration training course is intended for Systems Administrators and/or Administrators who have responsibility in managing the system configuration and administration of the Granite Inventory Core application.

Description

This instructor-led course will teach participants about basic client setup, domains, validation tables, and advanced administration and customization. Participants will also walk through the system settings that are available in the Administration Client.

Learning objectives

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

- Perform tasks such as administrating, configuring and updating systems settings and adding features
- Create new users, assign and create new privilege profiles

Target audience

The target audience for this course is:
System Administrators

Prerequisites

Successful completion of the following courses:

- Granite Inventory Fundamentals
- Granite Inventory End User
- Granite Inventory Admin Client
- General telecom knowledge

Topics in the course

Estimated Time (minutes)

Topics covered in this training course include:

- Basic client set up
- Managing user accounts
- Managing privilege profiles
- Domains
- Defining system and local settings
- Hands-on exercises and activities

Duration and class size

- The length of the course is 1 day.
- The maximum number of participants is 12.

Learning situation

This course is based on instructor led lessons, demonstrations and theoretical exercises.



Granite Inventory Core Implementer

OBES GI-00-28

Granite Inventory is a comprehensive Service Resource Management platform that stores and customizes all the physical and logical resources a Communications Service Provider (CSP) needs to manage its network and services.

Implementing the Granite Inventory Core application requires substantial technical skills and knowledge in understanding the inventory database structure and using tools to access inventory data programmatically. It may also require developers and programmers to create plug-ins that implement rules for validation and authentication, or use Java Message System (JMS) Events when transactions with the Granite Inventory database occur. Skills in writing adapters to collect data directly from telecommunication network elements for populating the Granite Inventory database may also be required when implementing the Granite Inventory Core application.

The Granite Inventory Core Implementer training course teaches the skills required to implement the Granite Inventory product as part of a broader OSS solution.

Description

This instructor-led course will teach participants to use ASI/APIs, web services and XML adapters to access the Granite Inventory data, as well as collect external data directly from network elements. The course will also demonstrate the processes involved in generating transaction events and plug-ins.

Learning objectives

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

- Understand how Granite Inventory objects are supported by their underlying database tables
- Use the ASI to access, create, modify and delete Granite Inventory objects
- Set up and test JMS Events
- Work with the Web Services Toolkit that enables Granite Inventory database objects to be used in web service

- Understand various types of plug-ins available for Granite Inventory
- Understand how XML adapters can be used to collect data directly from network elements

Target audience

The target audience for this course is:
Network Deployment Engineer, Service Deployment Engineer and Systems Integrators

Prerequisites

Successful completion of the following courses:

- Granite Inventory Fundamentals
- Granite Inventory End User
- Granite Inventory Administration Client
- Granite Inventory Core Administration
- Knowledge of Oracle/SQL, Java, Eclipse IDE, WebLogic and Services Oriented Architecture (SOA)

Topics in the course

Estimated Time (minutes)

Topics covered in this training course include:

- Overview of the object tables
- Overview of ASI/APIs
- Using the ASI to access inventory objects
- Configuring JMS Events message contents
- Introduction and overview of plug-ins
- Overview of Web Services Toolkit and its architecture
- Overview of Granite Inventory XML Gateway module
- Extensive hands-on exercises and activities

Duration and class size

- The length of the course is 5 days.
- The maximum number of participants is 12.

Learning situation

This course is based on instructor led lessons, demonstrations and theoretical exercises.



Granite Inventory Data Loader

OBES GI-00-15

Granite Inventory is a comprehensive Service Resource Management platform that stores and customizes all the physical and logical resources a Communications Service Provider (CSP) needs to manage its network and services.

The Granite Inventory Data Loader Module is a utility provided mainly for inserting large quantities of data into the database, such as when a new Granite Inventory system is being deployed or when large quantities of data are being migrated among systems. The process of migrating large quantities of data to the Granite Inventory database requires knowledge of the relationship between the data set and the database schema and also an understanding of the rules or business logic of the Granite Inventory system.

The Granite Inventory Data Loader Module training course is intended for Granite Inventory database administrators and those involved with initial database population and/or bulk loading data.

Description

This instructor-led course will teach participants to load Granite Inventory objects via the Data Loader module. Participants will learn to use Data Loader module and gain a basic understanding of Oracle Data Integrator (ODI).

Learning objectives

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

- Install and configure Data Loader
- Load data from source files into Granite Inventory data tables
- Understand how to use ODI to load data
- Understand how to investigate Data Loader module errors and failures

Target audience

The target audience for this course is:
Database Administrators and
Systems Integrators

Prerequisites

Successful completion of the following courses:

- Granite Inventory End User
- Granite Inventory Administration Client
- Granite Inventory Core Administration

Duration and class size

- The length of the course is 2 days.
- The maximum number of participants is 12.

Learning situation

This course is based on instructor led lessons, demonstrations and theoretical exercises.

Topics in the course

Estimated Time (minutes)

Topics covered in this training course include:

- Overview and introduction to Data Loader module including ODI
- Examination of the Granite Inventory object table
- Hands-on exercises creating and entering objects using Data Loader
- Discussion and report of data loading errors



Granite Inventory Foundation for Wireless

OBES GI-01-01

Granite Inventory is a comprehensive Service Resource Management platform that stores and customizes all the physical and logical resources a Communications Service Provider (CSP) needs to manage its network and services.

The Granite Inventory application has two Graphical User Interfaces (GUIs) that are designed to assist End Users and Administrators set up, configure and maintain object records within the Granite Inventory database.

The Granite Inventory Foundation for Wireless training course is intended for those individuals responsible for performing network configuration and management tasks using the both the Granite Inventory End User and Administration clients.

Description

The Granite Inventory End User Client GUI provides a rich user experience, with access to all elements and all functionality of the Granite inventory while the Granite Inventory Administration Client GUI provides general-purpose access to administrative and modeling functionality in support of the Granite Inventory system.

This course introduces students to the functionality of both of these GUIs and through a series of hands-on exercises the students will learn how to create, update, and work with elements of a typical Radio Access Network (RAN) to configure, view, amend and extend the inventory as well as configure, view, amend and extend the inventory using all tools available.

Learning objectives

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

- Know about Granite Inventory functionality

- Understand how certain telecoms processes can be managed using Granite Inventory
- Participate in solution design discussions
- Understand the process and concepts involved in modeling a network within the Granite Inventory application
- Experience working with wireless RAN objects using the generic Granite Inventory End User GUI
- Comprehensive hands-on exercises to model a RAN in the End User GUI
- Extensive creation of various Granite Inventory objects
- Working with templates to build new records
- Creating Inventory object templates
- Configuration of Validation Tables
- Bandwidth configuration
- The use of User Defined Attributes (UDAs)
- Creating Advanced Modeling Objects (AMOs)
- Hands-on exercises and activities

Target audience

The target audience for this course is:

Network Design Engineer, Network Deployment Engineer, Services Design Engineer, Services Deployment Engineer, and Application Developer

Prerequisites

Knowledge of:

- General telecom

Topics in the course

Estimated Time (minutes)

Topics covered in this training course include:

Duration and class size

- The length of the course is 5 days.
- The maximum number of participants is 12.

Learning situation

This course is based on instructor led lessons, demonstrations and theoretical exercises.



Granite Inventory Installation

OBES GI-00-09

Granite Inventory is a comprehensive Service Resource Management platform that stores and customizes all the physical and logical resources a Communications Service Provider (CSP) needs to manage its network and services.

The Ericsson Inventory Installation training course is intended for Systems Administrators and Oracle DBA Administrators who will be responsible for the Granite Inventory installation and providing system support including administration and proactive maintenance of the Granite Inventory core application.

Description

This instructor-led course will teach participants to install, configure, and maintain a Granite Inventory Core System environment. Server hardware and software requirements will be outlined and recommendations for optimum performance and reliability will be proposed.

