

Glossary of Terms and Acronyms

MTAS

TERMINOLOGY

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1 Introduction

This document is a summary of known abbreviations and terminology used by other documents to describe the MTAS Customer Product Information (CPI).

The defined terms, definitions, acronyms, and abbreviations are sorted in alphabetical order. Some abbreviations can have more than one definition.

General telecommunication vocabularies are described at the following URL:

— <http://www.its.bldrdoc.gov/fs-1037/>

Other sources for glossary are available at the following URLs:

— <http://www.ietf.org/>

— <http://webapp.etsi.org/Teddi/>

— <http://www.openmobilealliance.org>

— <http://www.omg.org>

Scope

This document does not cover the following:

- General abbreviations, acronyms, and terminology understood as well-known concepts defined by external glossaries. For example, general IP technology acronyms and terminology or general telecommunication acronyms and terminology, unless the MTAS narrows the scope or changes the meaning.
- Protocol details. The reader is recommended to read the protocol itself for further details.

Target Groups

This document is intended for anyone who wants more knowledge about terms and definitions used in the CPI, describing the MTAS node.

1.1 Related Information

For information on trademarks, typographic conventions, definition, and explanation of abbreviations and terminology, refer to [Trademark Information](#).





2 Terms and Definitions

The following sections define the terms and definitions used in the MTAS CPI.

2.1

A-E

ATCF	Access Transfer Control Function. Node that acts as a B2BUA between a circuit switched network and the IMS core network. The ATCF coordinate the access transfer of a session between access and circuit switched networks.
ATGW	Access Transfer Gateway. Node that handles the media transport on the boundary between the circuit switched and IMS core networks as defined by 3GPP architecture and procedures. The ATCF controls the ATGW using H.248.
ATU-STI	Access Transfer Update - Session Transfer Identifier. Routable URI (SIP URI or E.164 number) pointing to SCC AS. It is a statically configured URI in SCC AS node.
Action	An executable operation triggered by setting attributes on an MO. Each action is defined in the related MOC description.
Activation	An action taken by a user or by a service provider to change the state of a service from inactive to active.
Alarm	<p>Raised by the system to indicate an unexpected behavior of malfunction requiring corrective action by the user. An alarm has at least state raise (initial detection of the fault) or clear (when the fault no longer exists). An alarm can also change state regarding perceived severity. Alarms are also called “stateful” alarms to emphasize that they have a state. An active alarm is an alarm that has been raised but not cleared.</p> <p>All alarm state changes including cleared state are recorded in the Alarm Log. Each alarm has an alarm Operating Instructions document. It describes the possible fault reasons, fault locations, and the potential service impact. It also describes the procedure to execute to eliminate the problem and eventually clear the alarm.</p>



Alert	A stateless alarm, that is, an alarm that can only have the raised state. As an alarm, an alert has an associated Operating Instructions document and is reported in real time as an SNMP notification. Alerts are recorded in the Alert Log but are not exposed in any list over the NBI.
Alias Role	Identity of a role, which has meaning to the user. An alias role is an alias for one or more real roles. The definition of alias role allows the user to use names of roles that the user is used to. Also, the same alias can be used for several real roles. The latter can be useful when different types of MEs have defined real roles with different names, but which requires the same (or similar) authority.
Application	A service enabler deployed by service providers, manufacturers, or users. Individual applications are often enablers for a wide range of services. Defined in 3GPP TR 21.905.
API	Application Programming Interface. A formalized set of software calls and routines that can be referenced by an application program to access supporting network services.
Attribute	Represents the configuration. The read-only attributes in the MOs describe configuration state and operational values. The writable attributes control the operation and configuration for the particular network resource. Each attribute is defined in the related MOC description.
AVP	Attribute-Value Pair. A data representation in an application. Diameter AVPs carry specific authentication, authorization, and accounting information, security information as well as configuration details for the request and the reply.
Authentication	The process of verifying the identity of an entity.
Authorization	The granting of permission based on authenticated identification.
BE	Best Effort QoS. A QoS traffic class which provides minimal performance guarantees, allowing an unspecified variance in the measured performance criteria.
CNIP	Calling Name Identity Presentation. The Calling Name Identity Presentation service alters the originating identity presented in a communication based on the preferences of the participants and information retrieved from an external node outside IMS.



CSCF	Call Session Control Function. Several roles of SIP servers or proxies that are collectively called Call Session Control Function (CSCF). These are used to process SIP signalling packets in the IMS. See Proxy Call Session Control Function, Interrogating Call Session Control Function, and Serving Call Session Control Function for details regarding the different CSCF types within IMS.
Cardinality	<p>The number of elements in a set. Two sets with the same number of elements have the same cardinality.</p> <p>Can exist in the MOM between MOs in parent-child relationships, and in associations between MOs.</p>
Charging	The process of gathering Charging input by serving elements, transferring it to Charging Control, processing of this information, by Charging Control and distributing the result of this processing to involved parties.
Complex activation/deactivation	A state of a service that can be changed by a user using Ut interface.
CPI	Customer Product Information. Documentation for an ME, delivered in the Active Library Explorer.
CpuSteal	The time spent by vCPU waiting while hypervisor cannot allocate the real CPU.
CSR	Customer Service Request. Used during the trouble reporting process to describe the problems identified.
CAI3G	Customer Administration Interface Third Generation. An Ericsson-defined SOAP-based protocol for provisioning.
Data Check	The interrogation function that compares data input by a user during an interrogation procedure with the data stored about a service.
Data Model	A mapping of the contents of an Information Model into a form that is specific to a particular type of data store or repository. A data model is basically the rendering of an information model according to a specific set of mechanisms for representing, organizing, storing, and handling data. In contrast to an Information Model, a Data Model includes implementation (and protocol-) specific details. That is, rules that explain how to map MOs onto lower-level protocol constructs.
Deactivation	An action taken by a user (or by a service provider) to change the status of a service from active to inactive.



Derived Data Type

Data type enhanced with extra restrictions and properties. Derived string data types contain, for example, length and content constraints. Derived integer data types contain extra range constraints. Each derived data type is defined in the related MOC description.

Dh

The name of the interface reference point between the SLF and the SIP AS.

