Reference Manual

EDACS® NETWORK MANAGEMENT ENTERPRISE MANAGEMENT INFORMATION BASE (MIB)



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1. INTRODUCTION

This manual describes the Enhanced Digital Access Communication System (EDACS) Private Radio System (PRS) Enterprise Management Information Base (MIB) files and defines each item identified within the file groups. These MIBs are intended for use by network management stations (NMS) employing the Simple Network Management Protocol (SNMP).

The MIB definitions and files presented in this manual were written using the Abstract Syntax Notation, version 1 (ASN.1) standards.

The following MIB files are included in this manual:

MIB FILE	CONTENTS OVERVIEW
edacs100.mib	Primary EDACS enterprise hierarchy and product identification.
edacs101.mib	Common system (network element) management information. Implementation of this MIB is mandatory for all EDACS elements which will communicate directly with the Network Manager.
edacs102.mib	Alarm threshold. Provides a general purpose alarming mechanism for subject matter which is threshold oriented in nature (for example, a disk becoming full).
edacs103.mib	Site level general performance information.
edacs104.mib	Node level (e.g. IMC) general performance information.

2. EDACS MANAGED ELEMENT IDENTIFICATION MIB

The EDACS Managed Element Identification MIB provides the primary object identifiers in the Enhanced Digital Communication System (EDACS) branch of the Ericsson private enterprise tree. The Ericsson (LM Ericsson AB) Enterprise number is 193. EDACS is assigned node 10 under the Ericsson tree as shown in Figure 1. The ASN.1 prefix to, and including the Ericsson (193).edacs (10) node is 1.3.6.4.1.193.10.



Figure 1 - Standard SNMP MIB Tree

LBI-39170 EDACS MANAGED ELEMENT IDENTIFICATION MIB

The graphical representation in Figure 2 shows the primary branches in the ericsson (193).edacs (10) enterprises subtree. The private (4) node is derived from the iso (1) root shown in Figure 1. Each of the primary nodes is assigned an identifier and fully described in Table 1.



Figure 2 - EDACS Enterprise Subtree Primary Branches

NODE	IDENTIFIER	DESCRIPTION
edacs	1.3.6.1.4.1.193.10	Start of the EDACS subtree, relative to the ericsson (193) private enterprises assignment.
system	1.3.6.1.4.1.193.10.1	Start of subtree for EDACS system MIB extensions. This branch is intended to be as platform independent (e.g. common) as possible.
product	1.3.6.1.4.1.193.10.2	Start of subtree for EDACS product specific MIB extensions.
protocol	1.3.6.1.4.1.193.10.3	Start of subtree for EDACS proprietary protocols MIB extensions. This branch is similar to the transmission (10) group of MIB-II.
partner	1.3.6.1.4.1.193.10.4	Start of subtree reserved for EDACS strategic partners MIB extensions. For example, HP's Automated Test and Measurement System.
experimental	1.3.6.1.4.1.193.10.5	Reserved for EDACS experimental MIB development. MIBs developed under this branch are not intended for release to customers.

Table 1 -	EDACS	Enterprise	Primarv	Nodes
I GOIC I		Lincer prince	I I IIII J	110400

2.1 EDACS SYSTEM NODE

The graphical representation in Figure 3 shows the primary branches in the EDACS System Node. Each of the branches under the System subtree (general, SNMP, alarm, site and node) are fully detailed in the following chapters of this manual.



Figure 3 - EDACS System Node

2.2 EDACS PRODUCT NODE

The graphical representation in Figure 4 shows the primary branches in the EDACS Product Node.



Figure 4 - EDACS Product Group

The following is a listing of the products currently identified under the node-equip (2) and site-equip (3) branches.

networkManager	1.3.6.1.4.1.193.10.2.1	
node-equip	1.3.6.1.4.1.193.10.2.2	
systemManager	1.3.6.1.4.1.193.10.2.2.1	
imcManager	1.3.6.1.4.1.193.10.2.2.2	
jessica	1.3.6.1.4.1.193.10.2.2.3	
pi	1.3.6.1.4.1.193.10.2.2.3.1	
datagateway	1.3.6.1.4.1.193.10.2.2.4	
edgCentralActivityProcessor	1.3.6.1.4.1.193.10.2.2.4.1	

