

CLARITY TRAINING

Clarity Implementation Training for Systems Integration Partners



Document Version: 1.0

Date: 01 April 2007


Next Generation OSS



Copyright Information

Copyright © 2007. Clarity International Limited. All rights reserved. Clarity International and the Clarity logo are registered trademarks of Clarity International Limited, in Australia and other countries. All other trademarks or registered service marks in this document are the property of Clarity International or their respective owners. All specifications are subject to change without notice. Clarity International assumes no responsibility for any inaccuracies in this document or for any obligation to update information in this document. Clarity International reserves the right to change, modify, transfer, or otherwise revise this publication without notice.

Document History

Version	Issued By	Issue Date	Comments
1.0	Raj Thangiah	01 April 2007	



Only Clarity Maps the Network to the Service and to the Customer

Key Contacts

For more details on this proposal, please contact:

Contact: Mel Cantarella, Director - Global Alliances

Email: melc@clarity.com

Tel: +61 (2) 9925 5000

Fax: +61 (2) 9955 9999

Clarity International Limited

Level 41, Northpoint Tower

100 Miller Street

North Sydney NSW 2060

Australia



Table of Contents

1	OVERVIEW OF IMPLEMENTATION TRAINING.....	5
2	COURSE CONTENT	8
2.1	Clarity Overview.....	8
2.2	Clarity OSS - Inventory Suite.....	10
2.3	Clarity OSS - Fulfillment Suite.....	11
2.4	Clarity OSS – Assurance Suite.....	12
2.5	Clarity Data Model.....	14
2.6	Clarity System Connect (APIs).....	15
2.7	Clarity Element Connect (Network Mediation).....	17
2.8	Clarity System Installation and Administration.....	19
	APPENDIX 1 – PRIOR READING MATERIAL.....	21
	APPENDIX 2 – COMMERCIAL TERMS.....	22



1 Overview of Implementation Training

The Clarity implementation training course is a 10 day syllabus consisting of specialist courses related to Clarity product installation, configuration and integration. The course will assist a Clarity SI partner to:

- Understand how Clarity OSS may complement the SI's existing BSS/OSS solution footprint
- Develop an internal resource pool of Clarity skills with an understanding of Clarity feature/functionality
- Develop an internal resource pool of skills necessary to configure and integrate Clarity to client requirements
- Develop an internal knowledge database of typical Clarity project tasks and life cycles
- Gain official accreditation for delegates attending the course

Course Objective:

At the end of the course, each delegate will be able to:

- Be familiar with the various components that make up the Clarity System
- Be able to **configure** the system for specific OSS requirements
- Be familiar with how Clarity may be **integrated** to legacy and/or best in breed BSS/CRM solutions and network elements
- Be familiar with the Clarity API set and Data Model
- Be able to **configure** mediation drivers for network elements
- Be familiar with installation, operations and **system administration** of Clarity software



Only Clarity Maps the Network to the Service and to the Customer

The 10 day course consists of 3 major areas. These are:-

- Product Guides (Functionality – Configuration – Use)
- Product Architecture & Integration (Data Model – API set)
- System Administration and Operations

Course Structure:

- 1 - Clarity Overview (0.5 day)
- 2 - Clarity OSS Suite - Inventory (1 day)
- 3 – Clarity OSS Suite - Service Fulfilment (1 day)
- 4 – Clarity OSS Suite - Service Assurance (1.5 days)
- 5 - Clarity Data Model (2 days)
- 6 - Clarity System Connect (APIs) (1 day)
- 7 - Clarity Element Connect (Network Mediation) (2 days)
- 8 – Clarity Installation and System Administration (1 day)

Target Audience: Technical OSS consultants intended to work as business analysts, solution architects, systems engineers, developers, data migrators, testers on Clarity implementation projects.

Course Duration: 10 days

Course Format: Presentations, workshops, demonstrations

Maximum Class Size: 10 delegates

Course Prerequisite : A proficient understanding of Telecommunications Network topologies and Service offerings and business processes for network and service provisioning and assurance.

Familiarity with industry standards for OSS including TMN, eTOM, and NGOSS.

Familiarity with at least one COTS inventory, provisioning, and assurance product.



Only Clarity Maps the Network to the Service and to the Customer

**Documentation
Provided :**

Knowledge of UNIX commands and Oracle (DBA, PL/SQL).

Presentation material, product documentation



2 Course Content

2.1 Clarity Overview

Objective:

A prerequisite for all training, this course defines the purpose and key functionality of each user application within the Clarity suite to give a full understanding of Clarity's many advantages. The course will provide an overview of the Clarity solution set and capability to support OSS requirements of fixed, wireless and next generation networks providers.

