International Telecommunication Union

ITU-T

TELECOMMUNICATION
STANDARDIZATION SECTOR
OF ITU

J.360

Amendment 2

(06/2008)

SERIES J: CABLE NETWORKS AND TRANSMISSION OF TELEVISION, SOUND PROGRAMME AND OTHER MULTIMEDIA SIGNALS

IPCablecom

IPCablecom2 architecture framework

Amendment 2 – Modification to provisioning

Recommendation ITU-T J.360 (2006) – Amendment 2

Recommendation ITU-T J.360

IPCablecom2 architecture framework

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Modification to provisioning

Summary

In order to use the proposed E-UE Provisioning Framework in Recommendation ITU-T J.369 *IPCablecom*2 *E-UE Provisioning Framework Specification* instead of the existing PACM method of Recommendation ITU-T J.364, the following modifications to Recommendation ITU-T J.360 are necessary.

Source

Amendment 2 to Recommendation ITU-T J.360 (2006) was approved on 13 June 2008 by ITU-T Study Group 9 (2005-2008) under Recommendation ITU-T A.8 procedure.

FOREWORD

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The World Telecommunication Standardization Assembly (WTSA), which meets every four years, establishes the topics for study by the ITU-T study groups which, in turn, produce Recommendations on these topics.

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.

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As of the date of approval of this Recommendation, ITU had not received notice of intellectual property, protected by patents, which may be required to implement this Recommendation. However, implementers are cautioned that this may not represent the latest information and are therefore strongly urged to consult the TSB patent database at http://www.itu.int/ITU-T/ipr/.

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1) Replace the existing clause 7.6 with the following

7.6 Provisioning

IPCablecom plans to support multiple provisioning frameworks to support embedded and standalone UE implementations. The current framework, termed E-UE provisioning, is aimed at embedded devices and reuses the currently deployed DHCP- and SNMP-based IPCablecom provisioning model. It relies on the DOCSIS specifications for the eCM provisioning, along with IPCablecom extensions. It also specifies the components, interfaces and requirements for eUE provisioning.

The E-UE provisioning framework addresses the following areas:

- Provisioning
  - Connectivity to the local IP network
  - P-CSCF discovery
  - Initialization prior to Configuration
- Configuration
  - Configuration Data Model
  - Configuration File Format and Delivery
- Management
  - Management Data model
  - Management and monitoring protocols

Figure 9 illustrates the E-UE provisioning reference points.

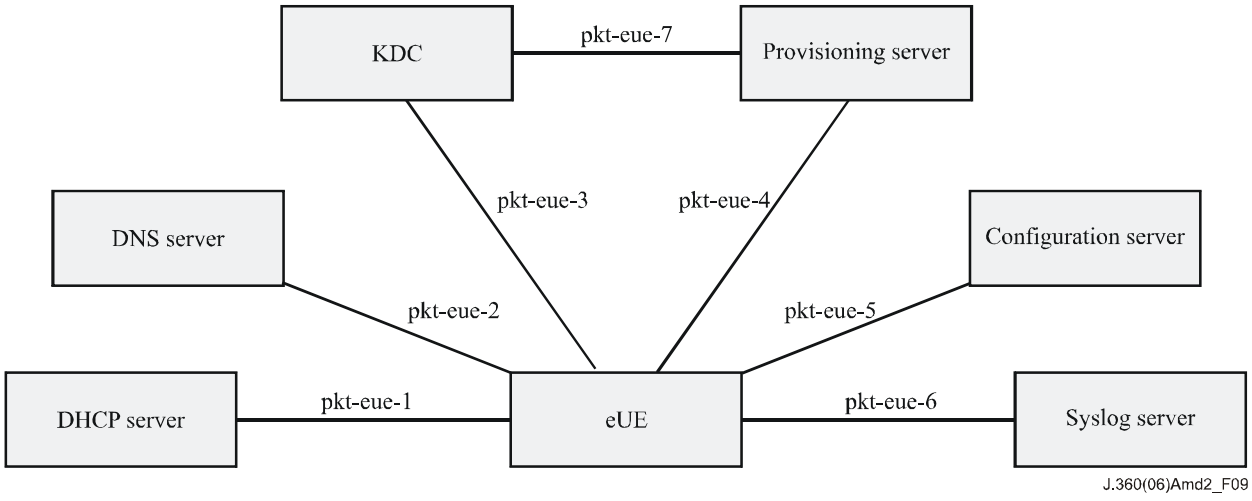

Figure 9 – Provisioning reference points

The reference points depicted in Figure 9 are described in Table 7.

Table 7 – Provisioning reference point descriptions

Reference Point	IPCablecom network components	Reference point description
pkt-eue-1	eUE – DHCP	Allows the eUE to obtain IP network participation information (e.g., IP address, DNS server addresses).
pkt-eue-2	eUE – DNS	Allows the eUE to resolve DNS names for location of network elements or routing of messages.
pkt-eue-3	eUE – KDC	Allows the eUE to authenticate itself to the Key Distribution Centre (KDC) using the Kerberos protocol.
pkt-eue-4	eUE – Provisioning Server	Allows the eUE to authenticate and exchange device capabilities with the Provisioning Server. The eUE also uses this interface to obtain configuration information, and to notify the provisioning server of the configuration retrieval status. The protocol used for authentication is Kerberos. The protocol for notification is SNMP.
pkt-eue-5	eUE – Configuration Server	Allows the eUE to obtain the Configuration File using TFTP or, optionally, HTTP.
pkt-eue-6	eUE – Syslog Server	Allows the eUE to report management events via Syslog.
pkt-eue-7	KDC – Provisioning Server	Allows the KDC to obtain information pertaining to the eUE, such as the provisioned IP address and FQDN (associated with the eUE's Mac Address).

Refer to the E-UE Provisioning Specification [ITU-T J.369] for more information.

2) Clause 2.2

Delete the following reference:

[ITU-T J.364] Recommendation ITU-T J.364 (2006), *IPCablecom2 provisioning, activation, configuration and management*.

Add the following references:

[ITU-T J.369] Recommendation ITU-T J.369 (2008), *IPCablecom2 E-UE provisioning framework specification*.

[ITU-T J.370] Recommendation ITU-T J.370 (2008), *IPCablecom2 embedded user equipment provisioning data model specification*.

3) Table 1

Delete the following from Table 1:

J.364	IPCablecom2 provisioning, activation, configuration, and management

Add the following to Table 1:

J.369	IPCablecom2 E-UE provisioning framework specification
J.370	IPCablecom2 embedded user equipment provisioning data model specification

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