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**SIP Transfer of IP Multimedia Service Tariff Information;
Protocol specification
(3GPP TS 29.658 version 12.0.0 Release 12)**



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ETSI

650 Route des Lucioles
F-06921 Sophia Antipolis Cedex - FRANCE

Tel.: +33 4 92 94 42 00 Fax: +33 4 93 65 47 16

Siret N° 348 623 562 00017 - NAF 742 C
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Contents

Intellectual Property Rights	2
Foreword.....	2
Modal verbs terminology.....	2
Foreword.....	6
1 Scope	7
2 References	7
3 Definitions and abbreviations.....	8
3.1 Definitions	8
3.2 Abbreviations	9
4 SIP Transfer of Charging Information	9
4.1 Description	9
4.1.1 General description	9
4.1.2 Network provider option.....	10
4.2 Coding requirements	10
4.3 Functional requirements	10
4.3.1 Overall requirements.....	10
4.3.2 Procedures at a Charge Determination Point	11
4.3.2.0 General	11
4.3.2.1 Procedures during communication set-up	11
4.3.2.1.1 Tariff indication	11
4.3.2.1.2 Communication attempt charge	11
4.3.2.1.3 Communication set-up charge	12
4.3.2.1.4 Communication charge.....	12
4.3.2.2 Procedures after start of charging.....	13
4.3.2.2.1 Change current tariff.....	13
4.3.2.2.2 Add-on charge	13
4.3.2.3 Subsequent Tariff indications.....	13
4.3.3 Procedures at the charge generation point	13
4.3.3.0 General	13
4.3.3.1 Procedures during communication set-up	13
4.3.3.1.1 Tariff indication	13
4.3.3.1.2 Communication attempt charge	14
4.3.3.1.3 Communication setup charge	14
4.3.3.1.4 Communication charge.....	14
4.3.3.2 Procedures after start of charge.....	15
4.3.3.2.1 Change current tariff.....	15
4.3.3.2.2 Add-on Charge	16
4.3.3.3 Subsequent Tariff indications.....	16
4.3.4 Handling of identifiers	16
4.4 Signalling requirements.....	17
4.4.1 General.....	17
4.4.2 Procedures during communication set-up.....	17
4.4.2.1 Procedures at the CDP	17
4.4.3 Procedures after start of charging	17
4.4.3.1 Procedures at the CDP	17
4.5 Interaction with other services.....	17
4.6 Interactions with other networks	17
4.6.1 Interaction with PSTN/ISDN	17
4.6.2 Interaction with PSTN/ISDN Emulation	20
4.6.3 Interaction with external IP networks	20
5 Extensions within the present document	20
5.1 SIP Transfer of Tariff Information XML body	20

5.1.1	General.....	20
5.1.2	MIME type definition	20
5.1.2.1	Introduction.....	20
5.1.2.2	Syntax	20
5.1.2.3	Operation.....	21
Annex A (informative): Signalling flows		22
Annex B (informative): SIP Transfer of Tariff Information parameters		26
B.1	General	26
B.2	NNI Information.....	26
B.2.0	General	26
B.2.1	Charge Message Type	26
B.2.2	Add On Charge Information.....	26
B.2.2.0	General.....	26
B.2.2.1	Add On Charge	26
B.2.2.1.0	General	26
B.2.2.1.1	Add On Charge Currency.....	27
B.2.2.1.2	Add On Charge Pulse.....	27
B.2.3	Tariff Information.....	27
B.2.3.0	General.....	27
B.2.3.1	Tariff.....	27
B.2.3.1.0	General	27
B.2.3.1.1	Tariff Currency	27
B.2.3.1.1.0	General	27
B.2.3.1.1.1	Current Tariff Currency.....	27
B.2.3.1.1.2	Tariff Switch Currency.....	28
B.2.3.1.1.2.0	General.....	28
B.2.3.1.1.2.1.0	General	28
B.2.3.1.1.2.1.1.0	General	28
B.2.3.1.1.2.1.1.1.0	General	28
B.2.3.1.2	Tariff Pulse.....	28
B.2.3.1.2.1	Current Tariff Pulse	28
B.2.3.1.2.2	Tariff Switch Pulse	29
B.3	Common information elements/types	29
B.3.1	Identification	29
B.3.1.1	Origination identification.....	29
B.3.1.2	Destination identification.....	29
B.3.1.3	Charge reference identification.....	29
B.3.1.4	Network identification	29
B.3.1.5	Reference ID.....	29
B.3.1.6	Network operators	30
B.3.2	Charge	30
B.3.2.1	Charge control indicators	30
B.3.2.1.0	General	30
B.3.2.1.1	Immediate change of actually applied tariff.....	30
B.3.2.1.2	Delay until start	30
B.3.2.2	Currency	30
B.3.2.3	Currency factor scale	30
B.3.2.3.1	Currency factor	30
B.3.2.3.2	Currency scale.....	30
B.3.2.4	Pulse units type	31
B.3.2.5	Communication charge currency type	31
B.3.2.5.1	Tariff duration	31
B.3.2.5.2	Sub tariff control	31
B.3.2.6	Tariff control iIndicators.....	31
B.3.2.7	Call attempt charge currency	31
B.3.2.8	Call setup charge currency.....	32
B.3.2.9	Tariff switchover time type.....	32
B.3.2.10	Communication charge pulse type.....	32