Learning objectives

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

- Install, configure and maintain Granite Inventory Core system
- Use predefined template to create a Granite Inventory instance within an Oracle application
- Install Oracle WebLogic
- Create Granite Inventory domain within the WebLogic middle tier application server
- Produce fully-functional Granite Inventory Core application
- Create Granite Inventory Xperadmin and regional

database schemas within Oracle

- Configure JDBC data sources for the Granite Inventory database schemas

Target audience

The target audience for this course is:
System Administrators

Prerequisites

Successful completion of the following course:

- Granite Inventory Fundamentals
- General telecom knowledge
- UNIX/Solaris, WebLogic, Oracle, SQL

Topics in the course

Estimated Time (minutes)

Topics covered in this training course include:

- Granite Inventory installation and getting started
- Oracle XCOM instance

- Configure Granite Inventory system
- Set up Oracle WebLogic server
- Set up Granite Inventory Beans application
- Install Granite Inventory license service
- Install Granite Inventory clients
- Install regional database
- System administration in the Administration Client
- Proactive maintenance/support

Duration and class size

- The length of the course is 5 days.
- The maximum number of participants is 6.

Learning situation

This course is based on instructor led lessons, demonstrations and theoretical exercises.



Wireless OSS (WOSS) Administration

OBES GI-01-05

The Wireless OSS (WOSS) Solution is a commercial off-the-shelf network management application that supports the hierarchical navigation, creation and ongoing management of wireless inventory across multiple vendors.

The WOSS Solution provides a use-case specific, faster method of implementing wireless technologies in Granite Inventory and allows for extensions and upgrade with growth in new technology, product and business needs.

The WOSS Solution Administration training course is intended for system administrators, system integrators and anyone who needs to understand the system configuration, maintenance and installation of the WOSS Solution components.

Description

This instructor-led training with hands-on activities will provide an overview of the administration tasks (system control, configuration maintenance and installation) for the WOSS Solution. It will also cover Granite Inventory and Assign and Design WOSS-related administration.

Participants will learn about the administration and system configuration of the WOSS solution and how it fits into the wider administration of the Granite Inventory suite.

Learning objectives

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

- Describe the WOSS solution architecture and components
- Perform application control, monitoring, cleanup and maintenance tasks
- Configure Granite Inventory and Assign and Design for the WOSS solution
- Comprehend the main installation steps for the WOSS solution

Target audience

The target audience for this course is:

Network Design Engineer, Network Deployment Engineer, Services Design Engineer, Services Deployment Engineer, , and Application Developer

Prerequisites

Successful completion of the following courses:

- WOSS End User
- Granite Inventory Administration Client
- Assign and Design Administration

Knowledge of:

- Familiarity with WebLogic

Topics in the course

Estimated Time (minutes)

Topics covered in this training course include:

- Overview
 - WOSS solution architecture and components
 - Security architecture
- Application Control for WOSS

- Application components and services
- Deploying and configuring communications adapters
- Administration tasks for WOSS
 - Start-up and shutdown
 - User management
 - System configuration
 - Granite Inventory WOSS-related tasks
 - Assign and Design WOSS-related tasks
 - Monitoring for WOSS
 - Logs and Tracing
 - User activity audit
 - Installation overview

Duration and class size

- The length of the course is 3 days.
- The maximum number of participants is 12.

Learning situation

This course is based on instructor led lessons, demonstrations and theoretical exercises.



Wireless OSS (WOSS) End User

OBES GI-01-03

The Wireless OSS (WOSS) Solution is a commercial off-the-shelf network management application that supports the hierarchical navigation, creation and ongoing management of wireless inventory across multiple vendors.

The WOSS Solution provides a use-case specific, faster method of implementing wireless technologies in Granite Inventory and allows for extensions and upgrade with growth in new technology, product and business needs.

The WOSS Solution End User training course is intended for subject matter experts, users, system administrators, system integrators, data engineers, wireless network managers and anyone who needs to understand the WOSS Solution and user experience.

Description

This instructor-led course will provide participants an overview of the WOSS Solution and its usage in the configuration and management of wireless networks.

Participants will learn about the functionality, operation, layout and usage of the WOSS Solution and how it fits into the wider process flows of the Granite Inventory Suite.

Learning objectives

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

- Understand the WOSS Solution and its position in the larger OSS context
- Understand the WOSS data model
- Navigate through the WOSS GUI
- Search, open and view common wireless network objects
- Use wizards to create new wireless objects

Target audience

The target audience for this course is:

Network Design Engineer, Network Deployment Engineer, Services Design Engineer, Services Deployment Engineer, and Application Developer

Prerequisites

Successful completion of the following courses:

- Granite Inventory End User

Knowledge of:

- Wireless telecom

Topics in the course

Estimated Time (minutes)

Topics covered in this training course include:

- WOSS Solution overview
 - Key features and benefits
 - Architecture
- WOSS Key components
 - Data model
 - GUI
 - Granite Inventory
 - Assign and Design
 - Communications Adapters
- GUI Access and Navigation

- Invocation, look and feel
- Search, open and view wireless objects
- Working with Wireless Networks
- Understanding and working with 2G and 3G networks
- Understanding 4G wireless objects
- Working with common wireless objects

Duration and class size

- The length of the course is 3 days.
- The maximum number of participants is 12.

Learning situation

This course is based on instructor led lessons, demonstrations and theoretical exercises.



Wireless OSS (WOSS) Implementer

OBES GI-01-07

The Wireless OSS (WOSS) Solution is a commercial off-the-shelf network management application that supports the hierarchical navigation, creation and ongoing management of wireless inventory across multiple vendors.

The WOSS Solution provides a use-case specific, faster method of implementing wireless technologies in Granite Inventory and allows for extensions and upgrade with growth in new technology, product and business needs.

The WOSS Solution Implementer training course is intended for system integrators, software architects, and others who need to understand the implementation of the WOSS Solution.

Description

Much of Wireless OSS Implementation is achieved through implementing Granite and Assign and Design. This instructor-led course covers those aspects of implementation which are specific to the solution itself, and combines implementation of Granite and Assign and Design into a solution-focused whole.

Participants will come to understand the overall architecture of the WOSS solution and become familiar with the activities required to implement WOSS

Learning objectives

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

- Understand overall WOSS architecture
- Describe the components of WOSS, how they work together, and how they can be configured and customized
- Use appropriate tools and techniques to undertake a selection of the possible implementation activities for WOSS

Target audience

The target audience for this course is Network Deployment Engineer, Service Deployment Engineer and Systems Integrators

Prerequisites

Successful completion of the following courses:

- Granite Inventory Core Implementer
- WOSS End User
- WOSS Administration
- Assign and Design Implementer

Topics in the course

Estimated Time (minutes)

Topics covered in this training course include:

- System architecture
- Architecture Review
- Configuration files
- Working with AMOs and UDAs
- Configuring the Granite Inventory Plug-in
- Path Configuration
- GUI Configuration
- The Communications Adapter
- Configuring Assign and Design for WOSS

Duration and class size

- The length of the course is 1 day.
- The maximum number of participants is 12.

Learning situation

This course is based on instructor led lessons, demonstrations and theoretical exercises.



Wireless OSS (WOSS) Installation

OBES GI-01-08

The Wireless OSS (WOSS) Solution is a commercial off-the-shelf network management application that supports the hierarchical navigation, creation and ongoing management of wireless inventory across multiple vendors.

The Wireless OSS Solution leverages the functionality of Assign and Design to provide automated creation of complex wireless network objects. This is achieved by a rich set of configurations and Plug-ins to support the management of Wireless inventory objects, including logical network nodes, physical equipment and network connectivity.

The WOSS Installation course is intended for Systems Administrators and Subject Matter Experts who will be responsible for the installation with the Wireless OSS Solution and will be providing system support including administration and maintenance of the WOSS application.

Description

Through instructor-led training with hands-on guidance and activities, participants will be taught how to install the Wireless OSS Solution components. Participants will gain an understanding of what prerequisites and processes are required to successfully deploy the Wireless OSS Solution.

