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**Signalizacijski protokoli in komutacija (SPS) - Vmesnik Q3 v krajevni centrali (LE) za upravljanje in konfiguriranje vmesnikov V5 in pridruženih uporabniških profilov - 2. del: Proformna specifikacija izjave o skladnosti objektov upravljanja (MOCS)**

Signalling Protocols and Switching (SPS) - Q3 interface at the Local Exchange (LE) for configuration management of V5 interfaces and associated customer profiles; Part 2: Managed Objects Conformance Statement (MOCS) proforma specification

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Q3 interface at the Local Exchange (LE)  
for configuration management of V5 interfaces and  
associated customer profiles;  
Part 2: Managed Object Conformance Statement (MOCS)  
proforma specification**

**ETSI**

European Telecommunications Standards Institute

**ETSI Secretariat**

**Postal address:** F-06921 Sophia Antipolis CEDEX - FRANCE

**Office address:** 650 Route des Lucioles - Sophia Antipolis - Valbonne - FRANCE

**X.400:** c=fr, a=atlas, p=etsi, s=secretariat - **Internet:** secretariat@etsi.fr

Tel.: +33 92 94 42 00 - Fax: +33 93 65 47 16

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## Foreword

This European Telecommunication Standard (ETS) has been produced by the Signalling Protocols and Switching (SPS) Technical Committee of the European Telecommunications Standards Institute (ETSI).

This ETS is part 2 of a multi-part standard as described below:

Part 1: "Q3 interface specification at the Local Exchange (LE) for configuration management of V5 interfaces and associated customer profiles";

**Part 2: "Managed Object Conformance Statement (MOCS) proforma specification";**

The following standards are directly related to this ETS:

ETS 300 376: "Q3 interface at the Access Network (AN) for configuration management of V5 interfaces and associated user ports";

ETS 300 378: "Q3 interface at the Access Network (AN) for fault and performance management of V5 interfaces and associated user ports";

ETS 300 379: "Q3 interface at the Local Exchange (LE) for fault and performance management of V5 interfaces and associated customer profiles".

Transposition dates	
Date of adoption of this ETS:	17 November 1995
Date of latest announcement of this ETS (doa):	28 February 1996
Date of latest publication of new National Standard or endorsement of this ETS (dop/e):	31 August 1996
Date of withdrawal of any conflicting National Standard (dow):	31 August 1996

## Introduction

The purpose of this Managed Object Conformance Statement (MOCS) proforma is to provide a mechanism for a supplier of an implementation of a recommendation/standard which claims conformance to a managed object class to provide conformance information, including management information, in a standard form.

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## 1 Scope

This second part of ETS 300 377 provides the Managed Object Conformance Statement (MOCS) proforma for the base standard ETS 300 377-1 [1]. It identifies the mandatory, conditional and optional elements of the information model specified in ETS 300 377-1 [1].

## 2 Normative references

This ETS incorporates by dated and undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this ETS only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

- [1] ETS 300 377-1 (1994): "Signalling Protocols and Switching (SPS); Q3 interface at the Local Exchange (LE) for configuration management of V5 interfaces and associated customer profiles; Part 1: Q3 interface specification".
- [2] ETS 300 324-2 (1994): "Signalling Protocols and Switching (SPS); V interfaces at the digital Local Exchange (LE); V5.1 interface for the support of Access Network (AN); Part 2: Protocol Implementation Conformance Statements (PICS) proforma".
- [3] ETS 300 347-2 (1994): "Signalling Protocols and Switching (SPS); V interfaces at the digital Local Exchange (LE); V5.2 interface for the support of Access Network (AN); Part 2: Protocol Implementation Conformance Statements (PICS) proforma".
- [4] ISO/IEC 9646-7: "Information technology - Open systems interconnection - Conformance testing methodology and framework - Part 7: Implementation Conformance Statements".

## 3 Definitions, symbols and abbreviations

### 3.1 Definitions

For the purposes of this ETS, the following definitions apply:

**configuration management:** Each object class contains packages supporting creation, deletion and modification of instances of that object class. This is referred to as configuration management. In some cases, these packages are conditional.

**fault management:** Some object classes contain packages, in addition to those specified for configuration management, supporting fault reporting, logging, etc. This is referred to as fault management. Typically, these packages are conditional.

**performance management:** Some object classes contain packages, in addition to those specified for configuration management, supporting traffic measurements, reports when thresholds are exceeded, etc. This is referred to as performance management. Typically, these packages are conditional.