EDACS MANAGED ELEMENT IDENTIFICATION MIB

edgTrunkingSystemInterface	1.3.6.1.4.1.193.10.2.2.4.2
edgHostDataInterface	1.3.6.1.4.1.193.10.2.2.4.3
bcu-cal	1.3.6.1.4.1.193.10.2.2.5
cec-imc	1.3.6.1.4.1.193.10.2.2.6
site-equip	1.3.6.1.4.1.193.10.2.3
base-station	1.3.6.1.4.1.193.10.2.3.1
master	1.3.6.1.4.1.193.10.2.3.1.1
master-II3	1.3.6.1.4.1.193.10.2.3.1.1.1
master-III	1.3.6.1.4.1.193.10.2.3.1.1.2
prism	1.3.6.1.4.1.193.10.2.3.1.2
siteController	1.3.6.1.4.1.193.10.2.3.2
getc	1.3.6.1.4.1.193.10.2.3.3
getcProgrammer	1.3.6.1.4.1.193.10.2.3.4
eli	1.3.6.1.4.1.193.10.2.3.5

2.3 EDACS TERMINAL NODE

The graphical representation in Figure 5 shows the primary branches in the EDACS Product Terminal Node. It is not anticipated that many of the products in the terminal node will have MIB extensions developed. However, they are assigned an authoritative identity for data-basing purposes (subscriber management, inventory purposes, etc.).



Figure 5 - EDACS Product Terminal Node

The following provides a listing of the products currently identified under the terminal (4) branch.

radio	1.3.6.1.4.1.193.10.2.4.1
portable	1.3.6.1.4.1.193.10.2.4.1.1
mp-pa	1.3.6.1.4.1.193.10.2.4.1.1.1
mp-rk	1.3.6.1.4.1.193.10.2.4.1.1.2
mtl-sx	1.3.6.1.4.1.193.10.2.4.1.1.3
tpx	1.3.6.1.4.1.193.10.2.4.1.1.4

pcs	1.3.6.1.4.1.193.10.2.4.1.1.5
mpi	1.3.6.1.4.1.193.10.2.4.1.1.6
mpi-I	1.3.6.1.4.1.193.10.2.4.1.1.6.1
mpi-II	1.3.6.1.4.1.193.10.2.4.1.1.6.2
jane	1.3.6.1.4.1.193.10.2.4.1.1.7
mobile	1.3.6.1.4.1.193.10.2.4.1.2
fmd	1.3.6.1.4.1.193.10.2.4.1.2.1
mtd	1.3.6.1.4.1.193.10.2.4.1.2.2
mls	1.3.6.1.4.1.193.10.2.4.1.2.3
mls-I	1.3.6.1.4.1.193.10.2.4.1.2.3.1
mls-II	1.3.6.1.4.1.193.10.2.4.1.2.3.2
mvs	1.3.6.1.4.1.193.10.2.4.1.2.4
mds	1.3.6.1.4.1.193.10.2.4.1.2.5
mdr	1.3.6.1.4.1.193.10.2.4.1.2.6
tmx-8825	1.3.6.1.4.1.193.10.2.4.1.2.7
rangr	1.3.6.1.4.1.193.10.2.4.1.2.8
delta	1.3.6.1.4.1.193.10.2.4.1.2.9
delta-s	1.3.6.1.4.1.193.10.2.4.1.2.9.1
delta-sx	1.3.6.1.4.1.193.10.2.4.1.2.9.2
orion	1.3.6.1.4.1.193.10.2.4.1.2.10
pager	1.3.6.1.4.1.193.10.2.4.1.3

beacon	1.3.6.1.4.1.193.10.2.4.1.3.1
beacon-I	1.3.6.1.4.1.193.10.2.4.1.3.1.1
beacon-II	1.3.6.1.4.1.193.10.2.4.1.3.1.2

programmer

dispatch

console maestro-C3 1.3.6.1.4.1.193.10.2.4.1.4

1.3.6.1.4.1.193.10.2.4.2 1.3.6.1.4.1.193.10.2.4.2.1 1.3.6.1.4.1.193.10.2.4.2.1.1

3. SYSTEM GENERAL GROUP

The System General Group is detailed in the Common Management Information Base (MIB). The MIB file "edacs101.mib," located in Appendix A, provides instrumentation of identification, software configuration, asset utilization, and remote operations common to all EDACS Managed Element (ME) resources. Implementation of this MIB is mandatory for all managed elements communicating directly with an EDACS Network Management Station (NMS).

The graphical representation in Figure 6 shows the primary branches in the EDACS System General Group.