Learning objectives

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

- Understand the process of installing WOSS
- Follow products/solution documentation to install the WOSS solution
- Troubleshoot installation problems

Target audience

The target audience for this course is:
System Administrator

Prerequisites

Successful completion of the following courses:

- Granite Inventory Installation
- Experience in the installation and deployment of J2EE applications in WebLogic

Topics in the course

Estimated Time (minutes)

Topics covered in this training course include:

- Installation prerequisites
- Installing the Assign and Design framework reference data
- Installing and deploying the WOSS solution
- Installing WOSS solution data model
- Installing and deploying wireless automation
- Overview of wireless GUI

Duration and class size

- The length of the course is 1 day.
- The maximum number of participants is 6.

Learning situation

This course is based on instructor led lessons, demonstrations and theoretical exercises.



Granite Inventory Advanced Modeling

OBES GI-00-31

Granite Inventory is a comprehensive Service Resource Management platform that stores and customizes all the physical and logical resources a Communications Service Provider (CSP) needs to manage its network and services.

The Granite Inventory Advanced Modeling course is intended for those Granite Inventory users needing a more in-depth knowledge of modeling network technologies within the Granite Inventory application.

Description

This instructor-led course will discuss the steps behind advanced modeling, making adjustments to the bandwidth table and hands-on modeling of technology in the User Client. Participants will be taught to model more advanced concepts of a network by understanding how to use more effectively the Granite Inventory User and Administration Client objects, features and tools.

Learning objectives

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

- Outline the procedures and concepts involved in the Advanced Modeling of a network
- Identify the different types of services, transports, protocols and technologies used in the network examples used in this training course
- Understand how to break down the network diagram used in this course into its individual Granite Inventory objects by identifying:
 - Sites
 - Equipment
 - Segments or cables
 - Circuit paths

- Set up the Granite Inventory Administration Client to enable the various objects to be built in the User Client
- Complete the building of these objects, taken from the network diagram into the Granite Inventory User Client

Target audience

The target audience for this course is:

Network Design Engineer, Network Deployment Engineer, Services Design Engineer, Services Deployment Engineer, and Application Developer

Prerequisites

Successful completion of the following courses:

- Granite Inventory End User
- Granite Inventory Administration Client

Topics in the course

Estimated Time (minutes)

Topics covered in this training course include:

- Overview of modeling
- Introduction to the steps behind advanced modeling
- Bandwidth table
- Tutorial on the bandwidth table and how to make adjustments to it
- Setting up the Administration Client
- Modifying the validation tables, etc.
- Setting up the backbone network
- Overview of the technologies used
- Hands-on exercise modeling of technologies in the End User Client
- Hands-on exercise building the network and service layers in the End User Client

Duration and class size

- The length of the course is 2 days.
- The maximum number of participants is 12.

Learning situation

This course is based on instructor led lessons, demonstrations and theoretical exercises.



Granite Inventory Assign and Design Module End User

OBES GI-01-02

Granite Inventory Assign and Design Module (Assign and Design) is a flow through assignment engine that implements various inventory and assignment solutions to model given technologies and their related services in Granite Inventory. The common technology agnostic framework and rule driven plug-ins can be configured “out of the box”, for specific technologies, by deploying COTS automation modules. Assign and Design system behavior can be customized and extended.

The Granite Inventory Assign and Design COTS automation modules provide solutions for given technologies and consist of FTTx xDSL, Passive Optical Network (PON), Ethernet LAN Service (ELS), IPVPN, Federated Data Management (FDM), and Synchronous Digital Hierarchy (SDH).

The Granite Inventory Assign and Design End User course is intended to provide the participant with knowledge of the fundamental capabilities of a given Assign and Design COTS automation module, show how it works in conjunction with Granite Inventory and supports flow through provisioning, and provide hands-on experience by using the User GUI to provide request inputs and resolve errors created during flow through processing.

Description

This instructor-led course with hands-on activities discusses Assign and Design fundamental capabilities and will provide an overview of the functionality and navigation of selected Assign and Design COTS automation modules that will enable participants to effectively understand and utilize Assign and Design . Using a selected automation module, participants will experience how request inputs to Assign and Design will create, modify, or delete objects in Granite Inventory.

Learning objectives

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

- Analyze a system to take advantage of Dynamic Pricing
- Calculate discount rates
- Administer discount rates

Target audience

The target audience for this course is:
Network Design Engineer,

Network Deployment Engineer, Services Design Engineer, Services Deployment Engineer, and Application Developer

Prerequisites

Successful completion of the following courses:

- Granite Inventory End User
- Assign and Design Overview
- Telecom Foundation or equivalent technology knowledge
- Knowledge of local assignment and provisioning processes

Topics in the course

Estimated Time (minutes)

Topics covered in this training course include:

- View pending/working primary object details
- Discuss conceptual inventory model and object life cycle management
- Process create, modify, and remove input

requests and show their interaction

- Submit input request to create new primary objects modify and remove existing primary objects
- Perform maintenance change and assignment change activities and show their interactions with pending objects and input request when applicable
- Create, modify and remove primary objects utilizing inventory (non-pending) requests
- Hands-on scenarios and reviewing results

Duration and class size

- The length of the course is 2 days.
- The maximum number of participants is 12.

Learning situation

This course is based on instructor led lessons, demonstrations and theoretical exercises.



Granite Inventory Assign and Design Installation

OBES GI-00-08

Granite Inventory Assign and Design Module is a flow through assignment engine that implements various inventory and assignment solutions to model given technologies and their related services in Granite Inventory. The common technology-agnostic framework and rule driven plug-ins can be configured “out of the box”, for specific technologies, by deploying COTS automation modules. The Assign and Design Module system behavior can be customized and extended.

The Granite Inventory Assign and Design COTS automation modules provide solutions for given technologies and consist of FTTx, xDSL, Passive Optical Network (PON), Ethernet LAN Service (ELS), IPVPN, Federated Data Management (FDM), and Synchronous Digital Hierarchy (SDH).

The Granite Inventory Assign and Design Module Installation course is intended for Systems Administrators and Subject Matter Experts who will be responsible for the installation of module and will be providing system support including administration and maintenance.

Description

This instructor-led course will teach participants how to install the Assign and Design module. Participants will gain an understanding of the prerequisites and processes required to successfully deploy Assign and Design.

Learning objectives

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

- Have an understanding of the Assign and Design architecture
- Understand the process of installing Assign and Design
- Follow products/solution documentation to install Assign and Design components
- Troubleshoot installation problems

Target audience

The target audience for this course is:
System Administrator

Prerequisites

Successful completion of the following courses:

- Granite Inventory Installation
- Experience in the installation and deployment of J2EE applications in WebLogic

Topics in the course

Estimated Time (minutes)

Topics covered in this training course include:

- Assign and Design architecture overview
- Installation prerequisites
- Installing Assign and Design framework reference data
- Installation and deployment of an automation module

Duration and class size

- The length of the course is 1 day.
- The maximum number of participants is 6.

Learning situation

This course is based on instructor led lessons, demonstrations and theoretical exercises.



Granite Inventory Assign and Design BPM Wireless Implementer

OBES GI-01-09

Granite Inventory Assign and Design is a configurable and extensible assignment engine that automates the management of key objects in the Granite Inventory database. Granite Inventory Assign and Design enables flow-through provisioning by automating key operations such as assignment, building inventory on-the-fly, assignment correction, completion and Business Process Manager (BPM).

System Integrators can utilize COTS and custom automation modules as the building blocks of Business Processes.

Description

This instructor-led course presents the core Inventory Granite Assign and Design BPM architecture.

Participants will acquire the knowledge to customize capabilities of the BPM components and enable the student to effectively design and automate business process flows, including monitoring the process.

Learning objectives

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

- Describe the purpose of the module
- Describe the architecture and components of the module
- Set up a complete business process to automatically create wireless notes utilizing the Wireless module
- Be familiar with basic BPMN2
- Be familiar with the jBPM5 eclipse designer

Target audience

The target audience for this course is Network Deployment Engineer, Service Deployment Engineer and Systems Integrators

Prerequisites

Successful completion of the following courses:

- Granite Inventory Assign and Design Wireless Implementer
- Knowledge of the following:
- Java programming experience
- JEE programming experience
- XML, JAXB2
- JBPM APIs for scripting
- High-level BPMN2 understanding

Topics in the course

Estimated Time (minutes)

Topics covered in this training course include:

- Brief introduction to jBPM5
- BPM automation architecture
- BPM automation components
 - Process Execution Manager
 - Process Status Monitor
 - Process Engine
 - Process Design GUI
- Drools Guvnor Repository
- BIRT (Business Intelligence Reporting Tool)

Duration and Class Size

- The length of the course is 3 days.
- The maximum number of participants is 12.

