



AM-TR-TMO-000064

Ameritech OPTINET Reconfiguration Interface Specifications

To: All Interested Parties

Priority: N/A

Effective Date: August 1991

Issue Date: Issue 2, August 1991

Expires On: N/A

Training Time: N/A

Related Documents: N/A

Canceled Documents: N/A

Issuing Department: N/A

Distribution: NA

Business Unit: N/A

Points of Contact:

N/A

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This Technical Reference is published by Ameritech to inform the industry of Ameritech's preliminary view of the customer interface to the planned Ameritech OPTINET Reconfiguration Service (AORS).

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1. Introduction

1.1. *Purpose and Scope*

This document describes Ameritech's OPTINET Reconfiguration service to be offered through a common interface. Included are the physical interface and protocol required to access this service as well as information regarding Private Line and Special access services over which customer control can be exerted.

1.2. *Reason for Revision*

This document is being revised to reflect the correct name of the service (Ameritech OPTINET Reconfiguration Service) and to eliminate references to the Ameritech Operating Company packet network.

2. General Information

2.1. *General Service Description*

Ameritech OPTINET Reconfiguration Service (AORS) is an enhancement to leased Private Line and Special Access services which permits customers to exercise on-line control over the configuration of those services. This configuration capability is not available with all Telco Private Line and Special Access services.

2.2. Compatible Private Line and Special Access Services

The following services offer the AORS enhancement as an option. The corresponding technical references describing the interfaces to these services are also listed.

Voice Grade 2*	
Voice Grade 3*	
Voice Grade 4*	TR-NPL-000335 "Voice Grade Special
Voice Grade 5*	Access Service - Transmission
Voice Grade 6*	Parameter Limits and Interface
Voice Grade 7*	Combinations"
Voice Grade 8*	
Voice Grade 9*	
Program Audio*	TR-NPL-000337 "Program Audio Special Access & Local Channel Services"
OPTINET Base Rate Data Services*	TR-NPL-000341 "Digital Data Special Access Service - Transmission Parameter Limits and Interface Combinations"
High Capacity Digital Services *	TR-NPL-000342 "High Capacity Digital Special Access Service - Transmission Parameter Limits and Interface Combinations"

Refer to Bellcore Technical Reference TR-TSY-000366, Section 3
for Compatibility Groupings.

* - Services offered in Access Service tariffs. Like services with
similar parameters are filed in the state private line tariffs.

2.3. Customer Control Access

Customers will have the option of accessing the AORS crossconnect controller via dedicated or dial access links. The dial access interface will be via VT100 type terminal (or VT100 terminal emulation) into a dialback modem pool for routing to the AORS host. Multiple levels of security associated with the modem pools and host system will be present to insure the integrity of each customer's service.

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3. Specific Requirements

3.1. *Features and Functions*

AORS will allow the customer to make changes in the individual channel cross-connects within their leased Telco Private Line and Special Access DS-1 services. These changes may be mapped, stored and executed via the following feature options:

On Demand - The on demand option will execute immediate changes to the customer network configuration as specified by customer interaction with the system.

Reservation - The reservation option automatically executes a customer specified rearrangement at a customer specified time in the future.

Addition Major Customer Capabilities Include:

NETWORK MODEL CAPABILITY - Customers can predefine a network configuration of multiple cross-connections and initiate it with one command.

NETWORK ADMINISTRATION - The system keeps track of facilities, circuit identifications, reservations, facility status and facility use.

BASIC ROUTING CAPABILITY - Customers can define facility routes or paths to be used to connect channels in prespecified user defined tables.

ENHANCED ROUTING CAPABILITY - Customers can define routes that select a specific DS-0 or groups of DS-0s. This can override a basis route table.

DISASTER RECOVERY - Customers can predefine a recovery network and reconfigure on an emergency basis in the event of a failed facility to the customer premises.

FACILITY IDENTIFICATION - Customers can provide a pseudonym of their choice to Telco named facilities in the system. Configurations may be established to customer by connecting the pseudonyms at each end together.

3.2. *Interfaces*

User Access to AORS will be via:

ASCII
Asynchronous
1200-9600 B/s
Analog dial-up or private line access
VT100 Terminal or Terminal Emulation Protocol

3.3. *Customer Provided Equipment and Network Requirements*

The customer accesses AORS by means of a customer provided terminal which is or emulates asynchronous VT100 protocol over an analog dialup or private line link to the AORS system.

A. Terminal Requirements

- VT100 compatible asynchronous terminal (ISO TC 97/sc21/WG5 N17) or a PC with software which emulates a VT100 terminal
- Communications port
- Asynchronous Hayes compatible modem (1200-9600 b/s)

B. Network Requirements

- Analog Dialup or Private Line link to AORS system. Modem settings and login procedures will be provided by the AOC at the time of service order.