Source: **SA5 (Telecom Management)**

Title: **2 Rel-5/6 CR 32.643 Add the operationalState to the UtranCell ñ Align the CORBA SS with 32.642 CM; UTRAN network resources IRP NRM**

Document for: **Approval**

Agenda Item: **7.5.3**

Doc-1st-Level	Doc-2nd-Level	Spec	CR	Rev	Phase	Subject	Cat	Ver-Cur	Wi
SP-040589	S5-048632	32.643	010	--	Rel-5	Add the operationalState to the UtranCell ñ Align the CORBA SS with 32.642 CM; UTRAN network resources IRP NRM	F	5.3.0	OAM-NIM
SP-040589	S5-048633	32.643	011	--	Rel-6	Add the operationalState to the UtranCell ñ Align the CORBA SS with 32.642 CM; UTRAN network resources IRP NRM	A	6.1.0	OAM-NIM

CR-Form-v7

CHANGE REQUEST

✄	**32.643** CR **010**	✄**rev**	**-**	✄	Current version:	**5.3.0**	✄

*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 **X**　Core Network ☐

Title:	✄	Add the operationalState to the UtranCell ñ Align the CORBA SS with 32.642 CM; UTRAN network resources IRP NRM

Source:	✄	**SA5** (olaf.pollakowski@siemens.com)

Work item code:	✄	OAM-NIM		**Date:**	✄	20/08/2004

Category:	✄	**F**		**Release:**	✄	Rel-5

Use one of the following categories:
　　F *(correction)*
　　A *(corresponds to a correction in an earlier release)*
　　B *(addition of feature),*
　　C *(functional modification of feature)*
　　D *(editorial modification)*
Detailed explanations of the above categories can be found in 3GPP TR 21.900.

Use one of the following releases:
　2　　　*(GSM Phase 2)*
　R96　*(Release 1996)*
　R97　*(Release 1997)*
　R98　*(Release 1998)*
　R99　*(Release 1999)*
　Rel-4　*(Release 4)*
　Rel-5　*(Release 5)*
　Rel-6　*(Release 6)*

Reason for change:	✄	The attributes of UtranCell in the IS includes the operationalState. This attribute is not mapped in the CORBA SS.

Summary of change:	✄	The IS attribute operationalState is mapped into the CORBA SS.

Consequences if not approved:	✄	The CORBA SS of the Utran NRM IRP would not be consistent with the IS.

Clauses affected:	✄	5.2.2, Annex A

Other specs affected:	✄	Y	N		✄	
			X	Other core specifications	✄	
			X	Test specifications		
		X		O&M Specifications		Rel-6 32.643

Other comments:	✄	Rel-6 Mirror CR in S5-048633.

Change in Clause 5.2.2

5.2.2 IOC UtranCell

Table 5.2: Mapping from NRM IOC UtranCell attributes and associations to SS equivalent MOC UtranCell attributes

NRM Associations/Attributes of IOC UtranCell in 3GPP TS 32.642 [4]	SS Attributes	SS Type	Support Qualifier	Read	Write
utranCellId	utranCellId	string	M	M	_
userLabel	userLabel	string	M	M	M
cId	cId	long	M	M	M
localCellId	localCellId	long	M	M	M
uarfcnUl	uarfcnUl	long	M	M	M
uarfcnDl	uarfcnDl	long	M	M	M
primaryScramblingCode	primaryScramblingCode	long	M	M	M
primaryCpichPower	primaryCpichPower	long	M	M	M
maximumTransmissionPower	maximumTransmissionP ower	long	M	M	M
primarySchPower	primarySchPower	long	M	M	M
secondarySchPower	secondarySchPower	long	M	M	M
bchPower	bchPower	long	M	M	M
lac	lac	long	M	M	M
rac	rac	long	M	M	M
sac	sac	long	M	M	M
uraList	uraList	LIST of long	M	M	M
AssociatedWith/ utranCell-IubLink	utranCellIubLink	GenericNRIRPSyst em::AttributeTypes:: MOReference	M	M	-
operationalState	operationalState	StateManagementI RPOptConstDefs::O perationalStateType Opt	O	M	-