Figure 6 - EDACS System General Group

The following summarizes the items currently identified under the general (1) branch.

identity		1.3.6.1.4.1.193.10.1.1.1
	identSysObjectID	1.3.6.1.4.1.193.10.1.1.1.1
	identServiceNodeNumber	1.3.6.1.4.1.193.10.1.1.1.2
(operation	1.3.6.1.4.1.193.10.1.1.2
	operDateAndTime	1.3.6.1.4.1.193.10.1.1.2.1
	operRemoteReset	1.3.6.1.4.1.193.10.1.1.2.2
	operAnnounceReset	1.3.6.1.4.1.193.10.1.1.2.3
	operRemoteStatus	1.3.6.1.4.1.193.10.1.1.2.4
	operAnnounceStatus	1.3.6.1.4.1.193.10.1.1.2.5
S	software	1.3.6.1.4.1.193.10.1.1.3
	softwareTable	1.3.6.1.4.1.193.10.1.1.3.1
	softwareEntry	1.3.6.1.4.1.193.10.1.1.3.1.1
	softwareIndex	1.3.6.1.4.1.193.10.1.1.3.1.1.1
	softwareType	1.3.6.1.4.1.193.10.1.1.3.1.1.2
	softwarePartNumber	1.3.6.1.4.1.193.10.1.1.3.1.1.3
	softwareRevMajorID	1.3.6.1.4.1.193.10.1.1.3.1.1.4
	softwareRevMinorID	1.3.6.1.4.1.193.10.1.1.3.1.1.5
	softwareTargetDevice	1.3.6.1.4.1.193.10.1.1.3.1.1.6
	softwareDescription	1.3.6.1.4.1.193.10.1.1.3.1.1.7
	softwareExtraInfo	1.3.6.1.4.1.193.10.1.1.3.1.1.8

softwarePath	1.3.6.1.4.1.193.10.1.1.3.1.1.9
softwareStatus	1.3.6.1.4.1.193.10.1.1.3.1.1.10
softwareInstallDate	1.3.6.1.4.1.193.10.1.1.3.1.1.11
softwareFeatureCode	1.3.6.1.4.1.193.10.1.1.3.2
fileSystem	1.3.6.1.4.1.193.10.1.1.4
fsDiskTable	1.3.6.1.4.1.193.10.1.1.4.1
fsDiskEntry	1.3.6.1.4.1.193.10.1.1.4.1.1
fsDiskIndex	1.3.6.1.4.1.193.10.1.1.4.1.1.1
fsDiskVolumeName	1.3.6.1.4.1.193.10.1.1.4.1.1.2
fsDiskVolumeDescr	1.3.6.1.4.1.193.10.1.1.4.1.1.3
fsDiskMediaType	1.3.6.1.4.1.193.10.1.1.4.1.1.4
fsDiskAccess	1.3.6.1.4.1.193.10.1.1.4.1.1.5
fsDiskRemovable	1.3.6.1.4.1.193.10.1.1.4.1.1.6
fsDiskBlockSize	1.3.6.1.4.1.193.10.1.1.4.1.1.7
fsDiskTotalBlocks	1.3.6.1.4.1.193.10.1.1.4.1.1.8
fsDiskBlocksFree	1.3.6.1.4.1.193.10.1.1.4.1.1.9
fsDiskPercentBlocksUsed	1.3.6.1.4.1.193.10.1.1.4.1.1.10
fsDiskTotalInodes	1.3.6.1.4.1.193.10.1.1.4.1.1.11
fsDiskInodesFree	1.3.6.1.4.1.193.10.1.1.4.1.1.12
fsDiskPercentInodesUsed	1.3.6.1.4.1.193.10.1.1.4.1.1.13

3.1 IDENTITY GROUP

EDACS Network Element (NE) Identification Group is mandatory for all managed EDACS network elements.

OBJECT IDENTIFIER	SYNTAX	ACCESS	DESCRIPTION
identSysObjectID 1.3.6.1.4.1.193.10.1.1.1	EdacsProductID	read-only	The EDACS System Object Identification object instance provides authoritative identification of this managed EDACS network element. This value is assigned under the edacs (10).product (2) subtree of the ericsson (193) enterprise. This object provides an easy and unambiguous identification of what type of EDACS box this entity is associated with. This value will, typically, be identical to the sysObjectID object instance in the MIB-II system group. Note, however, that some EDACS entities may be managed using a third party agent which "hardcodes" the sysObjectID to a value assigned under that vendor's private enterprise naming authority. As such, the identSysObjectID is the preferred means by which to identify this EDACS entity.
identServiceNodeNumber 1.3.6.1.4.1.193.10.1.1.1.2	PositiveInteger32T	read-only	The administratively assigned number of the EDACS service node for which this entity is providing service.

Table 2 - Identity	Group	[1.3.6.1.4.1.193.10.1.1.1]
Table 2 - Identity	Oroup	

3.2 OPERATION GROUP

The Remote Operations Group is mandatory for all managed EDACS network elements.