### 3.2 Symbols

The following common notation is used for the tables in this ETS:

- a first part of a table row  
 b second part of a table row  
 c third part of a table row

The following common notation, defined in ISO/IEC 9646-7 [4], is used for the "Status" column:

c	conditional
m	mandatory
o	optional
x	prohibited
-	not applicable

The following common notation, defined in ISO/IEC 9646-7 [4], is used for the "Support" column:

lg	the item is ignored (i.e., processed syntactically but not semantically)
N	not implemented
Y	implemented
-	not applicable

The following symbolic abbreviations are used throughout the proforma tables:

v5Q(LE)-nb	ccitt(0) identified-organization(4) etsi(0) v5LeConfigurationManagement(377) informationModel(0) nameBinding(6)
v5Q(LE)-pkg	ccitt(0) identified-organization(4) etsi(0) v5LeConfigurationManagement(377) informationModel(0) package(4)
v5Q(LE)-att	ccitt(0) identified-organization(4) etsi(0) v5LeConfigurationManagement(377) informationModel(0) attribute(7)
v5Q(LE)-act	ccitt(0) identified-organization(4) etsi(0) v5LeConfigurationManagement(377) informationModel(0) action(9)
v5Q(LE)-not	ccitt(0) identified-organization(4) etsi(0) v5LeConfigurationManagement(377) informationModel(0) notification(10)
admin-nb	ccitt(0) identified-organization(4) etsi(0) oca(291) informationModel(0) nameBinding(6)
admin-pkg	ccitt(0) identified-organization(4) etsi(0) oca(291) informationModel(0) package(4)
admin-att	ccitt(0) identified-organization(4) etsi(0) oca(291) informationModel(0) attribute(7)
smi2-pkg	joint-iso-ccitt ms(9) smi(3) part2(2) packages(4)
smi2-att	joint-iso-ccitt ms(9) smi(3) part2(2) attribute(7)
smi2-not	joint-iso-ccitt ms(9) smi(3) part2(2) notification(10)
m3100-pkg	ccitt recommendation m gnm(3100) informationModel(0) package(4)
m3100-att	ccitt recommendation m gnm(3100) informationModel(0) attribute(7)

### 3.3 Abbreviations

For the purposes of this ETS, the following abbreviations apply:

AN	Access Network
LE	Local Exchange
MOCS	Managed Object Conformance Statement
TMN	Telecommunication Network Management

## 4 Statements of conformance

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### 4.1 Statement of conformance to managed object class v5Interface

**Table 1: Object class support**

Index	Managed object class template label	Value of OBJECT IDENTIFIER for the class	Status	Support
1.1	v5Interface	{ccitt(0) identified-organization(4) etsi(0) v5LeConfigurationManagement(377) informationModel(0) managedObjectClass(3) 1}	m	

The supplier of the implementation shall state whether or not all mandatory features of the object listed above are supported in table 2.

**Table 2: Feature support**

Index	Sub-Index		Support
2.1	2.1.1	Is configuration management supported?	
	2.1.2	Are all mandatory features for configuration management supported?	
2.2	2.2.1	Is fault management supported?	
	2.2.2	Are all mandatory features for fault management supported?	

### 4.1.1 Name bindings

The supplier of the implementation shall state which name bindings of the managed object class are supported, in the "Support" and "Additional information" columns of table 3.

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**Table 3: Name binding support**

Index	Name binding template label	Value of OBJECT IDENTIFIER	Superior object class template label	Status	Support
3.1a	v5Interface - managedElement	{v5Q(LE)-nb 1}	managedElement AND SUBCLASSES	m	

**Table 3 (concluded): Name binding support**

Index	Status		Support		Additional information
	Object creation	Object deletion	Object creation	Object deletion	
3.1b	c	c			
c: if 2.1.1 then m else -.					

### 4.1.2 Packages

The supplier of the implementation shall state whether or not the packages specified by this managed object of this class are supported, in table 4.

Packages of superclasses which are not applicable are listed in the package support table only. The associated attributes, actions and notifications are not mentioned in the following tables.

Table 4: Package support

Index	Package label	Value of OBJECT IDENTIFIER	Status	Support
4.1	peerManagedElementPackage	{v5Q(LE)-pkg 5}	o	
4.2	supportedByObjectListPackage	{v5Q(LE)-pkg 7}	c1	
4.3	relationshipChangeNotificationPackage	{v5Q(LE)-pkg 6}	o	
4.4	commonDeleteBehaviourPackage	{v5Q(LE)-pkg 2}	m	
4.5	operationalStatePackage	{m3100-pkg 19}	o	
4.6	v5availabilityStatusPackage	{smi2-pkg 22}	o	
4.7	userLabelPackage	{m3100-pkg 32}	o	
4.8	locationNamePackage	{m3100-pkg 17}	o	
4.9	objectManagementNotificationsPackage	{m3100-pkg 20}	o	
4.10	stateChangeNotificationsPackage	{m3100-pkg 28}	o	
4.11	tmnCommunicationsAlarmInformationPackage	{m3100-pkg 30}	c2	
4.12	alarmSeverityAssignmentPointerPackage	{m3100-pkg 3}	c2	
4.13	packagesPackage	{smi2-pkg 16}	m	
4.14	allomorphicPackage	{smi2-pkg 17}	o	
c1:	if the information model is not only used for provisioning then m else -.			
c2:	if 2.2.1 then m else -.			