DN

Distinguished Name. The name of an object or an object tree that is shared between the system and the Management System. The DN is in 3GPP format (from root to leaf). The DN is used to identify an MO uniquely in the system. It gives the path of the MO in the tree of objects. The system uses 3GPP formatted DNs where each relative DN part consists of the MOC name equal the MO identity. If the key attribute name is not equal to the MOC name plus ID, then the key attribute name is also appended to the MOC name separated by a dot.

ECIM

Ericsson Common Information Model. Controls the MOM structure. The ECIM is based on the CIM standard.

ECLI

Ericsson Command-Line Interface. A terminal-based command-line interface that is used to monitor and manage the ME. The ECLI is based on industry de facto standard patterns.

Embedded tel URI

Embedded tel URI implies the tel URI <local-number> along with the phone-context or tel URI <global-number> parts are embedded between the “.”, and “@” characters in a SIP URI.

Enumeration

Integer-name pairs defining a fixed set of named values for an attribute, return value, or action parameter. Each enumeration is defined in the MOM.

Erasure

An action taken by a user (or by a service provider) to delete data stored for a particular service by a previous registration.

Ericsson NETCONF Interface

A machine to machine interface for configuration management of the ME using the NETCONF protocol over the Secure Shell.

Event

Occurrence of significance to users, the MEs under surveillance and network management specifications. Events do not have states.



2.2

Erasure	An action taken by a user (or by a service provider) to delete data stored for a particular service by a previous registration.
XML	Extensible Markup Language. Markup language that describes data formats and the information model. XML represents structured data in textual form, and is similar in concept to HTML.
F-K	
GP	Granularity Period. The time between the initiation of two successive gatherings of measurement data.
GSM Compatible SSF	The GSM Compatible SSF feature introduces an integrated SSF function supporting CAPv2 protocol. This function makes it possible to support legacy IN services already available in existing service layer when introducing Voice over LTE with MMTel.
HA	High Availability. A system or component that is continuously operational for a desirably long length of time. Availability is measured relative to 100% operational status.
Heartbeats	Used by a Management System to monitor the interface over which the alarms or alerts are to be sent. Heartbeats are needed because a management system cannot assume that a “silent” ME behaves properly. The Heartbeat event is reported as an SNMP notification at regular intervals.
HSS	Home Subscriber Server. An IMS database that contains the subscription-related information (subscriber profiles), performs authentication and authorization of the user, and can provide information about the location of the subscriber and IP information.
ICS Enhanced MSC	An MSC with extra ICS functionality such as interworking functionality between CS and IMS for an ICS user the CS user-network signaling interworking with IMS/SIP signaling for bearer control.
ICS UE	The VoLTE UE with extra ICS-specific functionality such as service control communication with SCC AS (over Gm or I1), executes ADS for originating sessions, assists SCC AS in T-ADS.



ICS User	An IMS subscriber that uses IMS Centralized Services as service domain regardless of the access type, CS, or PS.
ICS	IMS Common System. A common base for both wireline and wireless applications on which operators can introduce their IMS services.
ISC	IMS Service Control Interface. The ISC interface is able to support subscription of event notifications between the AS and the S-CSCF to allow the AS to be notified of the implicit registered Public User Identities, registration state, and UE capabilities. Defined in 3GPP TS 23.228.
IMS Voice over PS support	The PS access network supports bidirectional speech media.
Information Model	An abstraction and representation of the entities (or MOs) in a managed environment, their properties, attributes, and operations, as well as the way that they relate to each other. It is independent of any specific repository, software use, protocol, or platform.
Interrogation	An action taken by a user to request information from a service provider about a particular service. The interrogation function includes Status Check, Data Request, and Data Check.
Invocation	An action taken by a user, on a per call basis, to start (for example, temporarily activate) a supplementary service.
L-P	
Load Balancing	A feature that balances the load over a cluster of processors. It exposes only one IP address for the control plane independent of the number of processors configured to handle traffic to or from that network.
LOTIC	Linux Open Telecom Cluster. Provides a Linux cluster with High Availability characteristics. The system is an adapted and preconfigured version of the SUSE Linux Enterprise Server (SLES) distribution with added cluster level tooling and services.
Man–Machine Interface	The mechanism by which an operator may communicate with one or more Network Elements.

**Managed Object Management**

A folder in the Active Library Explorer that contains the MOM.

Marshalling

Marshalling is the process of transforming the memory representation of an object to a data format suitable for storage or transmission (similar to serialization). It is typically used when data must be moved between different parts of a computer program or from one program to another.

ME

Managed Element. An entity that supports the management functionality needed for a specific resource that can be one or more of: network components, host systems, or applications. Managed objects are conceptual views of said resources that are being managed or exist to support management such as event logging. Therefore, a Managed Object is an abstraction of such a resource that represents its properties as seen by (and for the purposed of) management. An MO can also represent a relationship between a resource or a set of resources. A Managed Object is defined by the attributes visible at its boundary, the management operations which can be applied to it, the behavior exhibited by it in response to management operations or in reaction to other types of stimuli. These can be either internal (for example, threshold crossing) or external (for example, interaction with other objects), or notifications emitted by it.

MIB

Management Information Base. A set of managed objects in a management domain, together with their attributes, constitutes that management MIB of the domain. MIB is also used in SNMP for trap and counter-definition.

MIM

Management Information Model. Describes Management Object Classes (MOC), their associations, attributes, and operations.

MO

Managed Object. A software object that encapsulates the manageable characteristics and behavior of a particular hardware or software resource. An MO is an instance of a MOC. An MO normally has attributes that provide information used to characterize the MOs that belong to the MOC. An MO can also have actions that allow the user to perform operations on the underlying implementation.

MOC

Managed Object Class. A description of all the common characteristics for several Managed Objects, such as their attributes, operations, notifications, and behaviors.



