International Telecommunication Union

ITU-T

TELECOMMUNICATION
STANDARDIZATION SECTOR
OF ITU

M.3017
Amendment 1
(04/2005)

SERIES M: TELECOMMUNICATION MANAGEMENT, INCLUDING TMN AND NETWORK MAINTENANCE

Telecommunications management network

Framework for the integrated management of hybrid circuit/packet networks

Amendment 1: Additional options

ITU-T Recommendation M.3017 (2003) – Amendment 1

ITU-T M-SERIES RECOMMENDATIONS

TELECOMMUNICATION MANAGEMENT, INCLUDING TMN AND NETWORK MAINTENANCE

For further details, please refer to the list of ITU-T Recommendations.

ITU-T Recommendation M.3017

**Framework for the integrated management
of hybrid circuit/packet networks**

Amendment 1

Additional options

Summary

This amendment to ITU-T Rec. M.3017 *Framework for the integrated management of hybrid circuit/packet networks* contains additional subclauses to clause 8.1.1 "Logical Architecture".

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.

NOTE

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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, implementors are cautioned that this may not represent the latest information and are therefore strongly urged to consult the TSB patent database.

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Amendment 1

Additional options

1)   Scope

This amendment contains extensions to the 2003 version of ITU-T Rec. M.3017. The logical architecture options 1 to 4 are described in 8.1.1. Besides these 4 options, this amendment gives 3 additional options (options 5, 6 and 7) for logical management architecture for HCPN.

2)   New clauses 8.1.1.5, 8.1.1.6 and 8.1.1.7

Add the following new clauses:

8.1.1.5   Descriptions for logical architecture option 5

In option 5 (see Figure 14), the Inf. EMS works as an integrated EMS to manage cNEs, iwNEs and pNEs directly. This could happen in a newly built hybrid network where an integrated EMS is required to manage all the NEs in the network. For an existing hybrid network, the functions of original Inf. EMS can be extended for the Inf. EMS to manage pNEs.

In this situation, pNEs provide interface 1B to Inf. EMS as well as to IP EMS. And as the iwNE has specialities of both cNE and pNE, it can provide both interface 1A and 1B.
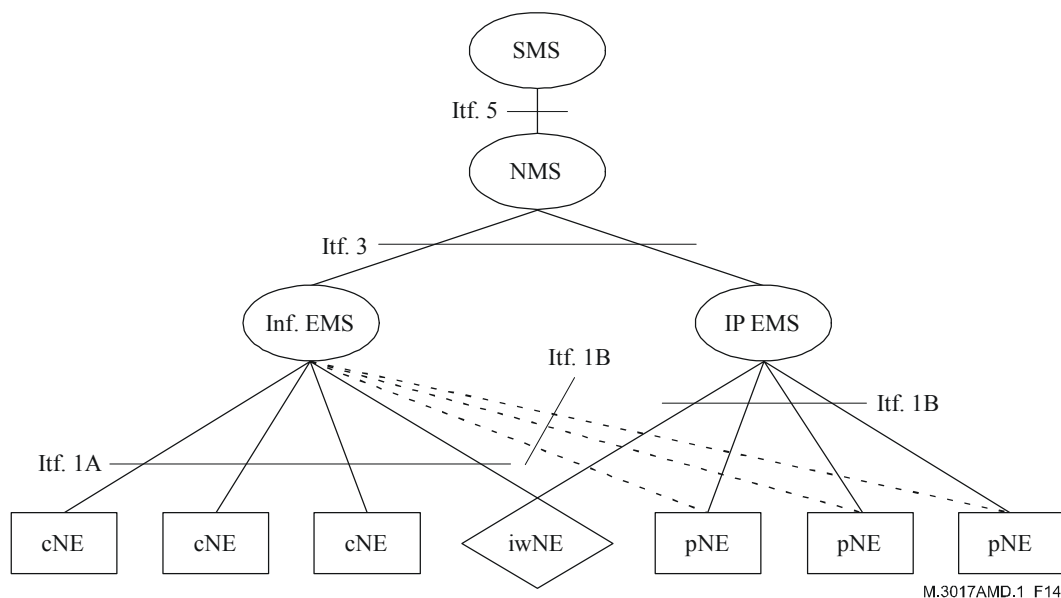
Figure 14/M.3017 – Integrated management of HCPNs option 5