Table 3 -	Operation	Group	[1.3.6.1.4.1.193.10.1.1.2]
Lablee	operation	Group	

OBJECT IDENTIFIER	SYNTAX	ACCESS			DESCRIPTION	
operDateAndTime 1.3.6.1.4.1.193.10.1.1.2.1	DateAndTime	read-write	The local date and time, as perceived by this management. Note, this date-time specification identical to the "DateAndTime" textual conversion presented in the host resources sub-group of MIB-			is managed cification is nversion as of MIB-II.
			This dat of repor	a type is inte ting date and	nded to provide a con time information.	sistent method
			field	octets	contents	range
			1	1-2	year	065535
					(in network byte ord	er)
			2	3	month	112
			3	4	day	131
			4	5	hour	023
			5	6	minutes	059
			6	7	seconds	060
					(use 60 for leap-seco	ond)
			7	8	deci-seconds	09
			8	9	direction from UTC	"+" or "-"
					(in ASCII notation)	
			9	10	hours from UTC	011
			10	11	minutes from UTC	059
			Note that information	at if only loca tion (fields 8	l time is known, then -10) is not present.	timezone

OBJECT IDENTIFIER	SYNTAX	ACCESS	DESCRIPTION
			If this information is not known, then this variable shall have the value corresponding to January 1, year 0000, 00:00:00.0, which is encoded as (hex) "00 00 01 01 00 00 00 00".
operRemoteReset 1.3.6.1.4.1.193.10.1.1.2.2	INTEGER supported (1) notSupported (2) inProgress (3) finalNotice (4) reset (5)	read-write	This object provides a common method to remotely reset any managed EDACS network element. The only value a management station may attempt to set is reset (5), which requests a full system reset of this entity. If the request is accepted by the agent, this object instance will transition to inProgress (3). The value inProgress (3) indicates that this entity is performing any housekeeping duties (disk synchronization, active call tear-down, etc.) associated with a graceful system shutdown. Note that the amount of time an entity remains in the inProgress (3) state is an implementation specific issue; a duration of several minutes is not uncommon. It is highly recommended that upon entering the inProgress (3) state, the agent return a "genErr" value for ANY further write operations attempted by a management station. After completion of any housekeeping duties, this value
			shall transition from inProgress (3) to finalNotice (4), which indicates that system reset is immediately imminent. At this point, no further network communications with the entity will be possible. This condition will exist until the entity completes re- initialization, which is typically announced via a coldStart (0) trap to the network management station(s).
operAnnounceReset 1.3.6.1.4.1.193.10.1.1.2.3	Boolean	read-write	This object controls the generation of traps for significant changes in state of the operRemoteReset object instance. A true (1) value indicates that traps will be generated. A false (2) value suppresses the generation of traps. It is recommended that this value be maintained in non- volatile storage, for consistency across system reboots." DEFVAL { 2 } false(2)
operRemoteStatus 1.3.6.1.4.1.193.10.1.1.2.4	INTEGER unknown(1) other(2) systemActive(3) systemShutdown(4) shutdownInProgress(5) shutdownComplete(6) activationInProgress(7) activationComplete(8)	read-write	This object provides a common mechanism to inspect and alter the operational state of this managed entity. This mechanism is useful for taking an entity in and out of normal, mission oriented, service (typically for trouble shooting purposes). systemActive 3) indicates that this entity is completely "on-line", with all mission operational parameters functioning within nominal parameters.
			systemShutdown (4) indicates that this entity is completely "off-line" (e.g. dormant, with regard to its normal mission requirements within an EDACS network infrastructure).
			shutdownInProgress (5) indicates that this entity is in transition towards a state of shutdownComplete (6), either at the request of a management station, or due to behavioral aspects of said entity. If an entity can not achieve shutdownComplete (6), it shall remain in the

OBJECT IDENTIFIER	SYNTAX	ACCESS	DESCRIPTION
			shutdownInProgress (5) state. shutdownComplete (6) indicates that this entity has performed any pre-shutdown processing, and is intending to immediately enter a (mission critical) dormant state. Note that this state is potentially transient in nature (e.g. an entity may, choose to transition directly from a shutdownInProgress(5) to that of systemShutdown (4)). activationInProgress (7) indicates that this entity is performing any processing required for an orderly transition from a systemShutdown (4) state to that of systemActive (3). activationComplete (8) indicates that this entity has completed any processing required for an attempt to transition to a state of systemActive (3). Note that this state is potentially transient in nature (e.g. an entity may, choose to transition from activationInProgress (7) directly to systemActive (3)). The only values a management station may attempt to set are systemActive (3) and systemShutdown (4). Note that placing an EDACS entity in the systemShutdown(4) shall not impact network communication services between the entity and network management stations.
operAnnounceStatus 1.3.6.1.4.1.193.10.1.1.2.5	Boolean	read-write	This object controls the generation of traps for significant changes in state of the operRemoteStatus object instance. A true (1) value indicates that traps will be generated. A false (2) value suppresses the generation of traps. It is recommended that this value be maintained in non- volatile storage, for consistency across system reboots." DEFVAL { 2 } false(2)

3.3 SOFTWARE GROUP

The EDACS Software Configuration Group provides a common mechanism for identifying the software components and features installed on this entity. This information is useful for identifying and inventorying software installed on an entity, and for diagnosing incompatibility and version mismatch problems between various pieces of software. Implementation of the software configuration group is mandatory for all managed EDACS network elements.