MOM	Managed Object Model. A structured collection of configuration information that defines the O&M capability on an ME. The MOM is defined as a set of MOCs. The MOCs contain attributes representing the configuration that can be performed by the user, and actions representing the operations that can be started by the user. The MOM is a static blueprint for the creation of the actual object model.
MMTel	Multimedia Telephony, one of the IMS Service formats that provide the user with services belonging to the telephony service format.
MMTel session	A Multimedia Telephony SIP session.
NBI	Northbound Interface. Machine-machine interface between an element management system and a network management system.
NeLS	Network License Server. A high-performance carrier class centralized network license control server. NeLS offers unique features such as shared capacity across the network for a more dynamic capacity distribution. NeLS receives license requests from NeLS client applications and provides feedback to NeLS clients on the status of their licenses. NeLS does not provide any license enforcement functionality. NeLS clients are responsible to act upon the licensing information provided. NeLS supports the Ericsson License Manager (ELIM) license key format
NETCONF	Network Configuration. A network management protocol developed in the IETF. It uses an XML-based data encoding for the configuration data as well as the protocol messages. The NETCONF protocol operations are realized on top of a simple Remote Procedure Call (RPC) layer.
NFS	Network File System. A Network File System is any computer file system that supports sharing of files, printers and other resources as persistent storage over a computer network.
Notification	A general term for a message that carries an alarm or alert instance.
offline charging	3GPP term: A charging mechanism where charging information does not affect, in real time, the service rendered.
online charging	Charging mechanism where charging information can affect, in real-time, the service rendered and therefore a direct interaction of the charging mechanisms with the session/service control is required.



2.4	Originating session	A session handled on behalf of an originating user.
	Or-Vnfm	Reference point between Network Functions Virtualization Orchestrator (NFVO) and Virtual Network Function Manager (VNFM).
	Or-Vi	Reference point between NFVO and Virtual Infrastructure Manager (VIM).
	PAI	P-Asserted-Identity. A header field that contains a URI and an optional display-name. The header field is used among trusted SIP entities (typically intermediaries) to carry the identity of the user sending a SIP message as it was verified by authentication.
	PM	Performance Management. A functional area for collection and configuration of performance data.
	P-Header	Private Header
	PUI	Public User Identity. An identity used within the home domain of an IMS network to uniquely identify a user profile. It is the address used for establishing a session to the user. The PUI has the form of either a SIP URI or a tel URI. Defined in 3GPP TS 23.003.
	Q-T	
	Registration	An action taken by a user (or by a service provider) to store specific data necessary to enable subsequent operation of a service.
	Rf	Interface used in 3GPP to send off-line charging information to the Charging Data Function (CDF).
	Ro	The name of the interface reference point between the SIP AS and the OCF.
	Role	Equivalent to the user occupation within an organization, for example, System Administrator. A user can have one or more roles.
	Rule	Authorization rules specify the permissions to a set of resources within the ME. The authorization rules are grouped into roles. Authorization rules are defined locally on the ME.



SDP	Software Delivery Package. An archive file (TAR file) with RPM® software packages and a file describing the Ericsson product data. A software item can be an SDP. A software item represents any kind of Ericsson software product that is present on the ME.
Separator	A one-character string, the star (*) symbol, used within a command dialogue control action to separate two-digit strings. The digit strings can be a service code or a supplementary information string.
SCC AS	Service Centralization and Continuity Application Server. The Service Centralization and Continuity Application Server is an application server in the home IMS network of the served UE supporting at least one of the SRVCC, SDS, or T-ADS functions.
Service Code	A two or three digit string used within a command dialogue control action to identify a supplementary service.
Service Code Prefix	A one or two character string preceding the service code and indicating which set of functions is to be applied to a service, within a command dialogue control action.
SDS	Service Domain Selection. The Service Domain Selection function selects IMS as service domain for VoLTE UE originating at 2G/3G CS access.
Serving Element	The role played by a system interacting with Charging control for Charging.
Service Suffix	A one-character string (usually a square symbol #) used within a command dialogue control action to define the end of the command string.
Session Charging	Method performing subsequent Charging requests during delivery of a service. Charging of a voice call is a typical example for use of session Charging.
SDP	Session Description Protocol. Intended for describing multimedia sessions for the purposes of session announcement, session invitation, and other forms of multimedia session initiation. Defined in IETF RFC 2327.
SF	System Functions. Common system functions and resources for the management entity such as Fault Management (Fm), Performance Management (Pm), and Security Management (SecM). <i>SystemFunctions</i> is one of the first-level branches in the MOM.



Sh	The name of the interface reference point between the HSS and the SIP AS.
SIP	Session Initiation Protocol. A signaling protocol for creating, modifying, and terminating sessions with one or more participants. Defined in IETF RFC 3261.
SLA	Service Level Agreement. A contract between a network service provider and a customer that specifies what services the network service provider furnishes.
STN-SR	<p>Session Transfer Number - Single Radio. A routable URI of E.164 format pointing to SCC AS using SRVCC R9 or to the visited ATCF using SRVCC R10.</p> <p>The following is a description of the SRVCC R9 and SRVCC R10 respectively:</p> <ul style="list-style-type: none"> — R9 <p>The STN-SR pointing to SCC AS is statically associated with the C-MSISDN of the subscriber.</p> — R10 <p>The STN-SR pointing to the visited ATCF is dynamically associated with the C-MSISDN of the subscriber during the registration procedures.</p>
SIP URI	A SIP address.
SRVCC	Single Radio Voice Call Continuity. The SRVCC function allows voice call continuity between IMS over PS access and CS access for calls that are anchored in IMS when the UE can transmit/receive on only one of those access networks at a given time.
Status Check	The interrogation function that enables a user to request information on the existing status of a designated service.
SCTP	Stream Control Transmission Protocol. A reliable transport protocol operating on top of IP. It provides acknowledged error free non-duplicated transfer of data. SCTP also detects data corruption, loss of data, and duplication of data by using checksums and sequence numbers. Defined in IETF RFC 2960.
Struct	Handles structured attributes that can contain an arbitrary number of elements of the same or different type. Each struct is defined in the related MOC description.



