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Telekomunikacijsko upravljavno omrežje (TMN) – Knjižnica razredov osnovnega upravljanega objekta za videz omrežne ravni

Telecommunications Management Network (TMN); Generic managed object class library for the network level view

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Foreword

This Interim European Telecommunication Standard (I-ETS) has been produced by the Network Aspects (NA) Technical Committee of the European Telecommunications Standards Institute (ETSI).

An ETSI standard may be given I-ETS status either because it is regarded as a provisional solution ahead of a more advanced standard, or because it is immature and requires a "trial period". The life of an I-ETS is limited to three years after which it can be converted into an ETS, have it's life extended for a further two years, be replaced by a new version, or be withdrawn.

Proposed announcement date	
Date of adoption of this I-ETS:	10 May 1996
Date of latest announcement of this I-ETS (doa):	31 August 1996

Introduction

This I-ETS provides a library of managed objects, for modelling the network level view described in ITU-T Recommendation M.3100 [10]. It identifies those Telecommunication Management Network (TMN) network level managed object classes that are generic (i.e. potentially apply to more than one specific information model).

These object classes are additional to those specified in I-ETS 300 293 [1] which enhances and extends ITU-T Recommendation M.3100 [10] in the area of the network element management view.

Whereas I-ETS 300 293 [1] concentrated on the network element view, this I-ETS extend the library of generic object classes available in the area of network level modelling (i.e. the network level view).

Although the work on the development of network level view managed object classes is at an early stage in its evolution, this I-ETS has been published to enable technology specific groups to profile the object classes in this I-ETS to produce implementable models (e.g. technology specific models). The Technology specific groups are encouraged to document their models in the form of an Ensemble.

It is anticipated that, as a result of feedback from groups using the Object classes contained in this I-ETS, it will be updated and published as an ETS within two years of publication.

No conformance statements have yet been prepared for these object classes. These will be produced as part of the Ensemble process.

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1 Scope

This Interim European Telecommunication Standard (I-ETS) describes the generic managed object class library for the network level view. It identifies those Telecommunication Management Network (TMN), as defined in ITU-T Recommendation M.3010 [8], network level managed object classes that are generic (i.e. potentially apply to more than one specific information model).

ITU-T Recommendation M.3100 [10] is extended by I-ETS 300 293 [1] in the area of the network element view, and this I-ETS in the area of the network level view.

This I-ETS addresses generically the abstractions of those aspects of telecommunication resources required to manage the network (e.g. equipment, networks and telecommunication services). It also includes the abstractions related to the management services.

This I-ETS does not address abstractions relevant to technology specific areas or implementation specific details.

The class library defined in this I-ETS specifies the managed objects that define the management interfaces between a user and a service provider where these exist on separate systems. User and service provider refer to network capabilities and should not be confused with service management terminology. The use of the class library between the Network layer Operations System Function (OSFN) and the Network Element layer Operations System Function (OSFE) (see figure 2) is to support a network level view. Other uses of the class library across this interface are for further study.

This I-ETS can be used for the definition of models to support TMN management services and/or management function sets using the TMN interface specification methodology (ITU-T Recommendation M.3020 [9]).

Following this methodology, the technique for the production of interfaces is divided into the following stages:

1) the definition of requirements upon which the managed object model will be based;

2) the translation of the above requirements into a generic object class library;

3) the specification of one or more interfaces;

4) the production of a set of conformance requirements.

This I-ETS covers stages 1 and 2. Stages 3 and 4 are to be completed by technology groups for specific applications using profiling formats such as Ensembles and International Standardised Profiles (ISPs).

The purpose and field of application for this I-ETS are as given in ITU-T Recommendation M.3100 [10].