Table 4 - Software Group	[1.3.6.1.4.1.193.10.1.1.3]
--------------------------	----------------------------

OBJECT IDENTIFIER	SYNTAX	ACCESS	DESCRIPTION
softwareTable 1.3.6.1.4.1.193.10.1.1.3.1	SEQUENCE of SoftwareEntry	not- accessible	A (conceptual) table of the software components installed on this managed element.
softwareEntry 1.3.6.1.4.1.193.10.1.1.3.1.1	SoftwareEntry	not- accessible	A (conceptual) entry for a specific software component installed on this managed element.
softwareIndex 1.3.6.1.4.1.193.10.1.1.3.1.1.1	SoftwareIndexType	read-only	A unique value for each software component installed on this managed element. This value serves as an index to a particular entry in the softwareTable.
softwareType 1.3.6.1.4.1.193.10.1.1.3.1.1.2	INTEGER other(1) bootstrap(2) operatingSystem(3)	read-only	The functional type of this software component.

SYSTEM GENERAL GROUP

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OBJECT IDENTIFIER	SYNTAX	ACCESS	DESCRIPTION
	application(4) thirdParty(5)		
softwarePartNumber 1.3.6.1.4.1.193.10.1.1.3.1.1.3	DisplayString (SIZE (0128))	read-only	A textual string which provides the part number of this software component.
			By convention, this is the Software Media Kit part number, including the group number postfix (e.g. an identifier used by the customer to reference and/or order this specific software component). For example, "350A1103G2."
			If this software component is a member of a Software Media Kit containing multiple part numbers, the part number postfix shall be appended in the form of "-Px"; where "x" designates the specific part number. For example, "350A1103G2-P2" would indicate that this software component is identified as Part Number two (2) of the software media kit 350A1103G2."
softwareRevMajorID 1.3.6.1.4.1.193.10.1.1.3.1.1.4	INTEGER (065535)	read-only	The major revision number of this software component.
softwareRevMinorID 1.3.6.1.4.1.193.10.1.1.3.1.1.5	INTEGER (065535)	read-only	The minor revision number of this software component.
softwareTargetDevice 1.3.6.1.4.1.193.10.1.1.3.1.1.6	EdacsProductID	read-only	The product identification of the EDACS (sub)component(s) which execute this software component. This value will, typically, be the same as the identSysObjectID object instance. If this entity is acting as a load host, or proxy agent, for some other (sub)component, then this object instance may be used to identify that specific target device.
softwareDescription 1.3.6.1.4.1.193.10.1.1.3.1.1.7	DisplayString (SIZE (0255))	read-only	A textual string describing this software component. For example, "First incremental load segment of the Billing Correlation Unit/Centralized Activity Logger." This description should also include any applicable copyright or patent notice, as well as any (re)distribution restrictions or liabilities.
softwareExtraInfo 1.3.6.1.4.1.193.10.1.1.3.1.1.8	DisplayString (SIZE (0255))	read-only	A textual string providing any additional information describing this software component. For example, "Provided on exception release to customer ABC, for reasons XYZ."
			If the softwareType value for this component is thirdParty (5), then this variable shall provide the manufacturer, revision, and module name of this third party software component.
			This object instance will be a null (size 0) string if the agent does not have any additional information of interest regarding this software component.
softwarePath 1.3.6.1.4.1.193.10.1.1.3.1.1.9	DisplayString (SIZE(0128))	read-only	A fully qualified path specification identifying the location in long-term storage (e.g. a disk drive) where this software component is stored. For example, "1.2/loads/BCU.SX." This object instance shall contain a specification of "ROM" (or similarly designated identification) for a software component which is not stored on this entity's file system.
softwareStatus	INTEGER other (1)	read-only	The execution status of this software component.