SUM	A subtype of performance measurements status inspection.
Supplementary Service Functions	The collection of functions that are commonly applied in supplementary services including; Activation, Deactivation, Disabling, Erasure, Interrogation, Invocation, Provision, Registration, and Withdrawal.
Syntax	The particular sequence of service prefix, service code, separator, supplementary information, service suffix, and so on, specified for a command dialogue information string.
SysM	System Management. Represents the system-level functions such as time handling and version handling. <i>SysM</i> is a system function.
Tel URI	A telephone address.
T-ADS	Terminating Access Domain Selection. The Terminating Access Domain Selection (T-ADS) function is executed to select the terminating access domain for the VoLTE UE (CS or PS). The access domain is selected based on registered contacts data, on access type for ongoing VoLTE session and most recent VoLTE session, and on the T-ADS information (if the current location access network supports IMS Voice over PS) obtained from HSS.
Terminating session	A session handled on behalf of a terminating user.
Terminating unregistered session	A session handled on behalf of a terminating unregistered user.
Registration	An action taken by a user (or by a service provider) to store specific data necessary to enable subsequent operation of a service.
Rf	The name of the interface reference point between the SIP AS and the CDF.
Ro	The name of the interface reference point between the SIP AS and the OCF.
Role	Equivalent to the user occupation within an organization, for example, System Administrator. A user can have one or more roles.



Rule	Authorization rules specify the permissions to a set of resources within the ME. The authorization rules are grouped into roles. Authorization rules are defined locally on the ME.
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SCC AS	Service Centralization and Continuity Application Server. The Service Centralization and Continuity Application Server is an application server in the home IMS network of the served UE supporting at least one of the SRVCC, SDS, or T-ADS functions.
Service Code	A two or three digit string used within a command dialogue control action to identify a supplementary service.
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Status Check	The interrogation function that enables a user to request information on the existing status of a designated service.
SCTP	Stream Control Transmission Protocol. A reliable transport protocol operating on top of IP. It provides acknowledged error free non-duplicated transfer of data. SCTP also detects data corruption, loss of data, and duplication of data by using checksums and sequence numbers. Defined in IETF RFC 2960.
Struct	Handles structured attributes that can contain an arbitrary number of elements of the same or different type. Each struct is defined in the related MOC description.



SUM	A subtype of performance measurements status inspection.
Supplementary Service Functions	The collection of functions that are commonly applied in supplementary services including: Activation, Deactivation, Disabling, Erasure, Interrogation, Invocation, Provision, Registration, and Withdrawal.
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T-ADS	Terminating Access Domain Selection. The Terminating Access Domain Selection (T-ADS) function is executed to select the terminating access domain for the VoLTE UE (CS or PS). The access domain is selected based on registered contacts data, on access type for ongoing VoLTE session and most recent VoLTE session, and on the T-ADS information (if the current location access network supports IMS Voice over PS) obtained from HSS.
Terminating session	A session handled on behalf of a terminating user.
Terminating unregistered session	A session handled on behalf of a terminating unregistered user.
Transaction	Configuration changes are applied through atomic transactions. Thus, it is ensured that all or none of the operations are executed.
Transport Management	Transport-related functions and resources, for example, load sharing between all configured and available blades in the cluster, and distribution of incoming traffic to the system. <i>Transport</i> is one of the first-level branches in the MOM.
Trap	An unacknowledged SNMP message that carries a notification or heartbeat.



2.5

U-Z

Unmarshalling

Unmarshalling is the process of transforming a data format representation of an object to its memory representation (similar to deserialization). It is typically used when data must be moved between different parts of a computer program or from one program to another.

URI

Uniform Resource Identifier. A URI is a compact string of characters for identifying an abstract or physical resource. Defined in IETF RFC 2396.

Upgrade

A product or product version that is created to provide an increased level of functionality or performance to a user. Upgrade is also the operation to replace a previous product or product version with a new product or product version that provides an increased level of functionality.

UA

User Agent. An endpoint in a SIP-based network.

UDP

User Datagram Protocol. Part of the TCP/IP protocol suite, UDP is a standard, connectionless, host-to-host protocol that is used over packet-switched computer communications networks. UDP is typically used for real-time applications. Defined in IETF RFC 768.

Ut

An integration reference point between the client and XDMS.

Vi-Vnfm

Reference point between Virtual Infrastructure Manager (VIM) and VNFM.

VoLTE UE

Voice over LTE capable UE (according to 3GPP TS 22.261) with IMS as service domain. LTE supports 3GPP accesses and an Evolved Packet Core (EPC) interfacing the IMS core.

XDMS

XML Document Management Server. A server that stores and manages XML documents on behalf of network applications. The XML documents often contain configuration data for application services, for example, MMTel subscriber configuration data for MTAS. An XDMS can store documents for multiple applications. Within each application, there are documents stored for each user. Each user can have multiple documents for a particular application.



Glossary

2PTY

Two Parties

3DES

Triple Data Encryption Standard

3G

Third Generation

3GPP

3rd Generation Partnership Project

3GPP2

3rd Generation Partnership Project 2

3PCC

Third-Party Call Control

3PP

Third Party Products

3PTY

Three Party Service

AAA

Authentication, Authorization and Accounting

AbDial

Abbreviated Dialing

ABNF

Augmented Backus-Naur Form

AC

Area Code

Authentication Center

ACA

Accounting Control Answer

ACR

Anonymous Communication Rejection |
Accounting-Request | Accounting Control
Request | Apply Charging Report

