

**Source:** SA5 (Telecom Management)

**Title:** Rel-6 CR 32.411 (Performance Management (PM) Integration Reference Point (IRP): Requirements): Expansion of the requirements for threshold alarms on bounded variables

**Document for:** Approval

**Agenda Item:** 7.5.3

| Doc-1st-Level | Spec   | CR  | Rev | Phase | Subject   | Cat | Version-Current | Doc-2nd-Level | Workitem |
|---------------|--------|-----|-----|-------|---|-----|-----------------|---------------|----------|
| SP-030432     | 32.411 | 001 | -   | Rel-6 | Expansion of the requirements for threshold alarms on bounded variables | C   | 6.0.0           | S5-038550     | OAM-PM   |

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| CR-Form-v7  |
| <b>CHANGE REQUEST</b>   |
| ⌘ <b>32.411 CR 001</b> ⌘ rev <b>-</b> ⌘ Current version: <b>6.0.0</b> ⌘ |

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

**Proposed change affects:** UICC apps  ME  Radio Access Network  Core Network

|                        |   |   |   |
|------------------------|---|---|---|
| <b>Title:</b>          | ⌘ | Expansion of the requirements for threshold alarms on bounded variables   |   |
| <b>Source:</b>         | ⌘ | SA5 (Veronica.Ayers@huawei.com)   |   |
| <b>Work item code:</b> | ⌘ | OAM-PM  | <b>Date:</b> ⌘ 05/09/03   |
| <b>Category:</b>       | ⌘ | <b>C</b>  | <b>Release:</b> ⌘ Rel-6   |
|                        |   | <i>Use one of the following categories:</i><br><b>F</b> (correction)<br><b>A</b> (corresponds to a correction in an earlier release)<br><b>B</b> (addition of feature),<br><b>C</b> (functional modification of feature)<br><b>D</b> (editorial modification)<br>Detailed explanations of the above categories can be found in 3GPP <a href="#">TR 21.900</a> . | <i>Use one of the following releases:</i><br><b>2</b> (GSM Phase 2)<br><b>R96</b> (Release 1996)<br><b>R97</b> (Release 1997)<br><b>R98</b> (Release 1998)<br><b>R99</b> (Release 1999)<br><b>Rel-4</b> (Release 4)<br><b>Rel-5</b> (Release 5)<br><b>Rel-6</b> (Release 6) |

|                                      |   |   |
|--------------------------------------|---|---|
| <b>Reason for change:</b>            | ⌘ | According to current PM IRP requirements, PM threshold crossing alarms cannot detect alarm conditions on the boundaries of bounded variables, e.g. monitor for 0 occurrences of an event. |
| <b>Summary of change:</b>            | ⌘ | Rename "Threshold Crossing Alarms" to " Threshold Alarms".<br>Replace occurrences of "crossed/crossing" with "reached or crossed".  |
| <b>Consequences if not approved:</b> | ⌘ | For bounded variables performance alarms cannot be detected on the boundaries because boundaries are never crossed, only equalled.  |

|                              |   |  |   |   |  |   |  |   |  |   |                           |   |
|------------------------------|---|--|---|---|--|---|--|---|--|---|---------------------------|---|
| <b>Clauses affected:</b>     | ⌘ | 5.3, 5.4   |   |   |  |   |  |   |  |   |                           |   |
| <b>Other specs affected:</b> | ⌘ | <table border="1" style="display: inline-table; vertical-align: middle;"> <tr><td style="text-align: center;">Y</td><td style="text-align: center;">N</td></tr> <tr><td style="text-align: center;"> </td><td style="text-align: center;">X</td></tr> <tr><td style="text-align: center;"> </td><td style="text-align: center;">X</td></tr> <tr><td style="text-align: center;"> </td><td style="text-align: center;">X</td></tr> </table> | Y | N |  | X |  | X |  | X | Other core specifications | ⌘ |
|                              |   | Y  | N |   |  |   |  |   |  |   |                           |   |
|                              |   |  | X |   |  |   |  |   |  |   |                           |   |
|                              | X |  |   |   |  |   |  |   |  |   |                           |   |
|                              | X |  |   |   |  |   |  |   |  |   |                           |   |
| Test specifications          |   |  |   |   |  |   |  |   |  |   |                           |   |
| O&M Specifications           |   |  |   |   |  |   |  |   |  |   |                           |   |
| <b>Other comments:</b>       | ⌘ |  |   |   |  |   |  |   |  |   |                           |   |

**Change in Clause 5.3****5.3 Management of threshold-~~crossing~~ alarms**

The IRP Manager shall be able to request the IRP Agent to:

- Set threshold values to specific performance measurements of specific network resources.
- Emit an alarm notification indicating threshold(s) ~~crossing~~ reached or crossed if the threshold value(s) is equalled or crossed.

**End of Change in Clause 5.3****Change in Clause 5.4****5.4 Management of measurement events**

The IRP Manager shall be able to:

- Subscribe to notifications that carry threshold ~~crossing~~ alarms and information on the availability of performance measurement data files.

**End of Change in Clause 5.4  
End of Document**

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## Annex A (informative): Change history

| Change history |       |           |    |     |  |       |       |
|----------------|-------|-----------|----|-----|--|-------|-------|
| Date           | TSG # | TSG Doc.  | CR | Rev | Subject/Comment                        | Old   | New   |
| Sep 2002       | S_17  | SP-020500 | -- | --  | Submitted to TSG SA#17 for Information | 1.0.0 |       |
| Jun 2003       | S_20  | SP-030294 | -- | --  | Submitted to TSG SA#20 for Approval    | 2.0.0 | 6.0.0 |
|                |       |           |    |     |  |       |       |
|                |       |           |    |     |  |       |       |
|                |       |           |    |     |  |       |       |