End of Change in Clause 5.2.2

Change in Clause Annex A

Annex A (normative): CORBA IDL, NRM Definitions

```
#ifndef UtranNetworkResourcesNRMDefs_idl
#define UtranNetworkResourcesNRMDefs_idl

#pragma prefix "3gppsa5.org"

/**
 * This module defines constants for each MO class name and
 * the attribute names for each defined MO class.
 */
module UtranNetworkResourcesNRMDefs
{
```

```
/**
 *  Definitions for MO class RncFunction
 */
interface RncFunction
{
    const string CLASS = "RncFunction";

    // Attribute Names
    //
    const string rncFunctionId = "rncFunctionId";
    const string userLabel = "userLabel";
    const string mcc= "mcc";
    const string mnc= "mnc";
    const string rncId= "rncId";
};


/**
 *  Definitions for MO class UtranCell
 */
interface UtranCell
{
    const string CLASS = "UtranCell";

    // Attribute Names
    //
    const string utranCellId = "utranCellId";
    const string userLabel = "userLabel";
    const string utranCellIubLink = "utranCellIubLink";
    const string cId= "cId";
    const string localCellId= "localCellId";
    const string uarfcnUl= "uarfcnUl";
    const string uarfcnDl= "uarfcnDl";
    const string primaryScramblingCode= "primaryScramblingCode";
    const string primaryCpichPower= "primaryCpichPower";
    const string maximumTransmissionPower= "maximumTransmissionPower";
    const string primarySchPower= "primarySchPower";
    const string secondarySchPower= "secondarySchPower";
    const string bchPower= "bchPower";
    const string lac= "lac";
    const string rac= "rac";
    const string sac= "sac";
    const string uraList= "uraList";
    const string operationalState = "operationalState";

};


/**
 *  Definitions for MO class NodeBFunction
 */
interface NodeBFunction
{
    const string CLASS = "NodeBFunction";

    // Attribute Names
    //
    const string nodeBFunctionId = "nodeBFunctionId";
    const string userLabel = "userLabel";
    const string nodeBFunctionIubLink = "nodeBFunctionIubLink";
};


/**
 *  Definitions for MO class IubLink
```

```
      */
    interface IubLink
    {
        const string CLASS = "IubLink";

        // Attribute Names
        //
        const string iubLinkId = "iubLinkId";
        const string userLabel = "userLabel";
        const string iubLinkNodeBFunction = "iubLinkNodeBFunction";
        const string iubLinkUtranCell = "iubLinkUtranCell";

    };

};


    /**
     *  Definitions for MO class UtranRelation
     */
    interface UtranRelation
    {
        const string CLASS = "UtranRelation";

        // Attribute Names
        //
        const string utranRelationId = "utranRelationId";
        const string adjacentCell = "adjacentCell";
        const string uarfcnUl= "uarfcnUl";
        const string uarfcnDl= "uarfcnDl";
        const string primaryScramblingCode= "primaryScramblingCode";
        const string primaryCpichPower= "primaryCpichPower";
        const string lac= "lac";
};


/**
     *  Definitions for MO class ExternalUtranCell
     */
    interface ExternalUtranCell
    {
        const string CLASS = "ExternalUtranCell";

        // Attribute Names
        //
        const string externalUtranCellId = "externalUtranCellId";
        const string userLabel = "userLabel";
        const string cId= "cId";
        const string mcc= "mcc";
        const string mnc= "mnc";
        const string rncId= "rncId";
        const string uarfcnUl= "uarfcnUl";
        const string uarfcnDl= "uarfcnDl";
        const string primaryScramblingCode= "primaryScramblingCode";
        const string primaryCpichPower= "primaryCpichPower";
        const string lac= "lac";
        const string rac= "rac";

    };


#endif
```

End of Change in Clause Annex A

Annex B (informative): Change history

Change history							
Date	**TSG #**	**TSG Doc.**	**CR**	**Rev**	**Subject/Comment**	**Old**	**New**
Jun 2001	S_12	SP-010283	--	--	Approved at TSG SA #12 and placed under Change Control	2.0.0	4.0.0
Dec 2001	S_14	SP-010646	001	--	Change type "integer" to "long" in the UTRAN Network Resources IRP: CORBA SS	4.0.0	4.1.0
Sep 2002	S_17	SP-020493	002	--	Upgrade to Rel-5	4.1.0	5.0.0
Jun 2003	S_20	SP-030283	004	--	Deletion of UTRAN attribute relationType from CORBA SS.	5.0.0	5.1.0
Dec 2003	S_22	SP-030646	006	--	Correction of the number of possible URAs from 1 to 8	5.1.0	5.2.0
Jun 2004	S_24	SP-040254	008	--	The specification does not support all UMTS frequency bands	5.2.0	5.3.0

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CHANGE REQUEST

⌘	**32.643** CR **011**	⌘**rev**	**-**	⌘	Current version:	**6.1.0**	⌘

*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 **X**   Core Network ☐

Title:	⌘	Add the operationalState to the UtranCell ñ Align the CORBA SS with 32.642 CM; UTRAN network resources IRP NRM
Source:	⌘	**SA5** (olaf.pollakowski@siemens.com)

Work item code:⌘	OAM-NIM		*Date:* ⌘	20/08/2004

Category: ⌘	**A**	*Release:* ⌘	Rel-6

Use <u>one</u> of the following categories:
F (correction)
A (corresponds to a correction in an earlier release)
B (addition of feature),
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Detailed explanations of the above categories can
be found in 3GPP TR 21.900.