ADS

Access Domain Selection

AES

Advanced Encryption Standard

AGCF

Access Gateway Control Function

ALB

Abstract Load Balancer

AMF

Availability Management Framework

AMPS

Advanced Mobile Phone System

AN

Abbreviated Number

ANDUB

Approaching Network Determined User Busy

ANLYZD

Analyzed Information INVOKE

ANSI

American National Standards Institute

ANSI-41

ANSI standard 41

AoC

Advice of Charge

AoC-D

Advice of Charge During

AoC-E

Advice of Charge End

AoC-S

Advice of Charge Start

AOR

Address Of Record



API
Application Programming Interface

AppTrace
Application Trace

ARP
Address Resolution Protocol

AS
Application Server

ASCII
American Standard Code for Information Interchange

ATCF
Access Transfer Control Function

ATGW
Access Transfer Gateway

ATM
Asynchronous Transfer Mode

ATU
Access Transfer Update

ATU-STI
Access Transfer Update - Session Transfer Identification

AT&T
American Telephone & Telegraph

AuC
Additional User Category

AUID
Application Unique Identifier

AV
Audio Video

AVC
Attribute Value Change

AVP
Attribute-Value Pair | Audio-Visual Profile

AVPF
Audio-Visual Profile with Feedback

B2BUA
Back-to-Back User Agent

BB
Broad Band

BCI
Backward Call Indicator

BCSM
Basic Call State Model

BE
Best Effort QoS

BFD
Bidirectional Forwarding Detection

BFCP
Binary Floor Control Protocol

BICC
Bearer-Independent Call Control

BL
Business Licence

BP
Barring Program

BRM
Back up and Restore Management

BS
Base Station

BSP
Blade Server Platform

BSS
Business Support System

CCITT
The International Telegraph and Telephone Committee

CCMP
Counter Mode Cipher Block Chaining Message Authentication Protocol

CDCLSv
Crash Dump and Console log Collection Service

**C-MSISDN**

Correlation Mobile Subscriber Integrated Services Digital Network

CA

Capsule Abortion | Charge Area

CAC

Call Admission Control | Carrier Access Code

CAT

Customized Alerting Tones

CAT-S

Customized Alerting Tones Server

CAI3G

Customer Administration Interface Third Generation

CAMEL

Customized Applications for Mobile Networks Enhanced Logic

CAP

CAMEL Application Part

CARI

Carrier Information

CAT

Customized Alerting Tones

CAT-S

Customized Alerting Tones Server

CB

Communication Barring

CC

Call Completion | Cumulative Counter | Communication Completion | Conference Creator | Country Code

CC-AC

Country Code and Area Code

CCA

Credit Control Answer

CCBS

Communication Completion Busy Subscriber

CCF

Charging Collection Function

CCFH

Credit Control Failure Handling

CCNL

Call Completion Not Logged-in

CCNR

Communication Completion by No Reply

CCR

Credit Control Request

CD

Call Deflection | Communication Deflection

CDar

Communication Deflection Alerting

CDwr

Communication Deflection Immediate

CDF

Charging Data Function

CDIV

Communication Diversion

CDIVAll

Communication Diversion All

CDIVN

Communication Diversion Notification

CDMA

Code Division Multiple Access

CDCLSV

Crash Dump and Console log Collection

CDP

Charge Determination Point

CDR

Charging Data Record

CDS

Communication Details Server

CDSv

The Container Distribution Service



CDTF
Communication Details Transfer Function

CEA
Capabilities-Exchange-Answer

CEPT
European Conference of Postal and
Telecommunications Administrations

CER
Capabilities-Exchange-Request

CertM
Certificate Management

CFB
Communication Forwarding on Busy

CFBNRVM
Communication Forwarding on No Reply or
Forwarding on Busy to Voice Mail

CFBVM
Communication Forwarding on Busy to Voice
Mail

CFCOND
Communication Forwarding Conditional

CFNL
Communication Forwarding Not Logged in

CFNR
Communication Forwarding on No Reply

CFNRc
Communication Forwarding Not Reachable

CFNRVM
Communication Forwarding on No Reply to
Voice Mail

CFP
Communication Forwarding on Presence

CFU
Communication Forwarding Unconditional

CFUVM
Communication Forwarding Unconditional to
Voice Mail

CFx
Any of CFB, CFU, and CFNR

CGI
Cell Global Identification

CI
Charge Information

CIC
Carrier Identification Code

CIEC
Chosen Interexchange Carrier

CIM
Common Information Model

CIRp
Call Information Report

CIT
Charge Information Type

CLB
Converged SIP/HTTP Load Balancer

CLI
Command-Line Interface

CLM
Cluster Membership

CLUSv
The Command Line Utility Service

CM
Configuration Management

CMCO
Common Component

CMP
Certificate Management Protocol

CMPv2
Certificate Management Protocol version 2

CN
Common Name

CNIP
Calling Name Identity Presentation



CNS
Calling Name Server | Conference Notification Service

CON
Connect

COOB
Call Out Of the Blue

cp
common policy

CP
Conference Participant | Correction Package

CP Manager
Common Parts Manager

CPIM
Common Presence and Instant Messaging (see RFC 3862)