OBJECT IDENTIFIER	SYNTAX	ACCESS	DESCRIPTION
1.3.6.1.4.1.193.10.1.1.3.1.1.10	unknown (2) running (3) runnable (4) notRunnable (5) notLoaded (6) targetProxied (7)		
softwareInstallDate 1.3.6.1.4.1.193.10.1.1.3.1.1.11	DateAndTime	read-only	The last-modification date of this software component as it would appear in a directory listing.
			If this information is not known, or not applicable (e.g. ROM resident), then this object instance shall have the value corresponding to January 1, year 0000, 00:00:00.0, which is encoded as (hex) "00 00 01 01 00 00 00 00".
softwareFeatureCode 1.3.6.1.4.1.193.10.1.1.3.2	OCTET STRING	read-write	An (encrypted) code which identifies any additional software features licensed for operation on this entity. Interpretation of the feature code requires examination of the relevant identSysObjectID object instance.
			Two disparate methods of encryption are enforced, both of which are solely proprietary to Ericsson, Inc., Private Radio Systems (PRS) division. For read operations, EDACS network management software is required to decrypt the code and provide identification of the installed feature set. Write operations are supported for remote upgrades in feature capability, under the restricted authority of Ericsson PRS software services.
			A prudent agent will recognize that repeated write attempts that fail decryption validation may indicate an unauthorized attempt to adjust this entity's software feature licensing.
			Customers should note that attempts to modify the feature code may result in this entity performing a "self- destruct" of any additional features provided by this entity. This self-destruct will not render the entity in- operable. It will, however, result in the entity assuming its baseline (minimal) operational configuration. Restoration of additional services will require consultation with Ericsson PRS software services personnel.

3.4 FILE SYSTEM GROUP

The EDACS File System Group provides a common mechanism for managing long-term data storage devices (such as disk drives, CD-ROM, etc.). Implementation of the mass storage group is mandatory for all managed EDACS network elements which contain mass storage devices.

OBJECT IDENTIFIER	SYNTAX	ACCESS	DESCRIPTION
fsDiskTable 1.3.6.1.4.1.193.10.1.1.4.1	SEQUENCE of DiskEntry	not- accessible	A (conceptual) table of disk oriented storage devices resident on this managed network element.
			Note that this table does not include disks which are accessed remotely over a network (e.g. NFS mounted).
fsDiskEntry 1.3.6.1.4.1.193.10.1.1.4.1.1	DiskEntry	not- accessible	A (conceptual) entry for each disk oriented storage device resident on this managed network element.
fsDiskIndex 1.3.6.1.4.1.193.10.1.1.4.1.1.1	DiskIndexType	read-only	A unique value for each disk oriented storage device. This value serves as an index to a particular entry in the fsDiskTable.
fsDiskVolumeName 1.3.6.1.4.1.193.10.1.1.4.1.1.2	DisplayString (SIZE (0255))	read-only	A textual string describing this disk device. By convention, this value is the same as the volume name used to identify this disk (e.g. file system component).
fsDiskVolumeDescr 1.3.6.1.4.1.193.10.1.1.4.1.1.3	DisplayString (SIZE (0255))	read-only	A textual string providing any available additional information regarding this disk. This value should provide information such as the vendor, model name and/or part number, and firmware version of this file system component. This value will be a null (size zero) string if the agent does not have any additional information available regarding this disk.
fsDiskMediaType 1.3.6.1.4.1.193.10.1.1.4.1.1.4	INTEGER other(1) unknown(2) hardDisk(3) floppyDisk(4) ramDisk(5) opticalDiskCDROM(6) opticalDiskWORM(7) opticalDiskRW(8)	read-only	An indication of the type of media used by this disk.
fsDiskAccess 1.3.6.1.4.1.193.10.1.1.4.1.1.5	INTEGER readWrite(1) readOnly(2) writeOnly(3)	read-only	An indication of the access mode currently in force for this disk. This should reflect the media type, any write-protect mechanism, and any device configuration that affects the entire disk device accessibility.
fsDiskRemovable 1.3.6.1.4.1.193.10.1.1.4.1.1.6	INTEGER removable(1) notRemovable(2)	read-only	Denotes whether or not the disk media may be removed from the drive.
fsDiskBlockSize 1.3.6.1.4.1.193.10.1.1.4.1.1.7	PositiveInteger32T	read-only	The fundamental block size, in bytes (octets), of this disk.
fsDiskTotalBlocks 1.3.6.1.4.1.193.10.1.1.4.1.1.8	PositiveInteger32T	read-only	The total number of blocks which this disk provides for long-term storage. Note that the fundamental size of each block is specified by the fsDiskBlockSize object

Table 5 - File System Group [1.3.6.1.4.1.193.10.1.1.4]