B.3.2.10.1	Pulse units	32
B.3.2.10.2	Charge unit time interval.....	32
B.3.2.10.3	Tariff duration	32
B.3.2.11	Tariff pulse format type	32
B.3.2.11.1	Communication charge sequence pulse	33
B.3.2.11.2	Call attempt charge pulse	33
B.3.2.11.3	Call setup charge pulse.....	33
B.3.2.12	Tariff duration type.....	33
B.3.2.13	Sub tariff control type	33
B.3.2.14	Charge unit time interval type.....	33
Annex C (normative): SIP Transfer of Tariff Information XML schema:		35
Annex D (informative): IANA registration templates.....		38
D.1	IANA registry for Application Media Types.....	38
D.1.1	IANA Registration template for application/vnd.etsi.sci+xml.....	38
Annex E (informative): Change history		40
History		41

Foreword

This Technical Specification (TS) was been produced by ETSI Technical Committee Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPAN) and originally published as ETSI TS 183 058 [7]. It was transferred to the 3rd Generation Partnership Project (3GPP) in January 2008.

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1 Scope

The present document specifies the Stage 3 of the real-time transfer of Tariff Information between a Charge Determination Point (CDP) and a Charge Generation Point (CGP) by means of the Session Initiation Protocol (SIP).

It identifies the protocol procedures and switching functions needed to support the transfer of tariff information related to IP multimedia services. The information needed to support the ISDN User part (ISUP) signalling aspects of charging (ES 201 296 [6]) for Advice of Charge information purposes is also specified, however, it can be used for other purposes as well where applicable.

The present document is applicable to an environment where different operators are working together. It is also applicable to a single network operator environment.

Whether the present document is applicable to a national environment and/or can be used for inter-network purposes depends on regulatory demands and/or bilateral agreements. It should be noted that there are network requirements and signalling limitations that are not covered because they are outside the scope of the present document. Examples of these are as follows:

- the on-line provided advice of charge information may not accurately reflect the correct charging rate due to discount rates, special charging arrangements, etc. It is out of scope to ensure alignment of this information;
- complaint handling between network operators in case of incorrect advice of charge information;
- explicit encryption or special security mechanisms;
- usage of the transferred tariff information for charging purposes;
- interaction between UE and CGP for possible confirmation of provided tariffs;
- any function behind the CGP towards the UE.

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.
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The following referenced documents are indispensable for the application of the present document. For dated references, only the edition cited applies. For non-specific references, the latest edition of the referenced document (including any amendments) applies.

- [1] 3GPP TS 22.173: "IP Multimedia Core Network Subsystem (IMS) Multimedia Telephony Service and supplementary services; Stage 1".
- [2] IETF RFC 2976: "The SIP INFO Method".
- [3] IETF RFC 4006: "Diameter Credit-Control Application".
- [4] 3GPP TS 24.229: "Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); Stage 3".
- [5] ISO 4217: "International Organization for Standardization; Type Currency Code List".