Learning Situation

- This course is based on instructor led lessons, demonstrations and theoretical exercises.



Granite Inventory ASI API Toolkit

** This content is covered in the 5-day Core Implementer course*

Granite Inventory is a comprehensive Service Resource Management platform that stores and customizes all the physical and logical resources a Communications Service Provider (CSP) needs to manage its network and services.

The Granite Inventory Advanced Services Interface (ASI) Application Programming Interface (API) Toolkit (ASI API Toolkit) allows developers to implement functionality that communicates with the Granite Inventory system. It provides a Java API that supports custom implementations that interact with Granite Inventory objects, user authentication, and targeted messaging. With object classes for all the major data types in the Granite Inventory database, ASI provides business rules and validation tables to ensure the integrity of the data being processed by the client program or application. The ASI API Toolkit also includes a set of Web Services that supports the creation of the key components to enable the transfer of application data and allow the Granite Inventory Objects to be used as the object types for Web Service input arguments.

The ASI API Toolkit training course is intended for those Administrators and System Integrators with experience writing code to Sun's Java API, who needs to integrate the Granite Inventory Core System with other OSS software applications.

Description

This instructor-led course will teach participants how to integrate other OSS software with the Granite Inventory application using ASI.

The course will provide a strong understanding of the overall capabilities and limitations of the ASI, which functions as the ASI API.

Learning objectives

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

- Understand the ASI API strengths and limitations
- Understand how the ASI API Toolkit allows access to the Granite Inventory Data Model
- Use the ASI to access and modify Granite Inventory Database Objects

Target audience

The target audience for this course is:

Network Design Engineer, Network Deployment Engineer, Services Design Engineer, Services Deployment Engineer, and Application Developer

Prerequisites

Successful completion of the following courses:

- Granite Inventory End User
- Granite Inventory Administration Client
- Strong understanding of Java programming
- Good understanding of relational database technology

Topics in the course

Estimated Time (minutes)

Topics covered in this training course include:

- Introduction and overview of the ASI API Toolkit
- ASI Lecture

- Overview of Granite Inventory Data Model
- ASI Installation/ Environmental Setup
- How the ASI allows access to the Granite Inventory Data Model
- Hands-on Exercises and Activities
- Participants will use the ASI to access, modify and/or create across all Granite Inventory Database Objects through sample exercises

Duration and class size *

- The length of the course is 1 day.
- The maximum number of participants is 12.

Learning situation

This course is based on instructor led lessons, demonstrations and theoretical exercises.



Granite Inventory AutoRouter

OBES GI-00-05

Granite Inventory is a comprehensive Service Resource Management platform that stores and customizes all the physical and logical resources a Communications Service Provider (CSP) needs to manage its network and services.

Auto routing within the Granite Inventory application is the process of identifying candidate routes between two locations (A-side site and Z-side site). Each candidate route is a series of links or “hops” from site to site, connecting the two end sites. During the auto routing process, Granite Inventory offers numerous criteria for determining the best route for a path which uses the Least Number of Hops, Least Cost or Shortest Distance criteria.

The Granite Inventory AutoRouter training course is intended for those individuals needing to streamline network design creation using the Granite End User Client.

Description

This instructor-led course will teach participants how AutoRouter works and the components that make up the module, including the setup necessary to initiate and complete AutoRouter functionality.

Learning objectives

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

- Understand the Granite object model with emphasis on the circuit path
- Identify the components that make up the AutoRouter module including features such as inter- and intra-site routing
- Set up routing criteria, weighting, and preferences
- Use AutoRouter template
- Develop and execute an AutoRouter example from the database

Target audience

The target audience for this course is:
Network Design Engineer, Network Deployment Engineer, Services Design Engineer, Services Deployment Engineer, , and Application Developer

Prerequisites

Successful completion of the following courses:

- Granite Inventory End User

Topics in the course

Estimated Time (minutes)

Topics covered in this training course include:

- Overview of Granite Client and Granite object model with emphasis on the circuit path
- Overview of the components that make up AutoRouter including the setup and review of user interface
- AutoRouter application example
- Hands on exercises: participants will set up routing criteria, weighting and preferences as well as templates

Duration and class size

- The length of the course is 1 day.
- The maximum number of participants is 12.

Learning situation

This course is based on instructor led lessons, demonstrations and theoretical exercises.



Granite Inventory Data Structure

This content is covered in the 5-day Core Implementer Course

Granite Inventory is a comprehensive Service Resource Management platform that stores and customizes all the physical and logical resources a Communications Service Provider (CSP) needs to manage its network and services.

The Granite Inventory Client lets you enter and view information through a series of panes and panels. Within each pane or panel, a group of fields, lists, or tables will be used to submit and review data. In addition, there are certain programmatic functions that can be performed upon Granite Inventory data (such as customized validation checking) by manipulating the data as it is stored in the Oracle database.

The Granite Inventory Data Structure training course is intended for Granite Inventory users or database administrators needing to understand the architecture for data loading, data manipulation or data development/integrations.

Description

This instructor-led course will discuss the Granite Inventory database structure and hierarchy. In addition, the Core System schemas and their respective table and field names will be shown. Navigation through the User Client application screens and how to create modify, and delete database objects is also covered.

Learning objectives

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

- Understand the Granite Inventory objects and hierarchy and the core system database tables and field names
- Create sites, customers, equipment, segments, cables and paths objects in the Granite Inventory User Client
- Use simple SQL statements to retrieve the information from the User Client

Target audience

The target audience for this course is:

Network Design Engineer, Network Deployment Engineer, Services Design Engineer, Services Deployment Engineer, and Application Developer

Prerequisites

Successful knowledge of:

- Basic SQL
- Database design
- Database administration

Topics in the course

Estimated Time (minutes)

Topics covered in this training course include:

- Introduction to the Granite Inventory Core System
- Overview of the User Client
- Description of Granite Inventory objects
- Description of Granite Inventory hierarchy
- Overview of Core System tables and fields
 - Core System Tables and Fields
 - Walk through all database tables, showing

the different types of tables and table relationships

- Hands-on Exercises and Activities:
 - Database table and field name exercises
 - Creation of sites, customers, equipment, segments, cables and paths to build objects in the Granite Inventory User Client
 - Use of simple SQL statements to retrieve the above information

Duration and class size *

- The length of the course is 1 day.
- The maximum number of participants is 12.

Learning situation

This course is based on instructor led lessons, demonstrations and theoretical exercises.



Granite Inventory Illuminator Core Administration

OBES GI-00-32

The Granite Inventory Illuminator (Illuminator) module enables the building and deployment of reporting templates that retrieve Granite Inventory data.

Illuminator allows you to query, visualize, aggregate, filter, and drill into the data retrieved. Snapshots of the data can be configured for trend analysis.

The rapid retrieval of Granite Inventory data allows project stakeholders to react quickly to changes in the system and to plan and implement modifications efficiently and effectively.

The Illuminator Core Administration Training course is intended for Illuminator System Administrators and System Integrators that need to learn how to perform Illuminator system administration activities.

Description

This instructor-led course will enable participants to plan and implement Illuminator system administration duties.

Learning objectives

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

- Understand Illuminator installation and initial system set-up
- Manage users, groups and privileges
- Work with data sources and information links
- Configure Illuminator for multiple Granite Inventory regional databases
- Start and stop the different servers

Target audience

The target audience for this course is:
System Administrators

Prerequisites

Successful completion of the following courses:

- Granite Inventory Illuminator Create Reports
- Understanding of Oracle databases and SQL

Topics in the course

Estimated Time (minutes)

Topics covered in this training course include:

- Installation overview
- Managing users, groups and privileges
- Working with data sources
- Working with information links
- Working with multiple regional databases
- Server management
- ETL management
- Logging

Duration and class size

- The length of the course is 1 day.
- The maximum number of participants is 12.