OBJECT IDENTIFIER	SYNTAX	ACCESS	DESCRIPTION
			instance.
fsDiskBlocksFree 1.3.6.1.4.1.193.10.1.1.4.1.1.9	PositiveInteger32T	read-only	The total number of blocks on this disk which are currently available. Note that the fundamental size of each block is specified by the fsDiskBlockSize object instance.
fsDiskPercentBlocksUsed 1.3.6.1.4.1.193.10.1.1.4.1.1.10	PercentDiskUsed	read-only	The (coarse) percentage of disk storage capacity, with regard to blocks, which has been consumed.
			Note that this value may be more accurately calculated from the fsDiskTotalBlocks and fsDiskBlocksFree object instances. This value is intended to provide network management stations with a convenient object instance for monitoring disk utilization.
fsDiskTotalInodes 1.3.6.1.4.1.193.10.1.1.4.1.1.11	PositiveInteger32T	read-only	The total number of file descriptors/inodes (e.g. ordinary files, directories, links, etc.) which this disk provides for long-term storage.
			This value will always be zero for disks which are part of a file system that does not implement the concept of an inode.
fsDiskInodesFree 1.3.6.1.4.1.193.10.1.1.4.1.1.12	PositiveInteger32T	read-only	The total number of file descriptors/inodes (e.g. ordinary files, directories, links, etc.) which are currently available.
			This value will always be zero for disks which are part of a file system that does not implement the concept of an inode.
fsDiskPercentInodesUsed 1.3.6.1.4.1.193.10.1.1.4.1.1.13	PercentDiskUsed	read-only	The (coarse) percentage of disk storage capacity, with regard to file descriptors/inodes, which has been consumed.
			Note that this value may be more accurately calculated from the fsDiskTotalInodes and fsDiskInodesFree object instances. This value is intended to provide network management stations with a convenient object instance for monitoring disk utilization.
			This value will always be zero for disks which are part of a file system that does not implement the concept of an inode.

4. SYSTEM SNMP GROUP

The System SNMP Group (2) is a sub branch of the System Node. The SNMP Group is included and detailed in the Common MIB file "edacs101.mib" located in Appendix A.

The graphical representation in Figure 7 shows the primary branches in the EDACS System SNMP Group.



Figure 7 - EDACS System SNMP Group

The following summarizes the items currently identified under the snmp (2) branch.

trap	1.3.6.1.4.1.193.10.1.2.1	
trapSequenceNumber	1.3.6.1.4.1.193.10.1.2.1.1	
trapDestination	1.3.6.1.4.1.193.10.1.2.1.2	
trapDestinationNumber	1.3.6.1.4.1.193.10.1.2.1.2.1	
trapDestinationTable	1.3.6.1.4.1.193.10.1.2.1.2.2	
trapDestinationEntry	1.3.6.1.4.1.193.10.1.2.1.2.2.1	
trapDestinationAddr	1.3.6.1.4.1.193.10.1.2.1.2.2.1.1	
trapHistory	1.3.6.1.4.1.193.10.1.2.1.3	
trapSentTable	1.3.6.1.4.1.193.10.1.2.1.3.1	
trapSentEntry	1.3.6.1.4.1.193.10.1.2.1.3.1.1	
trapSentIpAddress	1.3.6.1.4.1.193.10.1.2.1.3.1.1.1	
trapSentSeqNumber	1.3.6.1.4.1.193.10.1.2.1.3.1.1.2	
trapSentTime	1.3.6.1.4.1.193.10.1.2.1.3.1.1.3	
trapSentGeneric	1.3.6.1.4.1.193.10.1.2.1.3.1.1.4	
trapSentSpecific	1.3.6.1.4.1.193.10.1.2.1.3.1.1.5	
trapSentVblItems	1.3.6.1.4.1.193.10.1.2.1.3.1.1.6	

SYSTEM SNMP GROUP

authentication	1.3.6.1.4.1.193.10.1.2.2
authFailTable	1.3.6.1.4.1.193.10.1.2.2.1
authFailEntry	1.3.6.1.4.1.193.10.1.2.2.1.1
authFailIpAddress	1.3.6.1.4.1.193.10.1.2.2.1.1.1
authFailTime	1.3.6.1.4.1.193.10.1.2.2.1.1.2
authFailCommunityName	1.3.6.1.4.1.193.10.1.2.2.1.1.3

4.1 SNMP TRAP GROUP

4.1.1 SNMP Trap Sequence Number Group

Table 6 - Trap Sequence Number Group [1.3.6.1.4.1.193.10.1.2.2.1]

OBJECT IDENTIFIER	SYNTAX	ACCESS	DESCRIPTION
trapSequenceNumber 1.3.6.1.4.1.193.10.1.2.1.1	Counter	read-only	The sequence number used in the most recent trap packet(s) which this entity has sent. This counter is incremented each time a particular trap type is sent to one, or more, network management stations.

4.1.2 SNMP Trap Destination Group

The Trap Destination Group is mandatory for all managed EDACS network elements.

