



SLOVENSKI STANDARD
SIST EN 300 645 V1.2.1:2003
01-november-2003

Telekomunikacijsko upravljavno omrežje (TMN) - Radiorelejna oprema s sinhrono digitalno hierarhijo (SDH) - Informacijski model, uporabljen na vmesnikih Q

Telecommunications Management Network (TMN); Synchronous Digital Hierarchy (SDH) radio relay equipment; Information model for use on Q interfaces

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Ta slovenski standard je istoveten z: **EN 300 645 Version 1.2.1**
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ICS:

33.040.20	Prenosni sistem	Transmission systems
33.060.30	Radiorelejni in fiksni satelitski komunikacijski sistemi	Radio relay and fixed satellite communications systems

SIST EN 300 645 V1.2.1:2003 **en**

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EN 300 645 V1.2.1 (1998-10)

European Standard (Telecommunications series)

Telecommunications Management Network (TMN); Synchronous Digital Hierarchy (SDH) radio relay equipment; Information model for use on Q-interfaces

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Reference

REN/TMN-00010 (5z000ioo.PDF)

Keywords

SDH, transmission, DRRS, information model, management, network, radio, TMN, transport

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Foreword

This European Standard (Telecommunications series) has been produced by ETSI Technical Committee Telecommunication Management Network (TMN).

The present document describes the information model for Radio Relay Network Elements, which use the SDH multiplexing structure, in object oriented terms, using ISO templates.

National transposition dates	
Date of adoption of this EN:	23 October 1998
Date of latest announcement of this EN (doa):	31 January 1999
Date of latest publication of new National Standard or endorsement of this EN (dop/e):	31 July 1999
Date of withdrawal of any conflicting National Standard (dow):	31 July 1999

1 Scope

The present document defines the information model to be used at the interface between network elements and management systems, for the management of Radio Relays equipments which use the SDH.

The present document defines:

- the information model fragment for Radio Relay Network Elements using SDH multiplexing.

The present document does not define:

- the protocol stack to be used for message communication;
- the network level management processes;
- the application contexts;
- the conformance requirements to be met by an implementation of this information model;
- information models for other systems or equipment.

The information model defined here (and the corresponding message set) is concerned with the management of network elements, the equipment by which they are implemented and the functions contained within them. More precisely, it applies to an equipment domain visible at the element manager to element interface and is only concerned with information available within that domain. Information proper to the domain of a network level management process is not included within this model.

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2 References (standards.iteh.ai)

The following document contain provisions which, through reference in this text, constitute provisions of the present document.

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- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, subsequent revisions do apply.
- A non-specific reference to an ETS shall also be taken to refer to later versions published as an EN with the same number.

[1] ITU-T Recommendation G.774: "Synchronous digital hierarchy (SDH) management information model for the network element view".

3 Abbreviations

For the purposes of the present document, the following abbreviations apply:

SDH	Synchronous Digital Hierarchy
ISO	International Organisation for Standardisation

4 Object classes

The use of object identifier defined by ETSI in previous versions of the present document should be deprecated.

```

BEGIN
IMPORTSGDMO
radioSPITTPBidirectional,
radioSPITTPSink ,
radioSPITTPSource,
sdhRadioProtectionGroup,
sdhRadioProtectionUnit,
msTcCTPBidirectional,
msTcCTPSink ,
msTcCTPSource,
msTcTTPBidirectional,
msTcTTPSink,
msTcTTPSource,
au4HopcCTPBidirectional,
au4HopcCTPSink ,
au4HopcCTPSource,
vc4HopcTTPBidirectional,
vc4HopcTTPSink,
vc4HopcTTPSource,
radioUnprotectedCTPBidirectional,
radioUnprotectedCTPSink,
radioUnprotectedCTPSource,
radioProtectedTTPBidirectional,
radioProtectedTTPSink,
radioProtectedTTPSource
FROM {itu-t(0) recommendation(0) g(7) g774(774) hyphen(127) sdhRadioIM(8) informationModel(0)
managedObjectClass(3)};
END

```

5 Packages

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```

BEGIN
IMPORTSGDMO
atpcPackage,
radioSPIPackage,
rxLOSNotificationPackage,
demLOSNotificationPackage,
txLOSNotificationPackage,
modLOSNotificationPackage,
exerciseOnOffPkg,
singleExercisePkg,
privilegedChannelPkg,
radioHoldOffTimePkg
FROM {itu-t(0) recommendation(0) g(7) g774(774) hyphen(127) sdhRadioIM(8) informationModel(0)
package(4)};
END

```

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6 Parameters

```

BEGIN
IMPORTSGDMO
radioProtectionStatusParameter
FROM {itu-t(0) recommendation(0) g(7) g774(774) hyphen(127) sdhRadioIM(8) informationModel(0)
asn1Module(2) sdhRadioProtASN1(1) parameter(5)};
END

```

7 Name bindings

```

BEGIN
IMPORTSGDMO
radioSPITTPSink-managedElement,
radioSPITTPSource-managedElement,
rsCTPSink-radioSPITTPSink,
rsCTPSource-radioSPITTPSource,
augSink-msTcTTPSink,
augSource-msTcTTPSource,
msTcCTPSink-rsTTPSink,
msTcCTPSource-rsTTPSource,
msTcTTPSink-sdhNE,
msTcTTPSource-sdhNE,
vc4HopcTTPSink-sdhNE,
vc4HopcTTPSource-sdhNE,
au4HopcCTPSink-augSink,
au4HopcCTPSource-augSource
FROM {itu-t(0) recommendation(0) g(7) g774(774) hyphen(127) sdhRadioIM(8) informationModel(0)
nameBinding(6)};
END

```

8 Attributes

```

BEGIN
IMPORTSGDMO
atpcImplemented,
atpcEnabled,
radioFrequency,
radioSPITTPId,
hitless,
radioHoldOffTime,
rpsSummaryStatus,
exerciseOn,
privilegedChannel,
radioProtectionStatus,
radioUnprotectedCTPID,
radioProtectedTTPID
FROM {itu-t(0) recommendation(0) g(7) g774(774) hyphen(127) sdhRadioIM(8) informationModel(0)
attribute(7)};
END

```

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9 Actions

```

BEGIN
IMPORTSGDMO
invokeRadioExercise
FROM {itu-t(0) recommendation(0) g(7) g774(774) hyphen(127) sdhRadioIM(8) informationModel(0)
action(9)};
END

```