Learning situation

This course is based on instructor led lessons, demonstrations and theoretical exercises.



Granite Inventory Illuminator Creating Reports

OBES GI-00-33

The Granite Inventory Illuminator (Illuminator) module enables the building and deployment of reporting templates that retrieve Granite Inventory data.

Illuminator allows you to query, visualize, aggregate, filter, and drill into the data retrieved. Snapshots of the data can be configured for trend analysis.

The rapid retrieval of Granite Inventory data allows project stakeholders to react quickly to changes in the system and to plan and implement modifications efficiently and effectively.

The Illuminator Create Mode Training course is intended for Granite Business Authors that need to learn how to modify existing, and create new Illuminator report definitions.

Description

This instructor-led course will enable participants to create Illuminator report definitions.

Learning objectives

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

- Understand the Information Designer
- Create a multi-page report containing joins and filters
- Add different visualizations to the report
- Enhance the report by adding calculated columns, binned data and text
- Work with aggregation, bookmarks, tags and lists
- Create new Snapshot and Summary reports

Target audience

The target audience for this course is:

Business Authors

Prerequisites

Successful completion of the following course:

- Granite Inventory Illuminator Analyzing and Reviewing Reports

Topics in the course

Estimated Time (minutes)

Topics covered in this training course include:

- Using the Information Designer to create a new report
- Data sources, columns, joins and information links
- Working with visualizations
- Adding pages, text, calculated columns and binned data
- Bookmarks, tags and lists
- Snapshot and Summary reports

Duration and class size

- The length of the course is 2 days.
- The maximum number of participants is 12.

Learning situation

This course is based on instructor led lessons, demonstrations and theoretical exercises.



Granite Inventory Illuminator Fundamentals

OBES GI-00-34

The Granite Inventory Illuminator (Illuminator) module enables the building and deployment of reporting templates that retrieve Granite Inventory data.

Illuminator allows you to query, visualize, aggregate, filter, and drill into the data retrieved. Snapshots of the data can be configured for trend analysis.

The rapid retrieval of Granite Inventory data allows project stakeholders to react quickly to changes in the system and to plan and implement modifications efficiently and effectively.

The Illuminator Fundamentals Training course is intended for Granite Inventory Business Analysts and Business Authors that need an overview of Illuminator capabilities and operations.

Description

This instructor-led course will provide participants an overview of the general functions, key features and use of Illuminator.

Learning objectives

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

- Understand the value of business analytics
- Understand the Illuminator architecture
- Overview of the different user types and appropriate GUIs
- Understand how retrieved data can be viewed, manipulated, enhanced and distributed

Prerequisites

Successful completion of the following course:

- Granite Inventory Fundamentals

Topics in the course

Estimated Time (minutes)

Topics covered in this training course include:

- Product overview
- Architecture and components
- Users and GUIs
- Retrieving, viewing, modifying and distributing reports

Duration and class size

- The length of the course is 1 day.
- The maximum number of participants is 12.

Learning situation

This course is based on instructor led lessons, demonstrations and theoretical exercises.

Target audience

The target audience for this course is:

Business Authors



Granite Inventory Illuminator Viewing and Analyzing Reports

OBES GI-00-35

The Granite Inventory Illuminator (Illuminator) module enables the building and deployment of reporting templates that retrieve Granite Inventory data.

Illuminator allows you to query, visualize, aggregate, filter, and drill into the data retrieved. Snapshots of the data can be configured for trend analysis.

The rapid retrieval of Granite Inventory data allows project stakeholders to react quickly to changes in the system and to plan and implement modifications efficiently and effectively.

The Illuminator Analysis Mode Training course is intended for Granite Business Analysts and Business Authors that need to learn how manage Illuminator reports.

Description

This instructor-led course will provide participants an understanding of how to work with Illuminator reports including how to retrieve, modify, enhance and distribute.

Learning objectives

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

- Retrieve and manage reports in the Web Player and Professional Clients
- Learn about Snapshot and Summary reports
- Modify, save, export and distribute reports

Target audience

The target audience for this course is:

Business Analysts and Business Authors

Prerequisites

Successful completion of the following course:

- Granite Inventory Illuminator Fundamentals

Topics in the course

Estimated Time (minutes)

Topics covered in this training course include:

- Performing common operations
- Accessing and navigating the Web Player and Professional (Thick) Clients
- Working with the visualization panel
- Working with filters
- Working with details-on-demand
- Saving modified reports

Duration and class size

- The length of the course is 1 day.
- The maximum number of participants is 12.

Learning situation

This course is based on instructor led lessons, demonstrations and theoretical exercises.



Granite Inventory IP Address Manager

OBES GI-00-10

Granite Inventory is a comprehensive Service Resource Management platform that stores and customizes all the physical and logical resources a Communications Service Provider (CSP) needs to manage its network and services.

The Granite Inventory IP Address Manager Module is an Internet Protocol (IP) address management module, fully integrated with the Granite Inventory Core System that enables users to allocate, assign, and manage IP addresses over a distributed IP network infrastructure.

The Granite Inventory IP Address Manager Module training course is intended for Users needing to manage their IP address allocation to objects within the Granite Inventory application.

Description

This instructor-led course will provide participants a description of the IP Address Manager module hierarchy, overviews of the administrator and user functions, and discuss the module tutorial.

Learning objectives

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

- Allocate, assign and manage IP address across multiple networks
- Create and assign a network IP range to a Granite Inventory region/database
- Create sub-ranges and assign them to Granite Inventory User Client's sites and equipment

Target audience

The target audience for this course is:

Network Design Engineer, Network Deployment Engineer, Services Design Engineer, Services Deployment Engineer, , and Application Developer

Prerequisites

Successful completion of the following courses:

- Granite Inventory Fundamentals
- Granite Inventory End User
- Granite Inventory Administration Client

- Hard assign IP addresses to Granite Inventory objects
- Release IP addresses

Duration and class size

- The length of the course is 1 day.
- The maximum number of participants is 12.

Topics in the course

Estimated Time (minutes)

Topics covered in this training course include:

- Introduction to IP Address Manager
 - Description of hierarchy
 - Overview of administrator functions
 - Review menus, managers, and wizards
- IP Address Manager Screen Elements
 - Overview of user functions
 - Review of existing network
- IP Address manager Tutorial and Hands-on Exercises
 - Create networks, both internal and external
 - Create network IP range
 - Assign network IP range to Granite Inventory region/database

Learning situation

This course is based on instructor led lessons, demonstrations and theoretical exercises.



Granite Inventory Java Plug-ins

** This content is covered in the 5-day Core Implementer course*

Granite Inventory is a comprehensive Service Resource Management platform that stores and customizes all the physical and logical resources a Communications Service Provider (CSP) needs to manage its network and services.

The Granite Inventory Plug-in Toolkit allows developers or knowledgeable Java programmers to make use of these plug-in modules and develop using either SQL procedures (in the database) or Enterprise Java Beans (EJBs) (deployed on the same or another application server) that extend the power of the Granite Inventory application to provide custom business logic, authentication, and validations specific to your deployment. The Granite Inventory System comes with several pre-installed Java-based plug-ins. These plug-ins are deployed in the middle tier and appear in the Granite Inventory Administration Client plug-in registry as default plug-ins.

The Granite Inventory Java Plug-ins training course provides a Java API that allows developers and programmers to develop custom plug-ins that implement customized rules for validating objects, user authentication, and targeted messaging.

Description

This instructor-led course will provide participants a strong understanding of the overall capabilities of Granite Inventory applications Java plug-ins, how to build them and how to implement them. Participants should be able to develop plug-ins based on their network needs.