8.1.1.6 Descriptions for logical architecture option 6

Option 6 (see Figure 15) is the same as option 5, except that in this case, the IP EMS works as an integrated EMS to manage the whole hybrid network. The cNEs are to provide interface 1A to both IP EMS and Inf. EMS. And the iwNE provides both interface 1A and 1B.
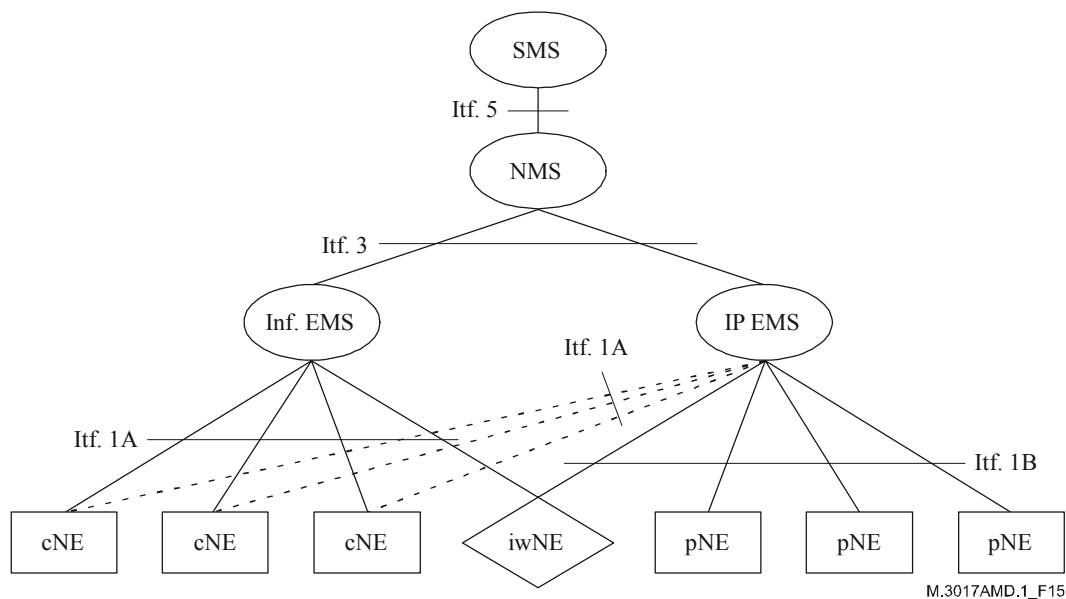
Figure 15/M.3017 – Integrated management of HCPNs option 6

8.1.1.7 Descriptions for logical architecture option 7

Option 7 (see Figure 16) is the same as option 4, except that in this case, the Inf. EMS accesses pNEs by interface 1B directly and works as an integrated EMS.
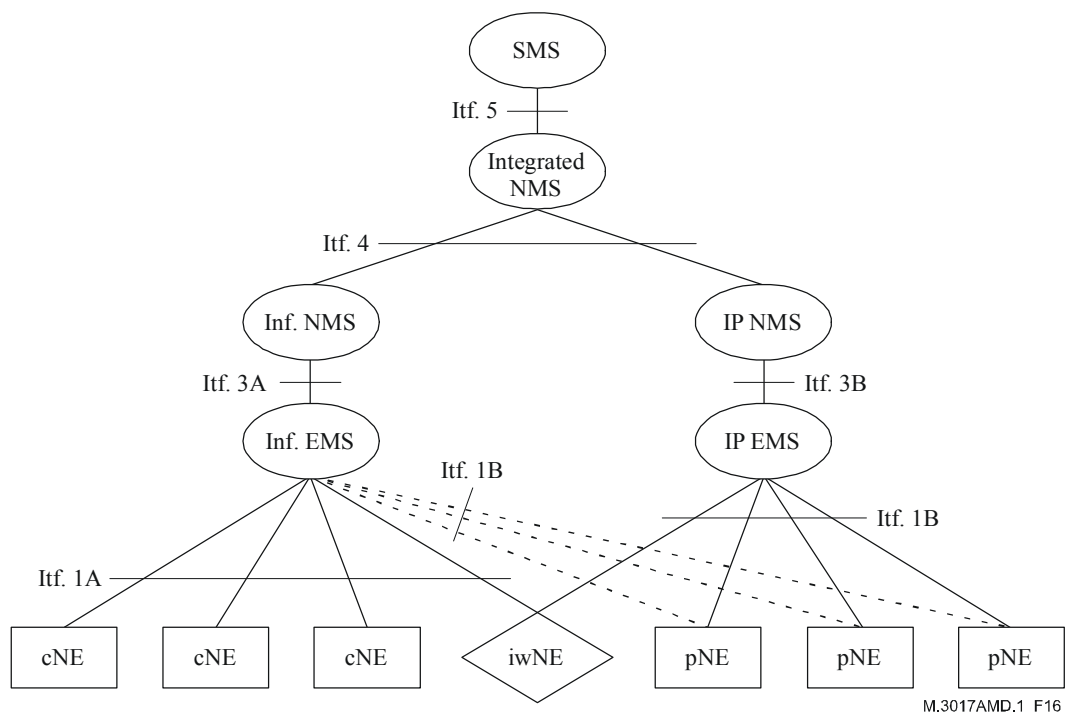
Figure 16/M.3017 – Integrated management of HCPNs option 7

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