

JTIDS / MIDS Network Management

Table of Contents

1. Introduction

- 1.1 Purpose
- 1.2 Origination
- 1.3 Scope

2. MIDS Network Management Overview

- 2.1 Introduction
- 2.2 General Principles
- 2.3 Organisation and Authority

3. Network Planning

- 3.1 Introduction
- 3.2 Operational Environment
- 3.3 Networks

4. Network Design

- 4.1 Introduction
- 4.2 Network Design Aims
- 4.3 Network Design Requirements
 - 4.3.1 Joint Networks
 - 4.3.2 Combined Networks
- 4.4 Network Design Functions
 - 4.4.1 Generation of Initialisation Data
 - 4.4.2 Default Values
 - 4.4.3 Time Slot Capacity Allocation Methodology
 - 4.4.4 Network Design Validation
 - 4.4.5 Maintenance of Network Design Libraries
 - 4.4.6 Archiving Facility
- 4.5 Network Design and Planning Details
 - 4.5.1 Network Structures
 - 4.5.2 Networks
 - 4.5.3 Network Switching
 - 4.5.4 Modes
 - 4.5.5 Track Numbers
 - 4.5.6 Receipt / Compliance for JUs with Multiple Terminals
 - 4.5.7 Synchronisation and Network Entry
 - 4.5.8 Time Slot Capacity Allocation
 - 4.5.9 Connectivity and Relay
 - 4.5.10 Relative Navigation
 - 4.5.11 Security
- 4.6 Network Distribution
 - 4.6.1 Distribution Medium Generation Facilities
 - 4.6.2 Configuration Management of Network Designs

5. MIDS Transmission Restrictions and Deconfliction Procedures

- 5.1 Introduction
- 5.2 Typical MIDS Restrictions
- 5.3 Common Frequency Clearance Criteria

6. Network Initiation

- 6.1 Introduction
- 6.2 Pre-Mission Planning
 - 6.2.1 Introduction
 - 6.2.2 Procedure
- 6.3 Initiating a Network
- 6.4 Purpose and Functions of the Initialisation Data Preparation Facility
 - 6.4.1 Overview
 - 6.4.2 NDF Supplied Data
 - 6.4.3 Parameter Entry and Amendment
 - 6.4.4 Management of Cryptographic Initialisation Parameters
 - 6.4.5 Management of Initialisation Data Sets
 - 6.4.6 Selection of Initialisation Data Sets
 - 6.4.7 Requirements for Terminal Initialisation
 - 6.4.8 Initialisation of Non-National Terminals
 - 6.4.9 Network Start-up

7. OPNET Management

- 7.1 Introduction
- 7.2 OPNET Management Roles
 - 7.2.1 Network Manager
 - 7.2.2 Subordinate Network Manager
 - 7.2.3 Network Participants
 - 7.2.4 OPNET Management Facilities
- 7.3 Network Monitoring
 - 7.3.1 Network Parameters
 - 7.3.2 Platform Parameters
 - 7.3.3 On-line Plan Parameters
- 7.4 Network Maintenance
 - 7.4.1 Time Slot Allocation
 - 7.4.2 Network Entry and Exit
 - 7.4.3 Relative Navigation
 - 7.4.4 Security
 - 7.4.5 Control Functions using Free Text Messages and Voice
 - 7.4.6 Leaving a Network
 - 7.4.7 Closing a Network
 - 7.4.8 Network Switching
 - 7.4.9 Structure Switching
 - 7.4.10 Surveillance Filter Management
 - 7.4.11 Link 11 / Link 16 Data Forwarding
 - 7.4.12 Link 11 / Link 16 Concurrent Operations

JTIDS/MIDS Network Management

Table of Contents (contd.)

8. Recording and Analysis

- 8.1 Introduction
- 8.2 Data Recording and Storage
 - 8.2.1 Recording at the NMF
 - 8.2.2 Recording at a Participant Platform
 - 8.2.3 Data Archiving
 - 8.2.4 NMF Recording and Analysis Facilities
- 8.3 Analysis
 - 8.3.1 On-line Analysis
 - 8.3.2 Off-line Analysis
- 8.4 Replay

9. Abbreviations

10. Definition of Terms