CPE
Customer-Premises Equipment

CPI
Customer Product Information

CPS
Carrier Pre-Select

CPSRn
Carrier Pre-Select Rn

CPU
Central Processing Unit

CR
Change Request

CS
Charging Server | Carrier Select | Capability Set | Circuit Switched

CSA
Communication Setup Announcement

CSC
Carrier Select Code | Customer Service Center

CSCF
Call Session Control Function

CSI
CAMEL Subscription Information

CSR
Customer Service Request

CSRN
CS domain Routing Number

CSRn
Carrier Select Rn

CUA
Capabilities Update Answer

CUG
Closed User Group

CUR
Capabilities Update Request

CW
Communication Waiting

CWA
Communication Waiting Active

CWU
Communication Waiting Used

DAI
Dial Around Indicator

DBL
Dynamic Black List

DBN
Database Network

DBS
Database Service

DCN
Data Communication Network

DER
Discrete Event Registration | Distinguished Encoding Rules

**DES**

Data Encryption Standard

DN

Directory Number (of a called party) |
Distinguished Name

DNDCF

Communication Forwarding Do Not Disturb

DNDCFVM

Communication Forwarding Do Not Disturb to
Voice Mail

DNDCB

Do Not Disturb Communication Barring

DNM

Dialed Number Mapping

DNS

Domain Name Server/System

DP

Detection Point

DPA

Disconnect Peer Answer

DPC

Destination Point Code

DPR

Disconnect Peer Request

DPT

Debug Pooled Object Type

DR

Distinctive Ring

DRBD

Distributed Replicated Block Device

DSA

Dialed String Analysis

DSCP

Differentiated Services Code Point

DSL

Digital Subscriber Line

DST

Daylight Saving Time

DTLS

Datagram Transport Layer Security

DTM

Dial Tone Management

DTMF

Dual-Tone Multifrequency

DU

Distribution Unit

DUT

Distribution Unit Type

DWA

Device Watchdog Answer

DWR

Device-Watchdog-Request

ECDSA

Elliptic Curve Digital Signature Algorithm

ECF

Event Charging Function

ECIM

Ericsson Common Information Model

ECGI

E-UTRAN Cell Global Identifier

ECLI

Ericsson Command-Line Interface

ECM

Ericsson Cloud Manager

ECT

Explicit Communication Transfer

ECMP

Equal-Cost Multipath

EIA

Electronic Industries Association

EIN

Ericsson Infotech AB



EIR
Equipment Identity Register

EJB
Enterprise JavaBeans

EMA
Ericsson Multi Activation

E-MRFC
External MRFC

E-MSC
ICS Enhanced MSC

ENM
Ericsson Network Manager

ENUM
E.164 Number Mapping

EO
Ericsson Orchestrator

EP
Emergency Package

EPC
Evolved Packet Core

EPS
Evolved Packet System

ERB
Event Report BCSM

ERSIP
Evolved Realm Specific Internet Protocol

ESME
Emergency Services Message Entity

ESN
Electronic Serial Number

ESP
Emergency Services Protocol

ESPOSREQ
Emergency Services Position Request INVOKE

ETSI
European Telecommunications Standards Institute

eVIP
Evolved Virtual Internet Protocol

FA
Flexible Alerting

FAC
Feature Access Code | Feature Activation Code

FC
Function Code

FCD
Flexible Communication Distribution

FCDDP
Flexible Communication Distributions Divert Primary

FCH
Flexible Charging

FCI
Furnish Charging Information | Forward Call Indicator

FEATREQ
FeatureRequest INVOKE

featreq
FeatureRequest RETURN RESULT

FE
front end

FEE
front-end element

FIFO
First In, First Out

FM
Fault Management

FMC
Fixed and Mobile Convergence

**FQDN**

Fully Qualified Domain Name

FS

File Server

FSFS

Flexible Service Format Selection

FTP

File Transfer Protocol

FTU

File Transfer Utility

FUA

Final Unit Action

FUI

Final Unit Indication

GED

Generic Ericsson Device

GCAC

Group Call Admission Control

GETS

Government Emergency Telecommunications Service

GM

Gateway Model

GMSC

Gateway Mobile Switching Center

GP

Granularity Period

GT

Global Title

GRUU

Globally Routable User Agent URI

GSM

Global System for Mobile Communications

gsmSCF

GSM Service Control Function

gsmSSF

GSM Service Switching Function

GSN

Global Subscriber Number

GSU

Granted Service Units

GUI

Graphical User Interface

HA

High Availability

HCM

Health Check Management

HF

Human Factors

HI

History

HLR

Home Location Register

HO

Handover

HOT

Heat Orchestration Template

HSPA

High-Speed Packet Access

HSS

Home Subscriber Server

HTML

Hypertext Markup Language

HTTP

Hypertext Transfer Protocol

HTTPS

Hypertext Transfer Protocol Secure

HW

Hardware

ICMP

Internet Control Message Protocol



I-CSCF
Interrogating–CSCF

IAD
Integrated Access Device

IANA
Internet Assigned Numbers Authority

IBCF
Interconnection Border Control Function

ICB
Incoming Communication Barring

ICBS
Interconnection Charge Billing System

ICID
IMS Charging Identifier

ICN
Incoming Call Number | Incoming Communication Number

ICS
IMS Common System | IMS Centralized Services

ICSI
IMS Communication Service Identifier

ID
Incoming Dialog

IDP
International Dialing Prefix | Initial Detection Point

IdPres
Identity Presentation

IEC
Immediate Event Charging | Interexchange Carrier

IEEE
Institute of Electrical and Electronics Engineers

IETF
Internet Engineering Task Force

iFC
Initial Filter Criteria

IKE
Internet Key Exchange

IMM
Information Model Management

IMRN
IP Multimedia Routing Number

IMS
IP Multimedia Subsystem

IMSI
International Mobile Subscriber Identity

IMPU
IP Multimedia Public Identity

IN
Intelligent Network

INAP
Intelligent Network Application Protocol

I/O
Input/Output

IOI
Inter-Operator Identifier

IP
Internet Protocol

IPsec
Internet Protocol Security

IPv4
IP version 4

IPv6
IP version 6

IPVS
Internet Protocol Virtual Server

IRI
Internationalized Resource Identifier

IRP
Integration Reference Point



IRS

Implicit Registration Set

ISC

IMS Service Control | IP Multimedia Service Control | IMS Centralized Services

ISDN

Integrated Services Digital Network

ISO

International Organization for Standardization

ISP

In-Service Performance

ISUP

ISDN User Part

ITU

International Telecommunication Union

ITU-T

International Telecommunication Union
Telecommunication Standardization Sector

IVR

Interactive Voice Recognition

IW

Interworking

IWF

Interworking Function

JC

Japanese Charging

KPI

Key Performance Indicator

LAI

Location Area Identity

LAN

Local Area Network

LBE

Load Balancer Element

LCT

Local Craft Terminal

LDAP

Lightweight Directory Access Protocol

LDE

Linux Distribution Extensions

LEM

Lightweight Entity Management

LPM

Lightweight Process Management

LSB

Least Significant Bit

LDIF

LDAP Data Interchange Format

LDN

Local Distinguished Name

LM

License Management

LEAs

Law Enforcement Agency

LKF

License Key File

LM

License Management

LOTG

Linux Open Telecom Cluster

LRBT

Local Ring Back Tone

LSDP

The SDP of the local descriptor of a termination

LTE

Long Term Evolution

MC

Message Center

MDN

Mobile Directory Number

MDS

Message Distribution Service



MIN
Mobile Identification Number

MP
Mobile Positioning

MPC
Mobile Positioning Center

MS
Mobile Station

MSB
Most Significant Bit

MSINACT
MSInactive INVOKE

msinact
MSInactive RETURN RESULT

MTP
Message Transfer Part

MAC
Media Access Control

MAP
Mobile Application Part

MCC
Mobile Country Code

MCID
Malicious Communication Identification

MCR
Malicious Communication Rejection

MD5
Message-Digest algorithm 5

MDF
Model Delivery Function

ME
Managed Element

MG
Media Gateway

MGC
Media Gateway Controller

MGCF
Media Gateway Control Function

MIB
Management Information Base

MID
Message Identifier

MIM
Management Information Model

MIME
Multipurpose Internet Mail Extensions

MMAS
Multimedia Application Server

MME
Mobility Management Entity

MMI
Man–Machine Interface

MMTel
Multimedia Telephony

MNC
Mobile Network Code

MO
Managed Object | Mobile Originated Call

MOC
Managed Object Class

MOI
Managed Object Instance

MOId
Managed Object Identifier

MOM
Managed Object Model

MRF
Media Resource Function

MRFC
Media Resource Function Controller

MRFP
Media Resource Function Processor



MS

Mobile Station

MSC

Mobile Switching Center

MSISDN

Mobile Subscriber ISDN Number

MSRN

Mobile Station Roaming Number

MSRP

Message Session Relay Protocol

MSS

Mobile Softswitch

MT

Mobile Terminated call

MTP

Message Transfer Part

MW

Middleware

MWI NA

MWI NA Message Waiting Indicator Not Applicable

N

Number (a one-digit number)