Use <u>one</u> of the following releases:
2   (GSM Phase 2)
R96   (Release 1996)
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R98   (Release 1998)
R99   (Release 1999)
Rel-4   (Release 4)
Rel-5   (Release 5)
Rel-6   (Release 6)

Reason for change:	⌘	The attributes of UtranCell in the IS includes the operationalState. This attribute is not mapped in the CORBA SS.
Summary of change:⌘		The IS attribute operationalState is mapped into the CORBA SS.
Consequences if not approved:	⌘	The CORBA SS of the Utran NRM IRP would not be consistent with the IS.

Clauses affected:	⌘	5.2.2, Annex A

	Y	N		
Other specs affected:	⌘		X	Other core specifications ⌘
			X	Test specifications
			X	O&M Specifications

Other comments:	⌘	Rel-6 Mirror CR of S5-048632.

Change in Clause 5.2.2

5.2.2   IOC UtranCell

Table 5.2: Mapping from NRM IOC UtranCell attributes and associations to SS equivalent MOC UtranCell attributes

NRM Associations/Attributes of IOC UtranCell in 3GPP TS 32.642 [4]	SS Attributes	SS Type	Support Qualifier	Read	Write
utranCellId	utranCellId	string	M	M	_
userLabel	userLabel	string	M	M	M
cId	cId	long	M	M	M
localCellId	localCellId	long	M	M	M
uarfcnUl	uarfcnUl	long	O	M	M
uarfcnDl	uarfcnDl	long	O	M	M
primaryScramblingCode	primaryScramblingCode	long	O	M	M
primaryCpichPower	primaryCpichPower	long	O	M	M
maximumTransmissionPower	maximumTransmissionPower	long	M	M	M
primarySchPower	primarySchPower	long	O	M	M
secondarySchPower	secondarySchPower	long	O	M	M
bchPower	bchPower	long	O	M	M
lac	lac	long	M	M	M
rac	rac	long	M	M	M
sac	sac	long	M	M	M
uraList	uraList	List of long	M	M	M
AssociatedWith/ utranCell-IubLink	utranCellIubLink	GenericNRIRPSystem::AttributeTypes:: MOReference	M	M	-
cellMode	cellMode	GenericNRMAttributeTypes:: cellModeEnumType	M	M	-
uarfcn	uarfcn	long	O	M	M
cellParameterId	cellParameterId	long	O	M	M
primaryCcpchPower	primaryCcpchPower	long	O	M	M
dwPchPower	dwPchPower	long	O	M	M
timeSlotList	timeSlotList	TDDNRMAttributeTypes:: TimeSlotListConfigStructType	O	M	M
schPower	schPower	long	O	M	M
operationalState	operationalState	StateManagementIRPOptConstDefs::OperationalStateTypeOpt	O	M	-

NOTE: For all support qualifiers with the value ìOî, see attribute constraints in 3GPP TS 32.642 [4].