Learning objectives

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

- Understand the various types of plug-ins available to the application
- Understand to create/program Java plug-ins
- Understand how to deploy Java plug-ins
- Understand how to test Java plug-ins to ensure they are working to the standards needed

Target audience

The target audience for this course is:

Network Design Engineer, Network Deployment Engineer, Services Design Engineer, Services Deployment Engineer, and Application Developer

Prerequisites

- Using and creating EJBs, especially stateless Java Session Beans
- Creating and deploying Enterprise Application Archive (EAR) and Web archive (WAR) files
- Using the Granite Inventory End User and Administration Client

Topics in the course

Estimated Time (minutes)

Topics covered in this training course include:

- Introduction and Overview of the Java plug-ins

- Overview of different types of plug-ins
- Reviewing examples of plug-ins
- Reviewing deployment and testing of plug-ins
- Hands-on exercises and activities
- Participants will use create the programming necessary to build different types of plug-ins, deploy the plug-ins and test them to ensure they work to standards

Duration and class size *

- The length of the course is 1 day.
- The maximum number of participants is 12.

Learning situation

This course is based on instructor led lessons, demonstrations and theoretical exercises.



Granite Inventory JMS Events

** This content is covered in the 5-day Core Implementer course*

Granite Inventory is a comprehensive Service Resource Management platform that stores and customizes all the physical and logical resources a Communications Service Provider (CSP) needs to manage its network and services.

The Granite Inventory Java Message System (JMS) Events Module (JMS Events) is a component of the Granite Inventory system that generates, or publishes, events when transactions with the database occur. For example, these transactions might include the update of a site, the insertion of a container, or the status change of customer. All transactions generating events are committed through the Granite Inventory Middle Tier.

The JMS Events training course is intended for users or system integrators who need to understand internal processes to receive notification of Granite Inventory database changes.

Description

This instructor-led course will discuss how to configure and test JMS Events. Examples are used to show how JMS Events works using the application to poll the audit trail at pre-defined intervals and publish the results.

Learning objectives

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

- Set up Factory Class, Classpath, and Event Topic JNDI Name
- Configure JMS Topics and understand Java Message System (JMS) header fields and JMS XML payload

Target audience

The target audience for this course is:

Network Design Engineer, Network Deployment Engineer, Services Design Engineer, Services

Deployment Engineer, and Application Developer

Prerequisites

Successful completion of the following course:

- Granite Inventory End User Client
- Granite Inventory Administration Client
- Knowledge of XML

Topics in the course

Estimated Time (minutes)

Topics covered in this training course include:

- Configuring JMS Events
 - Creating the configuration file
 - Deploying to the application server
 - Configuring JMS Topics
 - Creating a JMS Events User
- Testing JMS Events
 - Configuring GUI for testing

- Setting up Factory Class, Classpath, and Event Topic JNDI Name

- JMS Message Contents
 - Understanding JMS header fields
 - Understanding JMS XML payload
- JMS Events examples
- Hands-on exercises and activities
 - Participants will prepare an example that displays on the JMS Events bus

Duration and class size *

- The length of the course is 1 day.
- The maximum number of participants is 12.

Learning situation

This course is based on instructor led lessons, demonstrations and theoretical exercises.



Granite Inventory Name Generator/Object Wizard

OBES GI-00-14

Granite Inventory is a comprehensive Service Resource Management platform that stores and customizes all the physical and logical resources a Communications Service Provider (CSP) needs to manage its network and services.

The Granite Inventory Name Generator Module allows the Granite Inventory Client to be configured to automatically generate a name for objects based upon entries into an administratively defined "form" window. After the configuration of the Name Generator, an end user can use it to automatically populate name fields in any of the object creation panels: site, equipment, path, network, cable, segment, customer, and UDCs.

The Granite Inventory Name Generator Module training course is intended for users building objects within the Granite Inventory application.

Description

This instructor-led course will teach participants to design, test, and implement Name Generators and Object Creation wizards for the User Client.

Learning objectives

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

- Build Name and Wizard Generation forms and any necessary external reference files for lists or sequences
- Design, test, and implement Name Generators and Object Creation wizards
- Complete testing of a new Name Generator form

Target audience

The target audience for this course is:
Network Design Engineer, Network Deployment Engineer, Services Design Engineer, Services

Deployment Engineer, System Administrator, and Application Developer

Prerequisites

Successful completion of the following course:

- Granite Inventory End User Client
- Knowledge of customer database naming conventions

Topics in the course

Estimated Time (minutes)

Topics covered in this training course include:

- Introduction to Name Generator and Wizard Creation
- Overview of Name Generator functionality
- Overview of Object Creation Wizard and functionality
- Description of some external files to be imported
- Examples of an existing Name Generator and Object Creation Wizard

- Hands-on exercise
- Build an example of the Name Generator form
- Build an example of an external reference list
- Build an example of an external sequence
- Show processes for importing this information in the Admin Client
- Test Name Generators and Object Creation Wizards

Duration and class size

- The length of the course is 1 day.
- The maximum number of participants is 12.

Learning situation

This course is based on instructor led lessons, demonstrations and theoretical exercises.



Granite Inventory Range Manager

OBES GI-00-18

Granite Inventory is a comprehensive Service Resource Management platform that stores and customizes all the physical and logical resources a Communications Service Provider (CSP) needs to manage its network and services.

Granite Range Manager is a number management module, fully integrated with the Granite Inventory System application that enables users to create, allocate, assign, and manage Numbers over their network infrastructure. Using the Granite Inventory core functionality, Range Manager numbering systems can then be linked to all other Granite Inventory object records, as needed.

The Granite Inventory Range Manager Module training course is intended for those individuals responsible for using the Granite Inventory Administration client to set up the Granite Inventory database Range Manager systems and for those individuals responsible to create and manage Range Manager numbering systems in the End User client.

Description

This instructor-led course will provide participants guidance on the Administration and End User client operations including administrative setup of the Range Manager object and the End User creation of numbering ranges that reflect the needs within their telecom network.

Learning objectives

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

- Configure the appropriate Granite Inventory Administration client set-up necessary for the effective use of Range Manager
- Create Range Manager numbering systems in the Granite Inventory End User client and generate data within those number systems
- Understand the relationships between the Range Manager Administration client set-up and the effect on the

Range Manager records in the User client

Target audience

The target audience for this course is:

Network Design Engineer, Network Deployment Engineer, Services Design Engineer, Services Deployment Engineer, and Application Developer

Prerequisites

Successful completion of the following courses:

- Granite Inventory End User
- Granite Inventory Administration Client

Topics in the course

Estimated Time (minutes)

Topics covered in this training course include:

- Administration Operations
 - Configuring privilege profiles
 - Assigning domains

- Configuring form configuration
- Setting up validation tables
- Configuring associations
- User Client Operations
 - Setting up number ranges
 - Setting up number sub-ranges
 - Splitting number ranges
 - Allocating and un-allocating numbers
 - Assigning dates, associations and attachments to number allocations

Duration and class size

- The length of the course is 1 day.
- The maximum number of participants is 12.

Learning situation

This course is based on instructor led lessons, demonstrations and theoretical exercises.



Granite Inventory Rearrangement Manager Administration

OBES GI-00-37

Granite Inventory Rearrangement Manager is a separate module, fully integrated with the Granite Inventory Granite Inventory system. It enables users to rearrange (modify) a group of primary data objects (e.g., paths/networks) to make use of different underlying facilities. The Rearrangement Manager Module framework provides the base functionality, including projects and project workflow, process execution for concurrent execution of rearrangement tasks (design scenarios), a plug-in for modules and low-level business logic, and a set of library modules that provide processing logic for use with multiple modules.

The current release of Rearrangement Manager includes the following process modules that define the type of tasks (Design Scenarios) that can be created in a project: 'Regroom' and 'Payload'.

The Granite Inventory Rearrangement Manager Administration training course is intended for those users who have an administrative role in the network, who require the understanding needed to install the Rearrangement Manager Module and manage various configurations.

Description

This instructor-led course will provide participants guidance on the installation of the Rearrangement Manager module, work with configuration features and learn about the "Platform" database.