NA

Network Announcement

NAM

Numeric Assignment Module

NAI

Network Access Identifier

N-CSI

Network CAMEL Subscription Information

NANP

North American Numbering Plan

NAT

Network Address Translation

NBI

Northbound Interface

NCC

NorthboundCallControl

ND

New Destination

NDP

National Dialing Prefix

NDUB

Network Determined User Busy

NE

Network Element

NeLS

Network License Server

NETCONF

Network Configuration

NFS

Network File System

NFVI

Network Functions Virtualization Infrastructure

NFVO

Network Functions Virtualization Orchestrator

NMS

Network Management System

NN

Number Normalization

NM

Network Management | Node Management

NMS

Network Management System

NNI

Node Network Interface

NOC

Network Operations Center

NP

Number Portability



NPA Numbering Plan Areas	OCOBP Operator Controlled Outgoing Barring Program
NPIN New PIN	ocp OMA common policy
NPLI Network Provided Location Information	OCS Online Charging System
NRBT Network Ring Back Tone	OCT Operator Controlled Transfer
NSN National Significant Number	OD Outgoing Dialog
NTP Network Time Protocol	OID Object Identifier
NTT Nippon Telegraph and Telephone Corporation	OIP Originating Identity Presentation
NWAS Network Application Server	OIR Originating Identity Restriction
O&M Operation and Maintenance	OLP Overload Protection
O-CSI Originating CAMEL Subscription Information	OMA Open Mobile Alliance
O-IOI Originating Inter-Operator Identifier	OPI Operating Instruction
O-SDS Originating SDS	OPIN Old PIN
OAM Operations, Administration, and Maintenance	OrigTerm Originating and Terminating
OAUC Originating Additional User Category	OS Operating System
OCB Outgoing Communication Barring Originating Communication Barring	OSI Open Systems Interconnection
OCF Online Charging Function	OSN Operator Service Number
OCNIP CNIP on originating MMTel AS	OSPF Open Shortest Path First
	OSS Operations Support System



OTP
Operating Telephony Provider

OVA
Open Virtualized Architecture

OVP
Open Virtualization Format

P-CSCF
Proxy Call Session Control Function

PNNI
P-Private-Network-Indication

PA
Presence Agent

PAI
P-Asserted-Identity

PAM
Pluggable Authentication Module

PANI
P-Access-Network-Info

PBX
Private Branch Exchange

PC
Personal Computer | Probable Cause

PCFA
P-Charging-Function-Addresses

PCV
P-Charging-Vector

PDF
Probability Density Function

PDE
Position Determining Entity

PDU
Protocol Data Unit

PEM
Privacy Enhanced Mail

PGM
Presence, Group and Data Management

PIDF
Presence Information Data Format (RFC 3863)

PIN
Personal Identification Number

PKCS
Public-Key Cryptography Standards

PKI
Public-Key Infrastructure

PL
Payload

PM
Performance Management | Performance Measurement

PMTU
Path Maximum Transmission Unit

POI
Point of Interface

POSIX
Portable Operating System Interface

POT
Persistent Object Type

PRACK
Provisional Response Acknowledgment

PS
Packet Switched | Presence Server | Previous Store | Protocol Specification

PSI
Public Service Identity

PSK
Preshared Key

PSTN
Public Switched Telephone Network

PUI
Public User Identity

PUID
Passport Unique ID



PXE Preboot Execution Environment	regnot RegistrationNotification RETURN RESULT
QoS Quality of Service	RFC Request for Comment
RA Registration Authority	Rn Routing number
RAM Random-Access Memory	ROP Report Output Period
RAN Radio Access Network	RPC Remote Procedure Call
RAT Radio Access Technology	RPH Resource-Priority Header
RBAC Role-Based Access Control	RPID Rich Presence Extensions to the Presence Information Data Format (RFC 4480)
RBT Ring Back Tone	RPM RedHat Package Manager
RBS Radio Base Station	RRT Realm Routing Table
RCA Root Cause Analysis	RSA Public-key cryptography based on Rivest, Shamir, and Adleman
RDN Relative Distinguished Name	SDP The SDP of the remote descriptor of a termination
RDP Runtime Delivery Package	RSG Remote Support Gateway
REDDIR RedirectionDirective INVOKE	RSIP Realm Specific Internet Protocol
reddir RedirectionDirective RETURN RESULT	ROUTEREQ RoutingRequest INVOKE
REDREQ RedirectionRequest INVOKE	routerreq RoutingRequest RETURN RESULT
REGCANC RegistrationCancellation INVOKE	RT Ringing Time
regcanc RegistrationCancellation RETURN RESULT	
REGNOT RegistrationNotification INVOKE	



RTP
Real-Time Transport Protocol (RFC 3550)

RTT
Round-Trip Time

RTTI
Real-time Transfer of Tariff Information

S-CSCF
Serving Call Session Control Function

SA
Support Agent

SAAL
Signalling ATM Adaptation Layer

SAF
Service Availability Forum

SBG
Session Border Gateway

SC
Service Code | Service Continuity

SCC
Sentinel® Cloud Connect

SCEP
Simple Certificate Enrollment Protocol

SCF
Service Control Function

SCP
Secure Copy | Service Control Point

SCPC
Service Control Point Carrier

SCTP
Stream Control Transmission Protocol

SCUR
Session based Charging with Unit Reservations

SD
Subscriber Data

SDP
Session Description Protocol | Software Delivery Package

SDS
Service Domain Selection

SE
Security Element

SecM
Security Management

SELinux
Security-Enhanced Linux

SF
System Functions

SFTP
Secure File Transfer Protocol

SFW
Service Frame Work

SHA
Secure Hash Algorithm

SI
Supplementary Information

SIP
Session Initiation Protocol

SLA
Service Level Agreement

SLF
Subscriber Location Function

SM
Security Management

SN
Subscriber Number

SND
Short Number Dialing

SNM
Sub-Network Manager



SNMP
Simple Network Management Protocol

SoC
Statement of Compliance

SOAP
Simple Object Access Protocol

SPM
Service Process Manager

SR
Separator

SRF
Specialized Resource Function

SRV
Service (Record)

