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Technical Report

3rd Generation Partnership Project; Technical Specification Group Core Network and Terminals; Study on IMS P-CSCF restoration procedures; (Release 12)





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Foreword

This Technical Report has been produced by the 3rd Generation Partnership Project (3GPP).

The contents of the present document are subject to continuing work within the TSG and may change following formal TSG approval. Should the TSG modify the contents of the present document, it will be re-released by the TSG with an identifying change of release date and an increase in version number as follows:

Version x.y.z

where:

- x the first digit:
 - 1 presented to TSG for information;
 - 2 presented to TSG for approval;
 - 3 or greater indicates TSG approved document under change control.
- y the second digit is incremented for all changes of substance, i.e. technical enhancements, corrections, updates, etc.
- z the third digit is incremented when editorial only changes have been incorporated in the document.

Introduction

This clause is optional. If it exists, it is always the second unnumbered clause.

1 Scope

This clause shall start on a new page.

The present document ...

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.
- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document in the same Release as the present document.

```
[1] 3GPP TR 21.905: "Vocabulary for 3GPP Specifications".
[2] 3GPP TR 41.001: "GSM Release specifications".
[3] 3GPP TR 21 912 (V3.1.0): "Example 2, using fixed text".
...
[x] <doctype><#>[([up to and including]{yyyy[-mm]|V<a[.b[.c]]>}[onwards])]: "<Title>".
```

It is preferred that the reference to 21.905 be the first in the list.

3 Definitions, symbols and abbreviations

Delete from the above heading those words which are not applicable.

Clause numbering depends on applicability and should be renumbered accordingly.

3.1 Definitions

For the purposes of the present document, the terms and definitions given in TR 21.905 [1] and the following apply. A term defined in the present document takes precedence over the definition of the same term, if any, in TR 21.905 [1].

Definition format (Normal)

<defined term>: <definition>.

example: text used to clarify abstract rules by applying them literally.

3.2 Symbols

For the purposes of the present document, the following symbols apply:

Symbol format (EW)

```
<symbol> <Explanation>
```

3.3 Abbreviations

For the purposes of the present document, the abbreviations given in TR 21.905 [1] and the following apply. An abbreviation defined in the present document takes precedence over the definition of the same abbreviation, if any, in TR 21.905 [1].

Abbreviation format (EW)

<ACRONYM> <Explanation>

4 Existing restoration procedures

4.1 Introduction

<This section shall describe 3GPP TS 23.380 Restoration Procedure principles and describe basic functioning. Include references to related 3GPP TSs. >

4.2 Limitations and drawbacks

<This section shall analyse existing solution limitations and drawbacks >

5 Objectives

<This section shall list the objectives to be covered by this technical report. Any solution alternative should fulfil these objectives>

6 Solution alternatives

6.1 Introduction

<This section introduces the chapter for the description of different alternatives for enhanced restoration solutions that could be based on different principles. >

6.2 Sol-x <title>

6.2.1 Overview

<This section includes a solution abstract >

6.2.2 Principles

<This section shall describe solution principles, at least, it shall include which events would trigger P-CSCF restoration and how detection is performed and forwarded to UE.>

6.2.3 Description

<This section shall describe basic functioning, including flow diagrams with relevant elements and interaction among all of them. Expected responsibilities and behaviour of each relevant element shall be listed, highlighting required impacts and modifications.</p>

6.2.4 Coexistence with existing solution

<This section shall describe whether or not coexistence of existing P-CSCF restoration mechanism with this new proposed solution is applicable. If applicable, this clause shall investigate coexistence related details. >

6.2.5 Objective compliance

<This section shall document how objectives are covered with new proposed alternative >

7 Conclusions

7.1 Comparison analysis

<This section shall include a comparison among alternative solutions, including comparison criteria, pros and cons.</p>
Different alternatives shall be qualified, identifying how close each one is to satisfy comparison criteria. This analysis shall allow identifying preferences among alternatives with the ultimate goal to agree on a preferred one >

7.2 Final conclusion

<This section states which is final preferred solution and summarizes reasoning for selection.>

Annex A (informative): Change history

Change history										
Date	TSG#	TSG Doc.	CR	Rev	Subject/Comment	Old	New			
2013-09	CT4#62	C4- 131491			Version 0.1.0 published	0.0.0	0.1.0			