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Technical Specification

**Digital cellular telecommunications system (Phase 2+);
Universal Mobile Telecommunications System (UMTS);
Telecommunication management;
Configuration Management (CM);
Bulk CM Integration Reference Point (IRP):
Common Management Information Protocol (CMIP)
Solution Set (SS)
(3GPP TS 32.614 version 6.1.0 Release 6)**



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Contents

Intellectual Property Rights	2
Foreword.....	2
Foreword.....	4
Introduction	4
1 Scope	5
2 References	5
3 Definitions, symbols and abbreviations	6
3.1 Definitions	6
3.2 Abbreviations	6
4 Basic aspects	6
4.1 Explanation.....	6
4.2 Mapping	7
4.2.1 Mapping of Operations	7
4.2.2 Mapping of Operation Parameters	7
4.2.2.1 Mapping of Parameters of the Operation startSession	7
4.2.2.2 Mapping of Parameters of the Operation endSession	7
4.2.2.3 Mapping of Parameters of the Operation upload	8
4.2.2.4 Mapping of Parameters of the Operation download.....	8
4.2.2.5 Mapping of Parameters of the Operation activate	8
4.2.2.6 Mapping of Parameters of the Operation fallback	8
4.2.2.7 Mapping of Parameters of the Operation abortSessionOperation	8
4.2.2.8 Mapping of Parameters of the Operation getSessionIds	9
4.2.2.9 Mapping of Parameters of the Operation getSessionStatus.....	9
4.2.2.10 Mapping of Parameters of the Operation getSessionLog	9
4.2.2.11 Mapping of Parameters of the Operation getBulkCmIRPVersion	9
4.2.2.12 Mapping of Parameters of the Operation validate.....	9
4.2.2.13 Mapping of Parameters of the Operation preactivate.....	10
4.2.3 Mapping of Notifications	10
4.2.4 Mapping of Notification Parameters/Attributes.....	10
4.2.4.1 Mapping of Parameters/Attributes of the Notification sessionStateChanged	10
4.2.4.2 Mapping of Parameters/Attributes of the Notification getSessionLogEnded	11
5 GDMO Definitions.....	12
5.1 Actions	12
5.1.1 startSession	(M)12
5.1.2 endSession	(M)12
5.1.3 upload	(M)13
5.1.4 download	(M)14
5.1.5 activate	(M)14
5.1.6 fallback	(M)15
5.1.7 abortSessionOperation	(M)16
5.1.8 getSessionIds	(M)16
5.1.9 getSessionStatus	(M)17
5.1.10 getSessionLog	(M)17
5.1.11 getBulkCmIRPVersion	(M)18
5.1.12 validate.....	(M)18
5.1.13 preactivate.....	(M)19
5.2 Notifications	20
5.2.1 sessionStateChanged (M)	20
5.2.2 getSessionLogEnded (M)	21
5.3 Attributes.....	21
5.3.1 sessionId	21
5.3.2 sessionState.....	22
5.3.3 sessionLogStatus.....	22
6 ASN.1 definitions.....	23
Annex A (informative): Change history	28
History	29

Foreword

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Introduction

The present document is part of a TS-family covering the 3rd Generation Partnership Project; Technical Specification Group Services and System Aspects; Telecommunication management; as identified below:

- 32.611: "Configuration Management (CM); Bulk CM Integration Reference Point (IRP): Requirements".
- 32.612: "Configuration Management (CM); Bulk CM Integration Reference Point (IRP): Information Service (IS)".
- 32.613: "Configuration Management (CM); Bulk CM Integration Reference Point (IRP): Common Object Request Broker Architecture (CORBA) Solution Set (SS)".
- 32.614: "Configuration Management (CM); Bulk CM Integration Reference Point (IRP): Common Management Information Protocol (CMIP) Solution Set (SS)".**
- 32.615: "Configuration Management (CM); Bulk CM Integration Reference Point (IRP): eXtensible Markup Language (XML) file format definition".

Configuration Management (CM), in general, provides the operator with the ability to assure correct and effective operation of the 3G network as it evolves. CM actions have the objective to control and monitor the actual configuration on the Network Element (NEs) and Network Resources (NRs), and they may be initiated by the operator or functions in the Operations Systems (OSs) or NEs.

CM actions may be requested as part of an implementation programme (e.g. additions and deletions), as part of an optimisation programme (e.g. modifications), and to maintain the overall Quality of Service (QoS). The CM actions are initiated either as a single action on a NE of the 3G network or as part of a complex procedure involving actions on many NEs.

1 Scope

The present document specifies the Common Management Information Protocol (CMIP) Solution Set (SS) for the Bulk CM Integration Reference Point (IRP): Information Service defined in TS 32.612 [4]. In detail:

- Clause 4 contains an introduction to some concepts that are the base for some specific aspects of the CMIP interfaces.
- Clause 5 contains the GDMO definitions for the Alarm Management over the CMIP interfaces

Clause 6 contains the ASN.1 definitions supporting the GDMO definitions provided in clause 5.

This Solution Set specification is related to 3GPP TS 32.612 V6.2.X.

2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.
- For a specific reference, subsequent revisions do not apply.
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- [1] 3GPP TS 32.101: "Telecommunication management; Principles and high level requirements".
- [2] 3GPP TS 32.102: "Telecommunication management; Architecture".
- [3] 3GPP TS 32.304: "Telecommunication management; Configuration Management (CM); Notification Integration Reference Point (IRP): Common Management Information Protocol (CMIP) Solution Set (SS)".
- [4] 3GPP TS 32.612: "Telecommunication management; Configuration Management (CM); Bulk CM Integration Reference Point (IRP): Information Service (IS)".
- [5] ITU-T Recommendation X.710 (1991): "Common Management Information Service Definition for CCITT Applications".
- [6] ITU-T Recommendation X.721 (02/92): "Information Technology - Open Systems Interconnection – Structure of Management Information: Definition of Management Information".
- [7] ITU-T Recommendation X.730 (01/92): "Information Technology - Open Systems Interconnection – Systems Management: Object Management Function".
- [8] ITU-T Recommendation X.733 (02/92): "Information Technology - Open Systems Interconnection - Alarm Reporting Function".
- [9] ITU-T Recommendation M.3100 (07/95): "Maintenance Telecommunications Management Network – Generic Network Information Model".
- [10] 3GPP TS 32.600: "Telecommunication management; Configuration Management (CM); Concept and high-level requirements".
- [11] 3GPP TS 32.602: "Telecommunication management; Configuration Management (CM); Basic CM Integration Reference Point (IRP): Information Service (SS)".