End of Change in Clause 5.2.2

Change in Clause Annex A

Annex A (normative):
CORBA IDL, NRM definitions

A.1 IDL specification (file name "UtranNetworkResourcesNRMDefs.idl")

```
#ifndef UtranNetworkResourcesNRMDefs_idl
#define UtranNetworkResourcesNRMDefs_idl

#pragma prefix "3gppsa5.org"

/**
 * This module defines constants for each MO class name and
 * the attribute names for each defined MO class.
 */
module UtranNetworkResourcesNRMDefs
{



      /**
       *  Definitions for MO class RncFunction
       */
      interface RncFunction
      {
         const string CLASS = "RncFunction";

         // Attribute Names
         //
         const string rncFunctionId = "rncFunctionId";
         const string userLabel = "userLabel";
         const string mcc= "mcc";
         const string mnc= "mnc";
         const string rncId= "rncId";
      };


      /**
       *  Definitions for MO class UtranCell
       */
      interface UtranCell
      {
         const string CLASS = "UtranCell";

         // Attribute Names
         //
         const string utranCellId = "utranCellId";
         const string userLabel = "userLabel";
         const string utranCellIubLink = "utranCellIubLink";
         const string cId= "cId";
         const string localCellId= "localCellId";
         const string uarfcnUl= "uarfcnUl";
         const string uarfcnDl= "uarfcnDl";
         const string primaryScramblingCode= "primaryScramblingCode";
         const string primaryCpichPower= "primaryCpichPower";
         const string maximumTransmissionPower= "maximumTransmissionPower";
         const string primarySchPower= "primarySchPower";
```

```
        const string secondarySchPower= "secondarySchPower";
        const string bchPower= "bchPower";
        const string cellMode = "cellMode";
        const string uarfcn= "uarfcn";
        const string cellParameterId= "cellParameterId";
        const string primaryCcpchPower= "primaryCcpchPower";
        const string dwPchPower= "dwPchPower";
        const string timeSlotList= "timeSlotList";
        const string schPower= "schPower";
        const string lac= "lac";
        const string rac= "rac";
        const string sac= "sac";
        const string uraList= "uraList";
        const string operationalState = "operationalState";

    };



    /**
     *  Definitions for MO class NodeBFunction
     */
    interface NodeBFunction
    {
        const string CLASS = "NodeBFunction";

        // Attribute Names
        //
        const string nodeBFunctionId = "nodeBFunctionId";
        const string userLabel = "userLabel";
        const string nodeBFunctionIubLink = "nodeBFunctionIubLink";
    };


    /**
     *  Definitions for MO class IubLink
     */
    interface IubLink
    {
        const string CLASS = "IubLink";

        // Attribute Names
        //
        const string iubLinkId = "iubLinkId";
        const string userLabel = "userLabel";
        const string iubLinkNodeBFunction = "iubLinkNodeBFunction";
        const string iubLinkUtranCell = "iubLinkUtranCell";

    };

};


    /**
     *  Definitions for MO class UtranRelation
     */
    interface UtranRelation
    {
        const string CLASS = "UtranRelation";

        // Attribute Names
        //
        const string utranRelationId = "utranRelationId";
        const string adjacentCell = "adjacentCell";
        const string uarfcnUl= "uarfcnUl";
        const string uarfcnDl= "uarfcnDl";
```

```
            const string primaryScramblingCode= "primaryScramblingCode";
            const string primaryCpichPower= "primaryCpichPower";
            const string cellMode = "cellMode";
            const string uarfcn= "uarfcn";
            const string cellParameterId= "cellParameterId";
            const string primaryCcpchPower= "primaryCcpchPower";
            const string lac= "lac";
};


/**
         *   Definitions for MO class ExternalUtranCell
         */
        interface ExternalUtranCell
        {
            const string CLASS = "ExternalUtranCell";

            // Attribute Names
            //
            const string externalUtranCellId = "externalUtranCellId";
            const string userLabel = "userLabel";
            const string cId= "cId";
            const string mcc= "mcc";
            const string mnc= "mnc";
            const string rncId= "rncId";
            const string uarfcnUl= "uarfcnUl";
            const string uarfcnDl= "uarfcnDl";
            const string primaryScramblingCode= "primaryScramblingCode";
            const string primaryCpichPower= "primaryCpichPower";
            const string cellMode = "cellMode";
            const string uarfcn= "uarfcn";
            const string cellParameterId= "cellParameterId";
            const string primaryCcpchPower= "primaryCcpchPower";
            const string lac= "lac";
            const string rac= "rac";

        };

/**
    *  This module adds datatype definitions for both FDD and TDD mode
    *  attributes used in the NRM which are not the basic datatypes
    *  already defined in CORBA.
    */
module GenericNRMAttributeTypes
{

        enum CellModeEnumType
        {
            FDDMode,
            3-84McpsTDDMode,
            1-28McpsTDDMode
        };

}

/**
    *  This module adds datatype definitions for TDD mode attributes
    *  used in the NRM which are not the basic datatypes already defined
    *  in CORBA.
    */
    module TDDNRMAttributeTypes
    {

        enum TimeSlotDirectionType
        {
            UL,
```

```
        DL
    };

    enum TimeSlotStatusType
    {
        Active,
        Not-Active
    };

    struct TimeSlotConfigStructType
    {
        short timeSlotId;
        TimeSlotDirectionType timeSlotDirection;
        TimeSlotStatusType timeSlotStatus;
    };

    typedef sequence<TimeSlotConfigStructType> TimeSlotListConfigStructType;

};

#endif
```

End of Change in Clause Annex A

Annex B (informative): Change history

Change history							
Date	**TSG #**	**TSG Doc.**	**CR**	**Rev**	**Subject/Comment**	**Old**	**New**
Jun 2001	S_12	SP-010283	--	--	Approved at TSG SA #12 and placed under Change Control	2.0.0	4.0.0
Dec 2001	S_14	SP-010646	001	--	Change type "integer" to "long" in the UTRAN Network Resources IRP: CORBA SS	4.0.0	4.1.0
Sep 2002	S_17	SP-020493	002	--	Upgrade to Rel-5	4.1.0	5.0.0
Jun 2003	S_20	SP-030283	004	--	Deletion of UTRAN attribute relationType from CORBA SS.	5.0.0	5.1.0
Dec 2003	S_22	SP-030646	006	--	Correction of the number of possible URAs from 1 to 8	5.1.0	5.2.0
Mar 2004	S_23	SP-040129	007	--	Enhancement of CORBA SS for support of both FDD and TDD modes	5.2.0	6.0.0
Jun 2004	S_24	SP-040254	009	--	The specification does not support all UMTS frequency bands	6.0.0	6.1.0