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European Standard (Telecommunications series)

**Telecommunications Management Network (TMN);
Linear multiplex section protection configuration
information model for the
Network Element (NE) view**



Reference

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Foreword

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

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1 Scope

The present document provides an information model for configuration of SDH MSP groups.

The present document defines:

- an information model, as related to the unidirectional performance monitoring function for the SDH.

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 NEs, 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.

2 References

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

- 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.774-09 (1997): "Synchronous Digital Hierarchy (SDH) configuration of multiplex section protection for the network element view".

3 Abbreviations

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

ITU	International Telecommunication Union
MSP	Multiplex Section Protection
NE	Network Element
SDH	Synchronous Digital Hierarchy
TMN	Telecommunications Management Network

4 MSP configuration model

The information model for configuration of MSP groups is described ITU-T Recommendation G.774-09 [1].

5 Managed object class definitions

In the context of the present document, the IMPORTS clause specifies the object classes which can be instantiated in the Scope of the present document. The IMPORTS clause does not include uninstantiated superclasses.

```
BEGIN

IMPORTS

protectionCoordinator,
sdhMSProtectionCoordinator

FROM {itu-t(0) recommendation(0) g(7) g774(774) hyphen(127) protCoord(9) informationModel(0)
      managedObjectClass(3) }

;

END
```

6 Packages

None.

7 Attributes

```
BEGIN

IMPORTS

protectionCoordinatorId

FROM {itu-t(0) recommendation(0) g(7) g774(774) hyphen(127) protCoord(9) informationModel(0) attribute(7) }

;

END
```

8 Actions

```
BEGIN

IMPORTS

dismissProtection,
establishProtection,
modifyProtection

FROM {itu-t(0) recommendation(0) g(7) g774(774) hyphen(127) protCoord(9) informationModel(0) action(9) }

;

END
```

9 Notifications

None.

10 Parameters

```
BEGIN
IMPORTS
mSPConfigurationError,
mSPGroupConfigurationParameter,
mSPUnitConfigurationParameter,
protectionConfigurationError,
removeProtectionError
FROM {itu-t(0) recommendation(0) g(7) g774(774) hyphen(127) protCoord(9) informationModel(0) parameter(5) }
;
END
```

11 Name bindings

```
BEGIN
IMPORTS
protectionCoordinator-sdhNE
FROM {itu(0) recommendation(0) g(7) g774(774) hyphen(127) protCoord(9) informationModel(0)
nameBinding(6) }
;
END
```

History

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