SRVCC
Single Radio Voice Call Continuity

SS
Supplementary Service

SS7
Signalling System No.7

SSC
Supplementary Service Code

SSCF
Service Specific Coordination Functions

SSCOP
Service Specific Connection Oriented Protocol

SSF
Service Switching Function

SSH
Secure Shell

SSL
Secure Socket Layer

SSP
Service Switching Point

ST
Sip Trunking

ST AS
Sip Trunking Application Server

STI
Session Transfer Identifier

STN
Session Transfer Number

STN-SR
Session Transfer Number for SRVCC

STOD
Session Transfer to Own Device

SeeLib
SAF Execution Environment Library

SeePort
SAF Execution Environment Port

SCCP
Signaling Connection Control Part

SCSv
The Statistics Collection Service

SM
Short Message

SMD
ShortMessageDelivery

SMDPP
ShortMessageDeliveryPointToPoint INVOKE

smdpp
ShortMessageDeliveryPointToPoint RETURN
RESULT

SME
Short Message Entity

SMSNOT
SMSNotification INVOKE

smsnot
SMSNotification RETURN RESULT

SMSREQ
SMSRequest INVOKE



smsreq
SMSRequest RETURN RESULT

SPC
Signaling Point Code

SSA
Subsystem Allowed

SSD
Shared Secret Data

SSN
Subsystem Number

SSP
Subsystem Prohibited

sub-MO
sub-Managed Object

SU
Service Unit

SW
Software

SwIM
Software Inventory Management

SwM
Software Management

SX
Service Suffix

SysM
System Management

T-ADS
Terminating Access Domain Selection

T-CSI
Terminating CAMEL Subscription Information

T-IOI
Terminating Inter-Operator Identifier

T-SDS
Terminating SDS

TAC
Tracking Area Code

TAUC
Terminating Additional User Category

TBAC
Target-Based Access Control

TC
Textual Convention

TCA
Terminating Charge Area

TDMA
Time Division Multiple Access

TIA
Telecommunications Industry Association

TIPC
Transparent Inter Process Communication

TCAP
Terminating CAMEL Application Part

TCP
Transmission Control Protocol

TD
Transparent Data

TCP
Transmission Control Protocol

TDM
Time Division Multiplexing

TDMA
Time Division Multiple Access

TIP
Terminating Identification Presentation

TIR
Terminating Identification Restriction

TISPAN
Telecoms & Internet converged Services &
Protocols for Advanced Networks

TLD
Top-Level Domain



TLDcc Top-Level Domain Country Code	isposdir Intersystem Position Directive RETURN
TLEC Terminating Local Exchange Carrier	ISPOSREQ Intersystem Position Request INVOKE
TLS Transport Layer Security	isposreq Intersystem Position Request RETURN
TQT Time Quota Threshold	ITU International Telecommunication Union
TP Traffic Processor	OAA Over the Air Activation
TPS Transactions Per Seconds	OAP Over the Air Programming
TR Trouble Report	OATS Over the Air Teleservice
TS Technical Specification	OPC Originating Point Code
TTC Telecommunication Technology Committee	OPTS Over the Air Programming
TTCN Testing and Test Control Notation	ORREQ Origination Request INVOKE
IE Information Element	orreq Origination Request RETURN RESULT
IMSI International Mobile Station Identity	OSI Open Systems Interconnection
IS-136 Interim Standard 136	OTAF Over the Air Activation Function.
IS-725-A Interim Standard 725	OTA Over the Air Programming
ISPOSCANC Intersystem Position Cancellation INVOKE	OTAPA Over the Air Parameter Administration.
isposcanc Intersystem Position Cancellation RETURN RESULT	OTASP Over the Air Service Provisioning.
ISPOSDIR Intersystem Position Directive INVOKE	OTASPREQ OTASPRequest INVOKE
	otaspreq OTASPRequest RETURN RESULT



UA

User Agent

UA-A

User Agent (Calling)

UA-B

User Agent (Called)

UAC

User Agent Client

UAS

User Agent Server

UAT

Upgrade Automation Tool

UC

Use Case

UC

Unified Communication

UCAC

User Call Admission Control

UCF

Upgrade Control File

UDUB

User Determined User Busy

UDP

User Datagram Protocol

UE

User Endpoint | User Entity | User Equipment

ULN

Unique Logical Name

UML

Unified Modeling Language

UMTS

Universal Mobile Communication System

UP

Upgrade Package | Upper Part

URI

Uniform Resource Identifier

URL

Uniform Resource Locator

URN

Uniform Resource Name

USU

Used Service Units

UTC

Coordinated Universal Time

UTF

Unicode Transformation Format

UUID

Universally Unique Identifier

UUIR

User Unrelated ISC Routing

UTC

Universal Time coordinate

VCC

Voice Call Continuity

VCPU

Virtual CPU

vDicos

Virtual Dicos

VIP

Virtual IP Address

VLAN

Virtual Local Area Network

VIM

Virtual Infrastructure Manager

VLR

Visitor Location Register

vMSC

Visited MSC

VM

Virtual Machine | Voice Mail

VNF

Virtual Network Function

**VNFM**

Virtual Network Function Manager

VoIP

Voice over IP

VoLTE

Voice over LTE

VoPS

Voice over PS

VPN

Virtual Private Network

VRRP

Virtual Router Redundancy Protocol

VT

Validity Time

VTP

Virtual Telephony Provider

wIMPU

Wildcarded Public User Identity

WSDL

Web Services Description Language

XCAP

XML Configuration Access Protocol

XCAP Client

An HTTP client that understands how to follow the naming and validation constraints defined in the XCAP draft.

XDMS

XML Document Management Server

XDP

XDMS Data Protocol

XUI

XCAP User Identifier

XML

Extensible Markup Language

XSD

XML Schema Definition

XUI

XCAP User Identity

YPS

Yellow Pages Server