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TESTING



## CMS Requirements Euro-PacketCable Qualification

--- Project Reference ---


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## 1 Introduction

This document specifies and clarifies the requirements for a CMS (Call Management Server) that is submitted for Euro-PacketCable 1.0 or Euro-PacketCable 1.5 certification.

This document is dynamic in nature and vendors should be checking for updates regularly.

Specific document version numbers are however not mentioned. The version numbers applicable for a specific Euro-PacketCable Certification Wave are published in the guidelines for that wave.

Chapter 2 explains the normative documents for Euro-PacketCable 1.0 certification, while chapter 3 describes them for Euro-PacketCable 1.5 certification.

Chapter 4 explains the requirements on call features (applicable to both 1.0 and 1.5 certification).

## 2 Normative documents for Euro-PacketCable 1.0

### 2.1 PKT-SP-EC-MGCP

This document defines the call signalling protocol. Some parts of appendix A of this document are redefined in [Euro-PacketCable L-Package Clarification]. If something is mentioned in both documents, it is the latter document that takes preference. The CMS must support the use of digit maps with a variable amount of numbers. The used CMS must support digit maps starting at a size 1 up to and including 12 digits.

### 2.2 PKT-SP-DQOS

This document defines the dynamic quality of service protocol.

### 2.3 PKT-SP-SEC

This document defines the security protocols. Specific requirements for Euro-PacketCable certificates are defined in [Euro-PacketCable Certificate Requirements].

### 2.4 PKT-SP-PROV

This document defines the provisioning interface.

### 2.5 PKT-SP-CODEC

This document defines the requirements for CODEC handling and support.

### 2.6 Euro-PacketCable Certificate Requirements

This document defines the requirements for Euro-PacketCable certificates.

### 2.7 Euro-PacketCable L-Package Clarification

This document defines the requirements for the L-package for Euro-PacketCable.



## 3 Normative documents for Euro-PacketCable 1.5

### 3.1 Configurations

To be able to test all Euro-PacketCable 1.5 functionality, it must be possible to fully configure the following features in the CMS, e.g. through the LocalConnectionOptions: T.38 fax relay, DMTM relay, VoIP metrics.

### 3.2 PKT-SP-NCS1.5

This document defines the call signalling protocol. Some parts of appendix A of this document are redefined in [Euro-PacketCable L-Package Clarification]. If something is mentioned in both documents, it is the latter document that takes preference. The CMS must support the use of digit maps with a variable amount of numbers. The used CMS must support digit maps starting at a size 1 up to and including 12 digits.

### 3.3 PKT-SP-DQOS1.5

This document defines the dynamic quality of service protocol.

### 3.4 PKT-SP-SEC1.5

This document defines the security protocols. Specific requirements for Euro-PacketCable certificates are defined in [Euro-PacketCable Certificate Requirements].

### 3.5 PKT-SP-PROV1.5

This document defines the provisioning interface.

### 3.6 PKT-SP-CODEC1.5

This document defines the requirements for CODEC handling and support.

### 3.7 Euro-PacketCable Certificate Requirements

This document defines the requirements for Euro-PacketCable certificates.

### 3.8 Euro-PacketCable L-Package Clarification

This document defines the requirements for the L-package for Euro-PacketCable.

## 4 Services and Capabilities

The following table provides a list of services or capabilities that **MUST** be supported by the CMS together with the status regarding part of the certification testing.



<b>Euro-PacketCable service</b>	<b>Part of certification testing ?</b>
Abbreviated dialling/speed dialling	Yes
Call waiting	Yes
Call hold	Yes
Message Waiting Indicator	No
Three-way calling	No
CFB	Yes
CFNR	Yes
CFU	Yes
CLIP	Yes
CLIR-permanent	Yes
CLIR-per call	Yes
ACR	No
MCID	No
Operator Assistance	No
Emergency Assistance calls	No
BAOC-NO	Yes
BINF-NO	Yes

#### 4.1 Clarification on services required for certification

##### Abbreviated dialling/speed dialling

This feature allows a user to dial specific numbers using a short code. The numbers that are dialled are selectable by the customer. The user must be able to program these numbers by using special codes. A CMS must support at least 10 programmable numbers. The service is activated by the operator on a per-line basis. No additional event messages need to be generated for this specific service.



### **Call waiting**

It must be possible to enable the call waiting service on a per-line basis. The mechanism to invoke the feature is vendor-dependent. Please note that it is not possible to differentiate between register-recall or hook-flash for an MTA, the only event that is defined in NCS is hook-flash. The CMS has no way to differentiate between a register recall or hook-flash. Event messaging must be as defined in the PacketCable specifications.

### **Call hold**

It must be possible to enable the call hold service on a per-line basis. The mechanism to invoke the feature is vendor-dependent. Please note that it is not possible to differentiate between register-recall or hook-flash for an MTA, the only event that is defined in NCS is hook-flash. The CMS has no way to differentiate between a register recall or hook-flash.

Event messaging must be as defined in the PacketCable specifications.

### **Call forwarding conditional on busy (CFB)**

This feature belongs to the class of call forwarding features as defined by PacketCable. The features can be activated (and forwarding number selected) or de-activated by an implementation dependent mechanism.

### **Call forwarding no reply (CFNR)**

This feature belongs to the class of call forwarding features as defined by PacketCable. The features can be activated (and forwarding number selected) or de-activated by an implementation dependent mechanism.

### **Call forwarding unconditional (CFU)**

This feature belongs to the class of call forwarding features as defined by PacketCable. The features can be activated (and forwarding number selected) or de-activated by an implementation dependent mechanism.

### **Calling Line Identity Presentation (CLIP)**

Calling Line Identity presentation can be done in two ways in Europe: either on-hook or off-hook. In the on-hook case the exact mechanism also varies. The identity of the caller is transmitted in an NCS-message, using the ci-code. The exact mechanism by which the caller-ID will be transmitted on the analogue POTS-line is defined in MIB-objects.

### **Calling Line Identity Restriction (CLIR) – permanent**

Calling Line Identity Restriction -permanent is a feature enabled by the operator to always withhold identity information from that subscriber. The identity is still presented to emergency and assistance centers.



### **Calling Line Identity Restriction (CLIR) – per call**

Calling Line Identity Restriction -per call is a feature enabled by a user to always withhold identity information from that subscriber. The feature is invoked by typing a short prefix to the dialled number. The prefix is implementation dependent. The identity is still presented to emergency and assistance centers.

### **Barring all outgoing calls by the network operator (BAOC-NO)**

It must be possible by the network operator to invoke this feature on a per-line basis. Emergency calls and operator assistance calls must still be possible.

### **Barring of information service numbers by network operator (BINF-NO)**

The network operator must be able to block specific numbers to be dialled. A CMS must support at least a list of 10 prefixes that can be blocked where each prefix can vary in length from 1 to 10 digits.

