



INTERNATIONAL TELECOMMUNICATION UNION

ITU-T

TELECOMMUNICATION
STANDARDIZATION SECTOR
OF ITU

Q.816

Corrigendum 1
(08/2001)

SERIES Q: SWITCHING AND SIGNALLING
Q3 interface

CORBA-based TMN services
Corrigendum 1

ITU-T Recommendation Q.816 – Corrigendum 1

(Formerly CCITT Recommendation)

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ITU-T Recommendation Q.816

CORBA-based TMN services

CORRIGENDUM 1

Summary

This Corrigendum contains modifications to clauses 2, 6.2 and 8.1.1 of ITU-T Q.816 (2001).

Source

Corrigendum 1 to ITU-T Recommendation Q.816 was prepared by ITU-T Study Group 4 (2001-2004) and approved under the WTSA Resolution 1 procedure on 13 August 2001.

FOREWORD

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The approval of ITU-T Recommendations is covered by the procedure laid down in WTSA Resolution 1.

In some areas of information technology which fall within ITU-T's purview, the necessary standards are prepared on a collaborative basis with ISO and IEC.

NOTE

In this Recommendation, the expression "Administration" is used for conciseness to indicate both a telecommunication administration and a recognized operating agency.

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CORBA-based TMN services

CORRIGENDUM 1

1) **Clause 2, References**

Following item number 15 in the list of references, add the following reference:

[16] ITU-T Q.821.1 (2001), *CORBA-based TMN alarm surveillance service*.

2) **Subclause 6.2, Notification Service**

- a) *In the paragraph labelled **NOTIF-8**, delete the second, third and fifth sentences.*
- b) *Replace the paragraph labelled **NOTIF-9**, along with the indented quote immediately after it, with the following:*

(R) NOTIF-9 The Notification Service shall support a value for the *ConnectionReliability* property of *Persistent*. The Notification Service also shall support a value for the *EventReliability* property of *Persistent* (see Note 1) or *BestEffort* (see Note 2).

If the implementation of the Notification Service only supports *EventReliability = BestEffort*, then it must also support ITU-T Q.821.1 [16] alarm synchronization via the Enhanced Current Alarm Summary Control managed object.

NOTE 1 – When *ConnectionReliability = Persistent* and *EventReliability = Persistent*, the OMG Notification Service requirements state:

Each event is guaranteed to be delivered to all consumers registered to receive it at the time the event was delivered to the channel, within expiry limits. If the connection between the channel and a consumer is lost for any reason, the channel will persistently store any events destined for that consumer until each event time out due to expiry limits, or the consumer once again becomes available and the channel is subsequently able to deliver the events to all registered consumers. In addition, upon start from a failure the notification channel will automatically re-establish connections to all clients that were connected to it at the time the failure occurred. [4]

NOTE 2 – When *ConnectionReliability = Persistent* and *EventReliability = BestEffort*, the OMG Notification Service requirements state:

*The notification channel will maintain all information about its connected clients persistently, implying that connections will not be lost (logically) upon failure of the process within which the notification channel is executing. Any client which connects to the channel using persistent object references may fail, but unless these object references raise an **OBJECT_NOT_EXIST** exception, the channel will continue to retry using them. Clients which then re-instantiate objects with these references will (logically) reconnect to their associated proxies. The channel will not, however, store any buffered events persistently. The implication of this combination is that upon restart from a failure of the notification channel server process, the channel will automatically re-establish connections to each of its clients, but will not attempt to retransmit any events that had been buffered at the time the failure occurred. [4]*

- c) *Replace the paragraph labelled **NOTIF-10**, with the following paragraphs:*

(R) NOTIF-10 The Notification Service shall support the QoS parameter *OrderPolicy* value *FifoOrder*, i.e., the channel must support the delivery of events in the order of their arrival when this value is set to *FifoOrder*.

The Notification Service also may support the QoS parameter *OrderPolicy* value *PriorityOrder*, i.e., the channel supports the delivery of events in the order of their value of the priority field in the messages. *PriorityOrder* should be selected only if Correlated

Notifications are not in use and the priority in the messages is set by managed object instance (that is, all the notifications emitted by a managed object instance have the same priority).

NOTE – The restrictions on the use of priority order are needed to ensure that managing system can determine the state of managed systems from the order of the notifications that they emit.

- d) *Replace the paragraph labelled **NOTIF-11**, with the following paragraph:*

(R) NOTIF-11 When the OMG Notification Service is used as the Notification Service, the OMG Notification Service conformance statements shall be supported with the exception of the pull interface model.

3) Subclause 8.1.1, Conformance points

Under list item 2, add the following bullet item:

- support either:
 - Notification Service reliability QoS property *EventReliability* value of *Persistent*; or
 - Notification Service reliability QoS property *EventReliability* value of *BestEffort* and ITU-T Q.821.1 [16] Enhanced Current Alarm Summary Control managed object conformance requirement point.

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