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ITU-T

TELECOMMUNICATION
STANDARDIZATION SECTOR
OF ITU

Q.1220

(09/97)

SERIES Q: SWITCHING AND SIGNALLING
Intelligent Network

Q.1220-series Intelligent Network Capability Set 2 Recommendation structure

ITU-T Recommendation Q.1220

(Previously CCITT Recommendation)

ITU-T Q-SERIES RECOMMENDATIONS
SWITCHING AND SIGNALLING

SIGNALLING IN THE INTERNATIONAL MANUAL SERVICE	Q.1-Q.3
INTERNATIONAL AUTOMATIC AND SEMI-AUTOMATIC WORKING	Q.4-Q.59
FUNCTIONS AND INFORMATION FLOWS FOR SERVICES IN THE ISDN	Q.60-Q.99
CLAUSES APPLICABLE TO ITU-T STANDARD SYSTEMS	Q.100-Q.119
SPECIFICATIONS OF SIGNALLING SYSTEMS No. 4 AND No. 5	Q.120-Q.249
SPECIFICATIONS OF SIGNALLING SYSTEM No. 6	Q.250-Q.309
SPECIFICATIONS OF SIGNALLING SYSTEM R1	Q.310-Q.399
SPECIFICATIONS OF SIGNALLING SYSTEM R2	Q.400-Q.499
DIGITAL EXCHANGES	Q.500-Q.599
INTERWORKING OF SIGNALLING SYSTEMS	Q.600-Q.699
SPECIFICATIONS OF SIGNALLING SYSTEM No. 7	Q.700-Q.849
DIGITAL SUBSCRIBER SIGNALLING SYSTEM No. 1	Q.850-Q.999
PUBLIC LAND MOBILE NETWORK	Q.1000-Q.1099
INTERWORKING WITH SATELLITE MOBILE SYSTEMS	Q.1100-Q.1199
INTELLIGENT NETWORK	Q.1200-Q.1999
BROADBAND ISDN	Q.2000-Q.2999

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

ITU-T RECOMMENDATION Q.1220

Q.1220-SERIES INTELLIGENT NETWORK CAPABILITY SET 2 RECOMMENDATION STRUCTURE

Summary

This Recommendation explains the structure of the Q.122x (CS-2)-series IN Recommendations and provides their outlines.

Source

ITU-T Recommendation Q.1220 was prepared by ITU-T Study Group 11 (1997-2000) and was approved under the WTSC Resolution No. 1 procedure on the 12th of September 1997.

FOREWORD

ITU (International Telecommunication Union) is the United Nations Specialized Agency in the field of telecommunications. The ITU Telecommunication Standardization Sector (ITU-T) is a permanent organ of the ITU. The ITU-T is responsible for studying technical, operating and tariff questions and issuing Recommendations on them with a view to standardizing telecommunications on a worldwide basis.

The World Telecommunication Standardization Conference (WTSC), which meets every four years, establishes the topics for study by the ITU-T Study Groups which, in their turn, produce Recommendations on these topics.

The approval of Recommendations by the Members of the ITU-T is covered by the procedure laid down in WTSC Resolution No. 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, the 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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CONTENTS

	<i>Page</i>
0 Introduction	1
1 General Q.1200-series structure	1
2 Q.122x-series Intelligent Network Recommendations overview	1

Recommendation Q.1220

Q.1220-SERIES INTELLIGENT NETWORK CAPABILITY SET 2 RECOMMENDATION STRUCTURE

(Geneva, 1997)

0 Introduction

A block of one hundred numbers has been set aside in the Q series (Q.1200-Q.1299) for the development of Intelligent Network (IN) Recommendations. This Recommendation has been developed to organize the IN CS-2 Recommendations in a meaningful way in order to assist users in locating topics of interest. It provides a structural overview of the content of the Q.1220 series.

Terms and definitions pertinent to IN CS-2 are included in Recommendation Q.1290.

1 General Q.1200-series structure

Table 1 shows the overall Q.1200-series Intelligent Network Recommendation naming structure.

Table 1/Q.1220 – Recommendation framework structure

1200 – General	
1210 – CS-1	12x1 – Principles introduction
1220 – CS-2	12x2 – Service plane (not included for CS-1)
1230 – CS-3	12x3 – Global functional plane
1240 – CS-4	12x4 – Distributed functional plane
1250 – CS-5	12x5 – Physical plane
1260 – CS-6	12x6 – For future use
1270 – CS-7	12x7 – For future use
1280 – CS-8	12x8 – Interface Recommendation
1290 – Glossary	12x9 – Intelligent network user's guide
NOTE 1 – 1200 is assigned for the IN Recommendation framework structure.	
NOTE 2 – 1290 series has been set aside for the glossary.	