Learning objectives

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

- Be familiar with Rearrangement Manager installation
- Understand essential configuration features
- Know about Rearrangement Manager tables residing in the "Platform" database

Target audience

The target audience for this course is:

Network Design Engineer, Network Deployment Engineer, Services Design Engineer, Services Deployment Engineer, and Application Developer

Prerequisites

Successful completion of the following courses:

- Granite Inventory End User
- Granite Inventory Administration Client
- Rearrangement Manager End User

Topics in the course

Estimated Time (minutes)

Topics covered in this training course include:

- Summary of installation procedures
- Review of configuration topics
- Discussion of the "Platform" database

Duration and class size

- The length of the course is 1 day.
- The maximum number of participants is 12.

Learning situation

This course is based on instructor led lessons, demonstrations and theoretical exercises.



Granite Inventory Rearrangement Manager End User

OBES GI-00-36

Granite Inventory Rearrangement Manager is a separate module, fully integrated with the Granite Inventory Granite Inventory system. It enables users to rearrange (modify) a group of primary data objects (e.g., paths/networks) to make use of different underlying facilities. The Rearrangement Manager Module framework provides the base functionality, including projects and project workflow, process execution for concurrent execution of rearrangement tasks (design scenarios), a plug-in for modules and low-level business logic, and a set of library modules that provide processing logic for use with multiple modules.

The current release of Rearrangement Manager includes the following process modules that define the type of tasks (Design Scenarios) that can be created in a project: 'Regroom' and 'Payload'.

The Granite Inventory Rearrangement Manager End User training course is intended for End Users, and for anyone else who requires an overview of Rearrangement Manager functions, GUI layout/navigation, and a quick review of the associated process modules.

Description

This instructor-led course will discuss the basic functions of Rearrangement Manager, provide GUI familiarity, work with projects and rearrangement task management, and review various commercial off-the-shelf (COTS) Design Scenarios.

Learning objectives

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

- Understand Rearrangement Manager and its associated process modules
- Understand the main functions of the product and its integration with Granite Inventory database
- Navigate through the product's GUI
- Work with projects and the project/task life cycle
- Use COTS Design Scenarios

Target audience

The target audience for this course is:

Network Design Engineer, Network Deployment Engineer, Services Design Engineer, Services Deployment Engineer, and Application Developer

Prerequisites

Successful completion of the following courses:

- Granite Inventory End User
- Granite Inventory Administration Client

Topics in the course

Estimated Time (minutes)

Topics covered in this training course include:

- Introduction to Rearrangement Manager
- Relationship with Granite Inventory
- Associated Design Scenarios
- Layout and navigation of the GUI
- Projects, tasks and project workflow

Duration and class size

- The length of the course is 1 day.
- The maximum number of participants is 12.

Learning situation

This course is based on instructor led lessons, demonstrations and theoretical exercises.



Granite Inventory Rearrangement Manager Integration

OBES GI-00-38

Granite Inventory Rearrangement Manager is a separate module, fully integrated with the Granite Inventory Granite Inventory system. It enables users to rearrange (modify) a group of primary data objects (e.g., paths/networks) to make use of different underlying facilities. The Rearrangement Manager Module framework provides the base functionality, including projects and project workflow, process execution for concurrent execution of rearrangement tasks (design scenarios), a plug-in for modules and low-level business logic, and a set of library modules that provide processing logic for use with multiple modules.

The current release of Rearrangement Manager includes the following process modules that define the type of tasks (Design Scenarios) that can be created in a project: 'Regroom' and 'Payload'.

The Rearrangement Manager Integration training course is intended for those people who need to understand, analyze and execute Rearrangement Web Services, customize the Rearrangement Manager by extending and creating Design Scenarios, and understand other related integration activity.

Description

This instructor-led course will provide experience in the execution of Rearrangement Manager Web Service clients, opportunities to develop the module by customizing and creating Design Scenarios, and a review of other related integration topics

- Work with projects and the project/task life cycle
- Use COTS Design Scenarios

Target audience

The target audience for this course is:
Network Deployment Engineer, Service Deployment Engineer and Systems Integrators

- Introduction and basic functionality of Rearrangement Manager
- Relationship with Granite Inventory
- Associated Design Scenarios
- Layout and navigation of the GUI
- Projects, tasks and project workflow

Learning objectives

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

- Understand Rearrangement Manager and its associated process modules
- Understand the main functions of the product and its integration with Granite Inventory database
- Navigate through the product's GUI

Prerequisites

Successful completion of the following courses:

- Granite Inventory End User
- Granite Inventory Administration Client

Topics in the course

Estimated Time (minutes)

Topics covered in this training course include:

Duration and class size

- The length of the course is 1 day.
- The maximum number of participants is 12.

Learning situation

This course is based on instructor led lessons, demonstrations and theoretical exercises.



Granite Inventory Upgrade Training - Detailed

OBES GI-00-21

Granite Inventory is a comprehensive Service Resource Management platform that stores and customizes all the physical and logical resources a Communications Service Provider (CSP) needs to manage its network and services.

Over a period of time, Granite Inventory has gone through a number of functional enhancements and point release upgrade to improve the performance and functionality of the Application

The Granite Inventory Detailed Upgrade training course is intended for current Granite Inventory end users, administrators or system integrators who are responsible for upgrading their current version of the Granite Inventory application to the newly released Granite Inventory “point” release.

Description

This instructor-led course will take current Granite Inventory users through the new IT and third-party application requirements for upgrading to the latest Granite Inventory version. This course will also show participants the new functionality of the latest release in both the Granite Inventory End User Client and the Granite Inventory Administration Client.

Learning objectives

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

- Understand the major IT impacts and hardware and software prerequisite requirements for upgrading the Granite Inventory application to the latest release
- Work with the new functional and interface changes that have occurred during the upgrade release of the Granite Inventory application
- Understand the Granite Inventory release documentation as an initial follow-up reference source

Target audience

The target audience for this course is:

Network Design Engineer, Network Deployment Engineer, Services Design Engineer, Services Deployment Engineer, and Application Developer

Prerequisites

- Very proficient in working with your current Granite Inventory release from either an administrative or end user perspective
- Working knowledge of your current Granite Inventory architecture and knowledge of your telecom network

Topics in the course

Estimated Time (minutes)

Topics covered in this training course include:

- An in-depth overview, with practical demonstrations, of the new IT and third-party software and hardware requirements to successfully implement the Granite Inventory upgrade
- A detailed overview of End User Client functionality

enhancements in the new release

- Practical hands-on exercises exploring the new functionality within the End User Client
- A detailed overview of the Administration Client functionality enhancements in the new release
- Practical hands-on exercises exploring the new functionality with the Administration Client

Duration and class size

- The length of the course is 2-3 days (depending on upgrade deltas).
- The maximum number of participants is 12.

Learning situation

This course is based on instructor led lessons, demonstrations and theoretical exercises.



Granite Inventory Upgrade Training – New Features

OBES GI-00-39

Granite Inventory is a comprehensive Service Resource Management platform that stores and customizes all the physical and logical resources a Communications Service Provider (CSP) needs to manage its network and services.

Over a period of time, Granite Inventory has gone through a number of functional enhancements and point release upgrade to improve the performance and functionality of the Application

The Granite Inventory Upgrade Training – New Features, is intended for Granite Inventory end users and administrators who need to understand what is new in the latest major release of Granite Inventory.

Description

This instructor-led course will take current Granite Inventory end users and administrators through the new features and functionality of the latest major release in both the Granite Inventory End User and Administration Clients.

Target audience

The target audience for this course is:

Network Design Engineer, Network Deployment Engineer, Services Design Engineer, Services Deployment Engineer, and Application Developer

Client functionality enhancements in the new major release

- Walk-through of Granite Inventory Administration Client; participants will be guided through each area of new functionality within the Granite Inventory Administration Client GUI

Learning objectives

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

- Understand the major IT impacts and hardware and software prerequisite requirements for upgrading the Granite Inventory application to the latest release
- Work with the new functional and interface changes that have been introduced in the latest major release of Granite Inventory
- Understand the Granite Inventory release documentation as an initial follow-up reference source

Prerequisites

Very proficient in working with your current Granite Inventory release from either an administrative or end user perspective

Working knowledge of your current Granite Inventory architecture and knowledge of your telecom network

Duration and class size

- The length of the course is 1 day
- The maximum number of participants is 12.