Outline:

- Overview of Clarity Product Suite
- Clarity Solution Pack for Mobile
 - Typical Business Requirements
 - Solution Architecture
 - Value Proposition
- Clarity Solution Pack for Fixed Line
 - Typical Business Requirements
 - Solution Architecture
 - Value Proposition
- Clarity Solution Pack for NGN
 - Typical Business Requirements
 - Solution Architecture
 - Value Proposition



Only Clarity Maps the Network to the Service and to the Customer

Target Audience:	OSS Consultants, Business Analysts, Solution Architects, System Integration Specialists, Implementation Consultants
Course Duration:	0.5 day
Course Format:	Presentation
Maximum Class Size:	10 delegates
Course Prerequisite :	Telco domain experience
Documentation Provided :	Presentation material



2.2 Clarity OSS - Inventory Suite

Objective:

This course will give delegates an overview of the functionality of the Clarity Inventory module. The course will also provide information on the configuration of the inventory system to reflect the network operated by a telecommunications service provider. Information presented includes network modelling and circuit design.

Outline:

- Functional Overview
- Network Modelling
- Circuit Design
- Equipment Templates

Target Audience:	OSS Consultants, Business Analysts, Solution Architects, Implementation Consultants
Course Duration:	1 day
Course Format:	Presentation, demonstration
Maximum Class Size:	10 delegates
Course Prerequisite :	Familiarity with at least one COTS inventory product. Familiarity with telecommunications network technologies and topologies including access networks, transmission, switching, IP.
Documentation Provided :	Presentation material, product documentation



2.3 Clarity OSS - Fulfillment Suite

Objective:

This course will give delegates an overview of functionality of the Clarity Fulfillment applications. The course will provide information on the configuration of applications responsible for the automation of work flow, service activation and provisioning.

Outline:

- Functional Overview
- Configuration of implementation tasks
- Service order lifecycle
- Workflow design and implementation

Target Audience:	OSS Consultants, Business Analysts, Solution Architects, Implementation Consultants
Course Duration:	1 day
Course Format:	Presentation, demonstration
Maximum Class Size:	10 delegates
Course Prerequisite :	<p>Familiarity with industry standards for OSS including TMN, eTOM, and NGOSS.</p> <p>Familiarity with at least one COTS provisioning product</p> <p>Familiarity with provisioning processes.</p> <p>Familiarity with products/services commonly offered by telecommunications service providers including fixed line, mobile, data and IP products.</p> <p>Knowledge of Oracle Workflow or equivalent workflow product.</p>
Documentation provided :	Presentation material, product documentation



2.4 Clarity OSS – Assurance Suite

Objective:

This course will give delegates an overview of functionality of the Clarity Service Assurance applications. The course will provide information on the configuration of applications responsible for Network Management, SLA Management, Fault and Alarm Management, Trouble Tickets and Performance Management.

Outline:

- Functional Overview of major applications
- Configuration of Alarms
- Configuration of Correlation
- Configuration of Performance
- Configuration of Trouble Ticketing and Workflows
- Configuration of Network Diagrams and Network Maps
- Configuration of SLAs

Target Audience: OSS Consultants, Business Analysts, Solution Architects, Implementation Consultants

Course Duration: 1.5 days

Course Format: Presentation, demonstration

Maximum Class Size: 10 delegates

Course Prerequisite : Familiarity with industry standards for OSS including TMN, eTOM, and NGOSS.

Familiarity with the business processes of a Network Operations Centre / Network Management Centre / Operations Maintenance Centre

Familiarity with at least one industry standard NMS product.

Familiarity with XML, Java and Oracle Workflow.



Only Clarity Maps the Network to the Service and to the Customer

**Documentation
Provided :**

Presentation material, product documentation



2.5 Clarity Data Model

Objective:

This course will enable systems integrators and developers to understand the main areas of the Clarity data model through study of the Public Schema.

The course explains how to obtain key data from Clarity as may be required for integration with other systems (data warehousing), loading of data during data migration, and generation of customer specific / end user reports.

This course compliments the System Connect course (which explains published APIs that access the data model).

Outline:

- Clarity Data Model
- Clarity Data Dictionary
- Clarity Data Migration Scripts
- Clarity Report Generation

Target Audience: OSS Consultants, System Integration specialists, Data Migration Consultants, System Developers (Reporting), Implementation Consultants

Course Duration: 2 days

Course Format: Presentation, hands on practical

Maximum Class Size: 10 delegates

Course Prerequisite : A proficient understanding of Telecommunications Network topologies and Service offerings and business processes for network and service provisioning and assurance.

Knowledge of Oracle (DBA, PL/SQL) and at least one end user report development tool (preferably Oracle)

Documentation Provided : ER Diagram, Data Dictionary



2.6 Clarity System Connect (APIs)

Objective:

The course introduces the technical construction of Clarity and provides an overview of the available integration methods, tools and API set. The course will enable the delegate to understand how Clarity may be integrated to other BSS/OSS applications.

