TSGS#13(01)0474

Technical Specification Group Services and System Aspects Meeting #13, Beijing, China, 24-27 September 2001

Source: SA5

Title: Rel-4 CR32.111-2 & 32.111-3 on thresholdInfo in Alarm IRP

Document for: Approval

Agenda Item: 7.5.3

Doc-1st- Level	Doc-2nd- Level	Spec	CR	Rev	Phase	Subject	Cat	Versio n	Version -New	Workitem
								Current		
SP-010474	S5-010569	32.111-2	009		Rel-4	Definition of thresholdInfo in Alarm IRP: IS	F	4.0.0	4.1.0	OAM-FM
SP-010474	S5-010570	32.111-3	011		Rel-4	Definition of thresholdInfo in Alarm IRP: CORBA SS	F	4.0.0	4.1.0	OAM-FM

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S5-010569 S5<mark>C</mark>010352

	CR-Form-v CHANGE REQUEST
ж <mark>3</mark> ;	2.111-2 CR 009 # rev _ # Current version: 4.0.0 #
For <u>HELP</u> on us	ing this form, see bottom of this page or look at the pop-up text over the ℜ symbols.
Proposed change a	ffects: 第 (U)SIM ME/UE Radio Access Network Core Network X
Title: 第	Definition of thresholdInfo in Alarm IRP: IS
Source: #	SA5
Work item code: ₩	OAM-FM Date: 第 07/09/2001
Category: Ж	Release: # REL-4
	Use one of the following categories: F (essential correction) A (corresponds to a correction in an earlier release) B (Addition of feature), C (Functional modification of feature) D (Editorial modification) C (Functional modification) C (Editorial modification) D (Editorial modification) C (Functional modification) C (Functional modification) C (Functional modification) C (Editorial modification) C (Functional modification) C (Editorial modification) C (Editorial modification) C (Functional modification) C (Editorial modification)
Posson for change	★ To re-use ITU-T X.733 thresholdInfo definition.
Neason for change	To re-use 110-1 A.733 timesholdinio delimition.
Summary of change	Remove current definition of thresholdInfo and make reference to ITU-T definition specified in X.733.
Consequences if not approved:	
Clauses affected:	# All clauses.
Other specs affected:	# Other core specifications Test specifications X O&M Specifications 32.111-3 ("Child" to this CR32.111-2-009)
Other comments:	Monly if this "Parent" CR is approved, the "Child" CR32.111-3-011_S5-010570 can also be approved.

thresholdInfo	g.	See definitions in ITU-T Recommendation X.733 [2] clause 8.1.2.7.
stateChange Definition	It indicates MO attribute value changes. See definition in ITU-T Recommendation X.733 [2] clause 8.1.2.10.	
monitored Attributes	It indicates MO attributes whose value changes are being monitored. See definition in ITU-T Recommendation X.733 [2] clause 8.1.2.11.	

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			CI	HANG	ΕR	EQ	UES	ST	ı			CR-Form-v3
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Proposed of	change a	nffects: #	(U)SIN	M N	IE/UE		Radio	Ac	cess Networ	k	Core N	etwork X
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Source:	ж	SA5										
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Summary o	of chang	1.							e NV pair of the ad of threshol			Γable 8.
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Consequer not approv				oldInfo is on some son/ration					fined in X.733 ce.	3. Th	ere is no	
Clauses af	factod:	ж <u>А)</u>	5.3 (the ta	ahla 8)								
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Other spec affected:	es	₩ C			ions	Ж	32.1	111-	.2 ("Parent" to	o this	CR32.11	1-3-011)
Other com	ments:			of this "ch 009_S5-01		R is d	epend	ding	upon the ap	prova	I of the "p	arent"

5.3 Notification parameter mapping

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Table 8: Mapping for notifyNewAlarm

•••

thresholdInf o	One NV pair of filterable_body_fields	0	Name of NV pair is the THRESHOLD_INFO of interface ParameterNameValue of module AlarmIRPConstDefs.
			Value of NV pair is a ThresholdInfoType.
stateChange Definition	One NV pair of filterable_body_fields	Ο	Name of NV pair is the STATE_CHANGE_DEFINITION of interface AttributeNameValue of module AlarmIRPConstDefs.
			Value of NV pair is an AttributeChangeSetType.
monitoredAtt ributes	One NV pair of filterable_body_fields	0	Name of NV pair is the MONITORED_ATTRIBUTES of interface AttributeNameValue of module AlarmIRPConstDefs.
			Value of NV pair is an AttributeSetType.

```
Annex A (normative):
IDL specification
It indicates if the threshold crossed was in the up or down direction.
enum ThresholdIndicationType {Up, Down};
/* FloatTypeOpt is an optional type.
  If the discriminator is true the value is present.
  Otherwise the value is null.
union FloatTypeOpt switch (boolean)
  case TRUE: float value;
};
/* ThresholdLevelIndType describes multi-level
   threshold crossings.
  Up is the only permitted choice for a counter.
  If indication is "up", low value is optional.
  @member indication: indicates up or down direction
    of crossing.
  @member low: the low observed value.
  @member high: the high observed value.
struct ThresholdLevelIndType
       ThresholdIndicationType indication;
       FloatTypeOpt low;
       float high;
};
/* ThresholdLevelIndTypeOpt is an optional type.
  If the discriminator is true the value is present.
  Otherwise, the value is null.
union ThresholdLevelIndTypeOpt switch (boolean)
      case TRUE: ThresholdLevelIndType value;
};
/* ThresholdInfoType indicates some guage or counter
  attribute passed a set threshold.
```

```
@member attributeID: identifies the attribute that
    crossed the threshold.
   @member observedValue: attributes that are of type
    integer will be converted to floats.
   @member thresholdlevel: This parameter is for
    multi-level threhsolds. Optional.
   @member armTime: May contain empty string.
struct ThresholdInfoType
      string attributeID;
      float observedValue;
      ThresholdLevelIndTypeOpt thresholdLevel;
      string armTime;
};
/*
It indicates if some observed condition is getting better, worse,
or not changing.
* /
enum TrendIndicationType {LessSevere, NoChange, MoreSevere};
It is used to report a changed attribute value.
* /
struct AttributeValueChangeType
  string attribute_name;
         old_value; // type depends on attribute
new_value; // type depends on attribute
  any
};
```