



Introduction to NGOSS

COURSE OVERVIEW

New Generation Operations Systems and Software (NGOSS) is the telecom industry's only true standard for development and deployment of OSS/BSS (Operations/Business Support Systems) that are easy to integrate, flexible, and easy to manage throughout their lifecycle. To learn more about NGOSS, visit the TM Forum website NGOSS section {link}.

This course provides delegates with a broad introduction to the NGOSS framework, covering the inherent relationship between all of its components. After a review of the basics, objectives, background, and terminology, this course digs into the essential aspects of TeleManagement Forum's (TM Forum) NGOSS toolkit, including:

- The "Lean Operator Paradigm"
- The Life Cycle Methodology for use of NGOSS,
- The application of the eTOM (Enhanced Telecom Operations Map®) in developing NGOSS-based solutions
- Description of the SID (Shared Information Data Model) and its relationship with other NGOSS elements
- Technology Neutral and Technology Specific Architecture.

This course includes a workshop in which the students have the "hands-on" opportunity to work in teams on an NGOSS assignment.

UPON COMPLETING THIS COURSE, DELEGATES WILL BE ABLE TO:

- Identify all the components of NGOSS and the relationship between them
- Understand NGOSS lifecycle and methodology
- Understand NGOSS architecture (Technology-Neutral and Technology-Specific)
- Understand basic concepts of eTOM and the SID, and their relationship to NGOSS

WHO SHOULD ATTEND

This course provides attendees with a basic understanding of NGOSS and is geared to OSS/BSS professionals who are or might be in the future involved in developing BSS/OSS solutions using NGOSS methodologies. These include: Solution architects, analyst, modelers, developers, and integrators.

PRE-REQUISITES

None

AGENDA

- NGOSS Lifecycle & Methodology Overview
- NGOSS Architecture
- Using eTOM and the SID in NGOSS-Based Development



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- Summary and Document Map
- NGOSS Workshop.

COURSE OUTLINE

Overview

This initial module introduces the student to the TM Forum, its mission and charter, its current challenges, and the role of NGOSS in resolving these challenges. In this section, the student is also introduced to the current fragmented telecom process environment, and to the vision of “Lean Operator” through adherence to NGOSS methodology:

- The TM Forum – An overview
- NGOSS – The origins & why it’s needed
- The who’s who in the NGOSS world
- Terminology
- The “Lean Operator” vision & strategy
- NGOSS concepts.

NGOSS Lifecycle & Methodology

In this section, we examine the NGOSS Lifecycle Methodology as an implementation tool:

- Definitions
- Giving credit where credit is due
- Methodology Goals
- The NGOSS Lifecycle, which incorporates four views (Business, System, Implementation, Deployment) has as its nucleus “The Knowledge Base”. The model is refined using the SANRR Methodology
- Using “Use Cases” in the NGOSS Lifecycle
- The Federation Model.

Using eTOM and the SID in NGOSS-based development

Here we define how the eTOM process and activity descriptions are used to create business flows describing what needs to happen, when,

and by whom. We describe how the feedback loop from the NGOSS development Lifecycle is used to validate the eTOM best practices and how the SID provides a data definition framework underpinning:

- eTOM – Definition and goals
- The NGOSS-to-eTOM tie-in
- SID – Definition and goals
- The NGOSS-to-SID tie-in.

NGOSS Architecture

In this section, we describe various NGOSS architecture concepts, including TNA (Technology Neutral Architecture), the notion of Component and Component Decomposition, Service, and Contract. We also define the concept of “Federation Model”

- Logical and Physical views
- TNA
- NGOSS architecture concepts
- Architecture Component model
- Service and Contract concepts
- Component decomposition.

Summary & Document Map

This section summarizes the role of NGOSS in providing a framework for an organized and consistent development life cycle, and the enabling of interoperability between platforms. Additionally this section highlights TM Forum current events with respect to the evolution of the NGOSS model. The student is also provided with a map of currently available documentation related to NGOSS, eTOM, and SID.



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NGOSS WORKSHOP

This workshop is an opportunity for the student to practice the concepts learned during the first half of this course. The class is divided into work teams; each work team is given an assignment relating to each of the NGOSS “quadrants” (Business, System, Implementation, and Deployment) and asked to use the NGOSS concepts to design and document its answers. The instructor then moderates an open discussion around the teams’ answers.