### 4.1.3 Attributes

The supplier of the implementation shall state whether or not the attributes specified by all the packages instantiated in a managed object class definition are supported, in the "Support" and "Additional information" columns of table 5. The supplier of the implementation shall indicate support for each of the operations for each attribute supported.

Table 5: Attribute support

Index	Attribute template label	Value of OBJECT IDENTIFIER	Status	Support	
5.1a	v5Interfaceld	{v5Q(LE)-att 34}	m		
5.2a	peerManagedElementld	{v5Q(LE)-att 25}	c1		
5.3a	supportedProtocolVersion	{v5Q(LE)-att 31}	m		
5.4a	serverV5Ttps	{v5Q(LE)-att 30}	m		
5.5a	clientUserPorts	{v5Q(LE)-att 14}	m		
5.6a	operationalState	{smi2-att 35}	c2		
5.7a	availabilityStatus	{smi2-att 33}	c3		
5.8a	supportedByObjectList	{m3100-att 40}	c4		
5.9a	userLabel	{m3100-att 50}	c5		
5.10a	locationName	{m3100-att 27}	c6		
5.11a	objectClass	{smi2-att 65}	m		
5.12a	nameBinding	{smi2-att 63}	m		
5.13a	packages	{smi2-att 66}	m		
5.14a	allomorpha	{smi2-att 50}	c7		
c1:	if 4.1 then m else -.	c4:	if 4.2 then m else -.	c7:	if 4.14 then m else -.
c2:	if 4.5 then m else -.	c5:	if 4.7 then m else -.		
c3:	if 4.6 then m else -.	c6:	if 4.8 then m else -.		

Table 5 (continued): Attribute support

Index	Status					
	SetByCreate	Get	Replace	Add	Remove	SetToDefault
5.1b	o	m	x	x	x	x
5.2b	m	m	m	x	x	x
5.3b	m	m	x	x	x	x
5.4b	x	m	x	x	x	x
5.5b	x	m	x	x	x	x
5.6b	x	m	x	x	x	x
5.7b	x	m	x	x	x	x
5.8b	m	m	x	x	x	x
5.9b	m	m	m	x	x	x
5.10b	m	m	m	x	x	x
5.11b	m	m	x	x	x	x
5.12b	m	m	x	x	x	x
5.13b	m	m	x	x	x	x
5.14b	m	m	x	x	x	x

Table 5 (concluded): Attribute support

Index	Support						Additional information
	SetByCreate	Get	Replace	Add	Remove	SetToDefault	
5.1c							
5.2c							
5.3c							
5.4c							
5.5c							
5.6c							
5.7c							
5.8c							
5.9c							
5.10c							
5.11c							
5.12c							
5.13c							
5.14c							

#### 4.1.4 Attribute groups

There are no attribute groups specified for this managed object class.

#### 4.1.5 Actions

The supplier of the implementation shall state whether or not the actions specified by all the packages instantiated in a managed object of this class are supported, in the "Support" and "Additional information" columns of table 6. The supplier of the implementation shall indicate support in terms on the confirmed and non-confirmed modes.

Table 6: Action support

Index	Action type template label	Value of action type identifier	Status	Support	Additional information
6.1	setReciprocalPointer	{v5Q(LE)-act 1}	m		
6.2	releaseReciprocalPointer	{v5Q(LE)-act 2}	m		
6.3	restart	{v5Q(LE)-act 14}	m		
6.4	systemStartup	{v5Q(LE)-act 16}	m		

#### 4.1.6 Notifications

The supplier of the implementation shall state whether or not the notifications specified by all the packages instantiated in a managed object of this class are supported, in the "Support" and "Additional information" columns of table 7. The supplier of the implementation shall indicate support in terms on the confirmed and non-confirmed modes.

Table 7: Notification support

Index	Notification type template label	Value of notification type identifier	Status	Support		Additional information
				Confirmed	Non-confirmed	
7.1a	objectCreation	{smi2-not 6}	c1			
7.2a	objectDeletion	{smi2-not 7}	c1			
7.3a	attributeValueChange	{smi2-not 1}	c1			
7.4a	stateChange	{smi2-not 14}	c2			
7.5a	relationshipChange	{smi2-not 12}	c3			
7.6a	restartResult	{v5Q(LE)-not 11}	m			
7.7a	systemStartupResult	{v5Q(LE)-not 12}	m			
c1:	if 4.9 then m else -.	c2	if 4.10 then m else -.	c3	if 4.3 then m else -.	