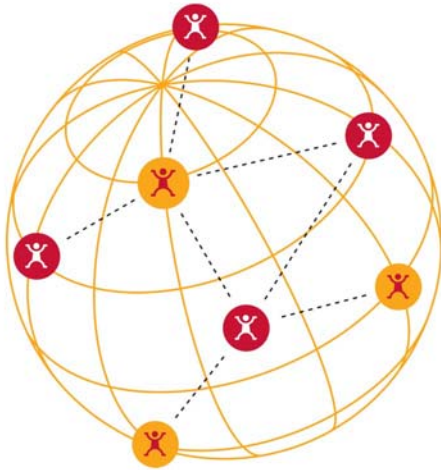


TRAINING PROGRAM OUTLINE



INTERNATIONAL IP INTERCONNECTION – OPERATIONAL ASPECTS

Based on the work of the i³ Forum

DESCRIPTION

A 2-day Training Program to provide participants with an understanding of the i³ Forum's recommendations regarding the operation of international voice IP interconnections and the migration of those interconnections from TDM to IP.

OBJECTIVES

- To define and explain the steps required in the migration of an international voice TDM-based interconnection to an IP-based interconnection, from pre-service interoperability testing to migration of traffic to the closing of the TDM link
- To outline the appropriate test configurations between carriers
- To define test case scenarios for testing interoperability for various voice-related services exchanged over an international IP interconnection
- To review the Quality of Service (QoS) parameters that are recommended for use in ensuring adequate quality on the new IP route before live traffic migration
- To discuss real-life case studies and the best practices that can be derived from them



TOPICS

- Introduction
 - The changing environment in international voice interconnection
 - Overview of the i³ Forum and its work

- The migration process from TDM to international IP interconnection
 - Trial stage (pre-service interoperability testing)
 - Planning
 - IP link configuration
 - Switch configuration
 - Testing
 - Tuning
 - Migration stage (move to in-service operation)
 - Quality monitoring
 - Traffic migration
 - TDM link closing

- Pre-service inter-operability testing
 - Importance
 - Scope and assumptions
 - High level configuration between carriers
 - Typical basic VoIP call flow between carriers
 - Lab hardware and software
 - I³ Forum interconnect interface templates
 - I³ Forum interconnection form for international voice services
 - Contact information
 - Services interconnect form
 - Bandwidth chart
 - IP interconnection examples

- Acceptance testing
 - Entrance criteria
 - Exit criteria
 - Test cases to be run
 - Required test data to assess test results
 - Agreed parameters to be tracked and acceptable results



- Test case scenarios
 - Initial IP testing between carriers
 - Basic call flow and fax tests for carriers
 - Potential testing scenarios to be agreed upon between carriers
 - Voice quality tests
 - Fax quality tests
 - Scenarios for mobile services over IP interconnections
 - I³ Forum test results record sheet
- Fine tuning of interoperability
- Quality monitoring on new route
 - Recommended QoS parameters to be monitored
- Traffic migration and closure of TDM link
- Migration case studies
- Best practices in migration and operations

TARGET AUDIENCE

Telecommunications managers and personnel looking to gain an understanding of the i3 forum's operational recommendations with respect to international IP interconnection and the migration of voice interconnections from TDM to IP.

METHODOLOGY

Neotelis Training Programs combine expert presentations, workshops, case studies, hands-on activities and discussions on real-life situations faced by participants.



Complete training material is provided to all participants for future reference and follow-up action plans.

LOCATION

Our Training Programs are held at regular intervals in selected cities around the world. Upon request, our expert trainers can lead Training Programs at the location of your choice. If interested, please contact us at training@neotelis.com.

EXPERTISE

Neotelis provides consulting and training services to organizations worldwide. Its team of experts has trained thousands of individuals in technical, managerial and executive roles, who are working for operators, regulators, policy-makers, governments and private sector corporations in over 100 countries around the world.

The i³ Forum brings together the communications expertise of more than 37 telecommunications providers, representing a combined retail base of over 1.5 billion customers across more than 100 countries. The goal of the i³ Forum is to develop collaborative recommendations for an industry-wide transition of voice and related services to Internet Protocol (IP). The forum's unified effort to expedite global IP-based voice implementation support widespread access to innovative and high quality IP-based services and applications.