2 Q.122x-series Intelligent Network Recommendations overview

Q.1220 – Q.1220-series Intelligent Network Capability Set 2 Recommendation structure

0 Introduction

1 General Q.1200-series structure

2 Q.122x-series Intelligent Network Recommendations overview



Documents

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Recommendation Q.1220 (09/97)

1

Q.1221 – Introduction to Intelligent Network Capability Set 2

- 1 Introduction
- 2 Phased standardization
- 3 General description and scope of IN CS-2
 - 3.1 Criteria for IN CS-2
 - 3.2 Evolution of IN CS-2
- 4 Overview of IN CS-2 Recommendations
- 5 Service aspects
 - 5.1 Telecommunication services
 - 5.2 Service management services
 - 5.3 Service creation services
 - 5.4 Network support of IN CS-2 services
- 6 Network aspects
 - 6.1 Network functions
 - 6.2 Control architecture principles
 - 6.2.1 Service invocation and control
 - 6.2.2 End-user interactions
 - 6.2.3 Service management
 - 6.3 Feature interactions
 - 6.4 Consistency among IN CS-2 supported service features
- 7 Functional relationships and interfaces
 - 7.1 Functional relationships and control classes
 - 7.1.1 Bearer connection control
 - 7.1.2 Non-IN call control
 - 7.1.3 IN service control
 - 7.1.4 Service management control
 - 7.1.5 Non-IN call unrelated control
 - 7.2 Key functions and interfaces
 - 7.2.1 Single point/multiple points of control
 - 7.2.2 Single-ended/multi-ended calls
 - 7.2.3 Mid-call interruption
 - 7.2.4 Call party handling
 - 7.2.5 Enhanced SRF
 - 7.2.6 Call unrelated user interaction
 - 7.2.7 Out-channel call related user interaction
 - 7.2.8 Service/feature interaction (service processing)
 - 7.2.9 Internetworking
 - 7.2.10 Security
 - 7.2.11 IN-TMN
 - 7.2.12 Service management
 - 7.2.13 Service creation
 - 7.2.14 Personal mobility

Appendix I – IN CS-2 benchmark services and features

- I.1 General
- I.2 Definitions
 - I.2.1 Telecommunication services
 - I.2.2 Service management services
 - I.2.3 Service creation services
- I.3 Telecommunication services
 - I.3.1 General
 - I.3.2 Definitions
 - I.3.3 Mobility service features (UPT, FPLMTS)
 - I.3.4 Other services
 - I.3.5 Other service features

- I.4 Service management services
 - I.4.1 General
 - I.4.2 Definition
 - I.4.3 Service management service/service feature
- I.5 Service creation services
 - I.5.1 General
 - I.5.2 Service specification services
 - I.5.3 Service development services
 - I.5.4 Service verification services
 - I.5.5 Service deployment services
 - I.5.6 Service creation service management services

Q.1222 – Service plane for Intelligent Network Capability Set 2

- 1 General
- 2 Service plane architecture
 - 2.1 General
 - 2.2 Characterization of services and service capability requirement
 - 2.2.1 Service and service feature requirements
 - 2.3 Service and service feature interaction
 - 2.3.1 Types of features considered for interactions
 - 2.3.2 Mechanisms for handling feature interactions
 - 2.4 Service plane modelling

Q.1223 – Global functional plane for Intelligent Network Capability Set 2

- 1 General
- 2 Scope of IN global functional plane for capability set 2
- 3 References
- 4 Global functional plane modelling for capability set 2
 - 4.1 Elements on the global functional plane
 - 4.1.1 Modelling requirements
 - 4.1.2 Modelling elements
 - 4.2 The basic call process
 - 4.3 The capability view
 - 4.3.1 Definition
 - 4.3.2 Service independent building blocks
 - 4.3.3 Methods to describe SIBs
 - 4.4 Interaction management
 - 4.4.1 Interaction between SIBs
 - 4.4.2 Interaction handling methods in the SIB definition phase
 - 4.5 The service view
 - 4.5.1 Definition
 - 4.5.2 Global service logic
 - 4.5.3 SIB operations
 - 4.5.4 Characteristics of an HLSIB
 - 4.5.5 Characteristics of a service process
 - 4.5.6 Communication between service processes
 - 4.5.7 Domains
 - 4.6 Terminology
- 5 IN CS-2 Service Independent Building Blocks (SIBs)
 - 5.1 ALGORITHM
 - 5.2 AUTHENTICATE
 - 5.3 CHARGE
 - 5.4 COMPARE
 - 5.5 DISTRIBUTION
 - 5.6 END
 - 5.7 INITIATE SERVICE PROCESS
 - 5.8 JOIN