

CONTRIBUTION TO SONET INTEROPERABILITY FORUM

SIF PROJECT: SONET CMISE Profile

TITLE: SIF SONET CMISE Profile

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ABSTRACT: The previous version of the SIF SONET CMISE Profile (SIF-TA-9601-006R2) was voted on and approved by SIF. Due to copyright concerns, this new version (SIF-TA-9601-006R3) simply points to ISO ISP 11183-2, rather than copying from (and thus superceding) the ISP. This version is technically equivalent to the earlier version that has been voted on and approved by SIF.

NOTICE

This contribution has been prepared to assist SIF. This document is offered to SIF as a basis for discussion and is not a binding proposal on Bell Communications Research (Bellcore) or any other company. The requirements presented in this document are subject to change in form and numerical value after more study. Bellcore specifically reserves the right to add to, amend, or withdraw the statements contained herein.

**This document has received the approval of the SONET Interoperability Forum (SIF).
December 3, 1996**

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1 Introduction

This document specifies a profile for the CMISE/ROSE protocol to be used by SONET NEs across the SONET OS/NE interface. The profile is intended to be used together with SONET Upper Layers Profile that is compatible with this CMISE/ROSE profile and is described in the Bellcore document GR-253-CORE (Issue 2, December 1995). The profile is essentially the same as that defined in ISO/IEC ISP 11183-2 except for some refinement that are explicitly described in Section 5 of this contribution.

2 Source Documents

ISO/IEC ISP 11183-2:1992, *Information technology - International Standardized Profiles AOM In OSI Management - Management Communications - Part 2: CMISE/ROSE for AOM12 - Enhanced Management Communications.*

GR-253-CORE, Issue 2:1995, *Synchronous Optical Network (SONET) Transport Systems: Common Generic Criteria.*

3 Definitions and Notations

The definitions and notations used by the SONET CMISE/ROSE Profile are essentially the same as those that are used in the ISO/IEC ISP 11183-2. See Section 3 of that document for the details.

4 Abbreviations

AOM	Application OSI Management
CMIP	Common Management Information Protocol
CMISE	Common Management Information Service Element
ISP	International Standardized Profile
NE	Network Element
OS	Operations System
OSI	Open Systems Interconnection
ROSE	Remote Operation Service Element
SONET	Synchronous Optical Network

5 The SONET CMISE/ROSE Profile

The SONET CMISE/ROSE profile for the OS/NE interface is essentially the same as that defined in ISO/IEC ISP 11183-2 except that the following changes shall be made to that profile:

- Table A.1 - Association Initialization

The support of association initialization for the initiator shall be optional and the support of association initialization for the responder shall be mandatory. That is, change the entry in the profile column of the association initiator from o.1 to o and change the entry in the profile column of the association responder from o.1 to m. After the change, Table A.1 of the profile shall be as follow:

Capability		Association initiator			Association responder		
Index	Does the implementation support:	Base Std.	Profile	Support	Base Std.	Profile	Support
A.1.1.1	association initialization ?	o.1	o		o.1	m	

- Table A.122 - ROSE association and operation class support

ROSE operation class 1 shall not be used across the SONET OS/NE interface. That is, change the entry A.122.2 in the profile column from o to i. After the change, Table A.122 of the profile shall be as follow:

Index	Capability	Base Std.	Profile	Support
A.122.1	Does the implementation support ROSE association class 3 ?	m	m	
A.122.2	Does the implementation support ROSE operation class 1?	o.1	i (1)	
A.122.3	Does the implementation support ROSE operation class 2?	o.1	m	
A.122.4	Does the implementation support ROSE operation class 5?	m	m	

(1) ROSE operation class 1 shall not be used across the SONET OS/NE interface.

- An additional column, labeled with the heading “Support” shall be added to the following tables for an implementor to indicate whether an entry of the table is supported in the implementation:

Tables A.7, A.9, A.10, A.13a, A.13b, and A.29 through A.120.

- Two additional subcolumns, both labeled with the heading “Support” shall be added to the following tables, one under the “Sending” column and the other one under the “Receiving” column:

Tables A.3, A.4, A.5, and A.8.