Topics in the course

Estimated Time (minutes)

Topics covered in this training course include:

- Overview of Granite Inventory End User Client functionality enhancements in the new major release
- Walk-through of Granite Inventory End User Client; participants will be guided through each area of new functionality within Granite Inventory End User GUI
- Overview of Granite Inventory Administration

Learning situation

This course is based on instructor led lessons, demonstrations and theoretical exercises.



Granite Inventory View

OBES GI-00-22

Granite Inventory is a comprehensive Service Resource Management platform that stores and customizes all the physical and logical resources a Communications Service Provider (CSP) needs to manage its network and services.

The Granite View Module provides a range of spatial and schematic representations of your Core System network configuration. Its features make it a tremendous time-saver for both operations and engineering users who deal with network deployments and configurations.

The View training course is intended for those individuals responsible for performing both the administrative set up for the View client as well as the End-User functionality for all four components of the View module; those being, GeoMapping, Equipment Rackdraw, Circuit Layout Records, and Site Floor Plans.

Description

This instructor-led course will provide participants an understanding of the Administration set-up necessary for the View module to be fully functional in the End User Client as well as End User functionality for all components of the View module.

Learning objectives

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

- Access the View Administration menu to
 - Add/modify tooltips, labels, and popup menus
 - Add/modify image files and coordinate data for map overlays
 - Load updated View Administration jar files.
- Navigate the End-User client to
 - Display map overlays of sites, segments, cables and path data
 - Visualize Rackdraw relationships between containers, shelves, slots, cards and ports

- Display any path or network showing specific elements and relationships
- Develop and display a top-down site floor plan

- Modifying files in the View Administration menus to set up new maps, tooltips, labels, popups, hint rendering and floor plans and loading these into an updated jar file
- Building and visualizing new sites, segments, cables, paths, networks and AMO records and displaying them against the geo-mapping feature
- Building out new site floor plans based on Administration set-up
- Building out new equipment rack draw records and orienting them within a site floor plan
- Showing the circuit layout record functionality

Target audience

The target audience for this course is:

Network Design Engineer, Network Deployment Engineer, Services Design Engineer, Services Deployment Engineer, System Administrator, and Application Developer

Prerequisites

Successful completion of the following courses:

- Granite Inventory End User
- Granite Inventory Administration Client

Topics in the course

Estimated Time (minutes)

Topics covered in this training course include:

- Introduction and demo of the View module functionality in the Granite Inventory End User Client

Duration and class size

- The length of the course is 1 day
- The maximum number of participants is 12.

Learning situation

This course is based on instructor led lessons, demonstrations and theoretical exercises.



Granite Inventory Web Access

** This content is covered in the 5-day Foundation for Wireline course*

Granite Inventory is a comprehensive Service Resource Management platform that stores and customizes all the physical and logical resources a Communications Service Provider (CSP) needs to manage its network and services.

The Granite Inventory Web Access Client (Web Access) is a browser-based application that enables users to view information about network configuration quickly and easily. The Web Access Client offers several ways to search for information and provides functionality similar to that experienced in the Granite Inventory Java-based End User GUI. The Web Access Client also enables users to submit change requests for elements on the network.

The Web Access training course is intended for those users such as network operations center personnel or field technicians or anyone else who only needs to view their network information in the Granite Inventory database.

Description

This instructor-led course will provide participants a comfort level in using the Web Access Client to access network information stored within the Granite Inventory database.

Participants will learn how to navigate using the Web Access Client to search for database information, and to submit and check on change requests.

Learning objectives

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

- Search for database information using the Web Access client
- Use the Web Access client main screens to access information on database objects: sites, customers, equipment, cables, segments, paths and UDCs
- Use the Web Access client to submit and check on change requests

Target audience

The target audience for this course is:

Network Design Engineer, Network Deployment Engineer, Services Design Engineer, Services Deployment Engineer, and Application Developer

Prerequisites

Successful completion of the following courses:

- Granite Inventory End User

Topics in the course

Estimated Time (minutes)

Topics covered in this training course include:

- Web Access User Basics
 - The Web Access user main screen
 - Databases in the Web Access client
 - The main screens for database objects: sites, customers, equipment, cables, circuit segments, circuit paths
- Finding what you need
 - Filtering for database information
- Change Requests

- Submitting change requests
- Checking on the status of a change request
- Hands-on exercises and activities:
- Navigation through the web client accessing information from objects

Duration and class size *

- The length of the course is 1 day
- The maximum number of participants is 12.

Learning situation

This course is based on instructor led lessons, demonstrations and theoretical exercises.



Granite Inventory Works

OBES GI-00-25

Granite Inventory is a comprehensive Service Resource Management platform that stores and customizes all the physical and logical resources a Communications Service Provider (CSP) needs to manage its network and services.

The Granite Inventory Works Module is an end-to-end process management module that works in conjunction with the Granite Application. It transforms pending network configuration changes into detailed work orders, enabling network administrators to control and track workflow processes.

The Granite Inventory Works training course is intended for Administrators needing to create and follow up on work orders within their network.

Description

This instructor-led course will provide participants a comfort level in the generation of work processes including provisioning, network engineering and ongoing maintenance and operations procedures within Granite Inventory.

Target audience

The target audience for this course is:
Network Design Engineer, Network Deployment Engineer, Services Design Engineer, Services Deployment Engineer, System Administrator, and Application Developer

- Email notification
- Hands on exercises and activities

Duration and class size

- The length of the course is 1 day
- The maximum number of participants is 12.

Learning objectives

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

- Set-up the administration side of Works to generate task templates and set-up queues, establish keyword substitutions, and set-up user queue privileges
- Create an actual work order using Works both manually and with a work order template
- Check tasks out of and back into the queues
- Set up email notification of Works events

Prerequisites

Successful completion of the following courses:

- Granite Inventory End User

Learning situation

This course is based on instructor led lessons, demonstrations and theoretical exercises.

Topics in the course

Estimated Time (minutes)

Topics covered in this training course include:

- Introduction and overview of Works module
- Administration menu
 - Validation tables
 - Task templates
 - Queue Administration and Privileges
- Developing a Works work order from path object
 - Setting up task templates
 - Setting up queues
 - Setting up a work order template
- Overview of Works from the Web Access client



Wireless OSS (WOSS) 2.2.1 Update

OBES GI-01-10

The Wireless OSS (WOSS) Solution is a commercial off-the-shelf network management application that supports the hierarchical navigation, creation and ongoing management of wireless inventory across multiple vendors.

The Wireless OSS Solution provides a use-case specific, faster method of implementing wireless technologies in Granite Inventory and allows for extensions and upgrade with growth in new technology, product and business needs.

The WOSS Solution Update training course is intended for subject matter experts, users, system administrators, system integrators, data engineers, wireless network managers and anyone who needs to understand the differences between earlier and the current version (2.2.1) of the WOSS Solution and user experience.

Description

This instructor-led course will provide participants with an overview of the functionality, operation, layout and usage between earlier versions of the WOSS solution and version 2.2.1.

Learning objectives

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

- Understand the differences between the pre-version 2.2.1 WOSS solution and version 2.2.1

Target audience

The target audience for this course is:

Network Design Engineer,
Network Deployment
Engineer, Services Design
Engineer, Services
Deployment Engineer, and
Application Developer

Prerequisites

Successful completion of the following courses:

- pre-2.2.1 WOSS training

Topics in the course

Estimated Time (minutes)

Topics covered in this training course include:

- WOSS key component updates
 - Data model
 - GUI
 - Granite Inventory
 - Assign and Design
 - Communications adapters
- GUI access and navigation updates
 - Invocation, look and feel
 - Search, open and view wireless objects
- Wizard updates
 - Creating new wireless objects

Duration and class size

- The length of the course is 1 day.
- The maximum number of participants is 12.

Learning situation

This course is based on instructor led lessons, demonstrations and theoretical exercises.



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