This course provides an introduction to the Clarity stored procedure APIs explaining how the APIs can be used for integrating Clarity with other systems. The course includes practical exercises demonstrating the use of stored procedures using a number of programming languages e.g. using shell scripts and PL/SQL. The course will also discuss use of EAI type products to undertake system integration.

Outline:

- Clarity Technical Architecture
- Integration Scenarios
- Integration Tools
- API set
- Business Interfaces
- Integration Policy

Target Audience: OSS Consultants, Business Analysts, Solution Architects, System Integration specialists, Implementation Consultants

Course Duration: 1 day

Course Format: Presentations, hands on practical

Maximum Class Size: 10 delegates

Course Prerequisite : Familiarity with industry standards for OSS including TMN, eTOM, and NGOSS.

Familiarity with at least one COTS inventory, provisioning, and assurance product.



Only Clarity Maps the Network to the Service and to the Customer

Knowledge of UNIX commands and Oracle (DBA/PL/SQL).

**Documentation
Provided :**

Presentation material, product documentation



2.7 Clarity Element Connect (Network Mediation)

Objective:

This course will give delegates an understanding of how Clarity integrates to the network layer, and performs functions such as auto-discovery, provisioning, alarm management and performance management. The course will provide a hands on guide on how mediation drivers may be configured to support integration of network elements using a variety of industry standard protocols.

Outline:

- Functional Overview of Element Connect applications
- Hands on practical on network interface development

Target Audience: OSS Consultants, System Integration specialists, Implementation Consultants

Course Duration: 2 days

Course Format: Presentation, hands on practical

Maximum Class Size: 10 delegates

Course Prerequisite : A proficient understanding of Telecommunications Network topologies and Service offerings and business processes for network and service provisioning and assurance.

Familiarity with interface development utilising industry standard protocols e.g. XML, HTTP, Corba, X.25

Knowledge of UNIX commands

Experience configuring or developing mediation devices drivers for provisioning, alarms, performance or autodiscovery.



Only Clarity Maps the Network to the Service and to the Customer

**Documentation
Provided :**

Presentation material, product documentation



2.8 Clarity System Installation and Administration

Objective:

This course will give delegates an overview of the installation and operation of the Clarity applications – covering the scheduling, running and monitoring of Process Plans and Tasks.

Outline:

- Clarity Platform Requirements
- Installation of Clarity Software Components
- Upgrade of Clarity Software Components
- Fault Tolerance and Disaster Recovery
- Overview of Day to Day Operations
- Volume Processing Applications
- System Monitor and the Task Master
- Backup, Archiving and Deletion
- Trouble Shooting

Target Audience: System Engineers, Support, Operations and Administration staff

Course Duration: 1 day

Course Format: Presentation, hands on practical

Maximum Class Size: 10 delegates

Course Prerequisite : Completion of Functional Overview courses for Fulfilment, Assurance and Inventory Management

Knowledge of UNIX, Microsoft Windows Operating System and Oracle Database, Workflow and Application Software (10G)



Only Clarity Maps the Network to the Service and to the Customer

**Documentation
Provided :**

Presentation material, product documentation, Clarity
Installation Manual, Clarity System Administration
Manual



Only Clarity Maps the Network to the Service and to the Customer

Appendix 1 – Prior Reading Material

1. Clarity Product Overview
2. Clarity Product Brochures
3. Clarity Case Studies
4. Clarity Functional Specifications
5. Clarity User Manuals



Appendix 2 – Commercial Terms

Clarity delivers SI training within our offices in Sydney. Remote training is currently not offered, as a number of Clarity SME's will be involved in training and education delivery.

The following commercial terms apply:-

- Training courses are charged at US\$605 per delegate per day. Hence the total cost of the 10 day SI course for 10 delegates is US\$60,500.
- Maximum class size of 10 delegates.
- Payment terms: 100% payment with PO. Payment 30 days from invoice date
- Cancellation fees apply
- Accreditation is offered to delegates after successful completion of all courses
- Standard Clarity terms and conditions apply

About Clarity

Clarity is a global provider of an award-winning, pre-integrated next generation Operational Support System (OSS) that is helping to build and manage some of the worlds most advanced telecommunications networks.

Clarity OSS is a convergent system that integrates diverse network technologies to support delivery of a full range of products and services. Clarity OSS is built on an integrated data and process model offering a single point of data entry, end-to-end process support and unified reporting. It is flexible, evolutionary and quickly configured to support new processes, new network technologies and new product offerings.

Established in 1993, Clarity's Global Headquarters and Technology Centre is based in Sydney, Australia.

Clarity can be found on the web at www.clarity.com

**CLARITY
INTERNATIONAL
LIMITED**

LEVEL 41
NORTHPOINT TOWER
100 MILLER STREET
NORTH SYDNEY
NSW 2060

TEL: +61 (2) 9925 5000
FAX: +61 (2) 9955 9999
WWW.CLARITY.COM