Table 7 - Tra	p Destination	Group [1.3	3.6.1.4.1.193	5.10.1.2.1.2]
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OBJECT IDENTIFIER	SYNTAX	ACCESS	DESCRIPTION
trapDestinationNumber 1.3.6.1.4.1.193.10.1.2.1.2.1	Gauge	read-only	The number of trap destinations in affect for this agent. Note that this variable corresponds to the number of "valid" entries in the trapDestinationTable, and may not directly reflect the actual size of said table.
trapDestinationTable 1.3.6.1.4.1.193.10.1.2.1.2.2	SEQUENCE of TrapDestinationEntry	not- accessible	A (conceptual) table which lists the (NMS) network addresses to which this agent will send traps.
			Note that most agents will implement this table with a fixed maximum number of entries, as opposed to employing dynamic row create and delete operations. Accordingly, management stations must be prepared to receive tabular entries not associated with a valid network address. By convention, an IP address of either 0.0.0.0 or 255.225.255.255 is used to delineate such an address.
trapDestinationEntry 1.3.6.1.4.1.193.10.1.2.1.2.2.1	TrapDestinationEntry	not- accessible	Each (conceptual) entry contains the network address of a management station to which traps will be sent.
trapDestinationAddr 1.3.6.1.4.1.193.10.1.2.1.2.2.1.1	IpAddress	read-write	A network address to which this agent will send traps. Setting this value to an IP address of either 0.0.0.0 or 255.225.255.255 effectively invalidates this entry (e.g. the agent shall never attempt to send a trap to either of these two addresses). It is an implementation-specific matter as to whether the agent removes an invalidated entry from the table, or simply replaces said entry with the invalid address. A prudent agent should return a "badValue" if an

OBJECT IDENTIFIER	SYNTAX	ACCESS	DESCRIPTION
			attempt is made to set the destination to the same value as the agents network address. It is further recommended that the agent reject any destination to which no network route is currently known.

4.1.3 SNMP Trap History Group

Implementation of the Trap History Group is optional, buy strongly recommended.

Table 8 - Trap History Group [1.3.6.1.4.1.193.10.1.2.1.3]

OBJECT IDENTIFIER	SYNTAX	ACCESS	DESCRIPTION
trapSentTable 1.3.6.1.4.1.193.10.1.2.1.3.1	SEQUENCE of TrapSentEntry	not- accessible	A (conceptual) table which provides a list of the traps most recently sent to some network management station(s).
trapSentEntry 1.3.6.1.4.1.193.10.1.2.1.3.1.1	TrapSentEntry	not- accessible	A (conceptual) entry in the trapSentTable. Each conceptual row describes the last trap packet sent to a specific network management station.
trapSentIpAddress 1.3.6.1.4.1.193.10.1.2.1.3.1.1.1	IpAddress	read-only	The network (IP) address of a network management station to which this entity has last sent a trap.
trapSentSeqNumber 1.3.6.1.4.1.193.10.1.2.1.3.1.1.2	Counter	read-only	The sequence number of the trap packet used when this entity sent the trap to this network management station.
trapSentTime 1.3.6.1.4.1.193.10.1.2.1.3.1.1.3	TimeTicks	read-only	The value of sysUpTime when the trap was sent to this network management station.
trapSentGeneric 1.3.6.1.4.1.193.10.1.2.1.3.1.1.4	INTEGER other(1), None of the following, which is an error. coldStart(2) warmStart(3) linkUp(4) linkDown(5) authenticationFailure(6) egpNeighborLoss(7) enterpriseSpecific(8)	read-only	The "generic-trap" code value of the trap sent to this network management station.
trapSentSpecific 1.3.6.1.4.1.193.10.1.2.1.3.1.1.5	INTEGER	read-only	The "specific-trap" code value of the trap sent to this network management station.
trapSentVblItems 1.3.6.1.4.1.193.10.1.2.1.3.1.1.6	INTEGER	read-only	The number of Variable Binding List (VBL) items contained in the trap sent to this network management station.

4.1.4 SNMP Trap Definitions

TRAP TYPE	ENTERPRISE	VARIABLES	DESCRIPTION
operResetEventTrap	edacs	trapSequenceNumber, operRemoteReset	An indication that the sending entity is in the process of performing a complete system reset. The operRemoteReset object instance contains the current state of the reset process, which will (typically) be either inProgress (3) or finalNotice (4).
operStatusEventTrap	edacs	trapSequenceNumber, operRemoteReset	An indication that the sending entity has detected a significant change in its operational status. The operRemoteStatus object instance contains the current operational state.

 Table 9 - SNMP Trap Definitions

4.2 SNMP AUTHENTICATION GROUP

4.2.1 SNMPv1 Authentication Failure History Group

Implementation of the Authentication Failure Trap History Group is optional, buy strongly recommended.

OBJECT IDENTIFIER	SYNTAX	ACCESS	DESCRIPTION
authFailTable 1.3.6.1.4.1.193.10.1.2.2.1	SEQUENCE of AuthFailEntry	not- accessible	A (conceptual) table which provides a list of network management stations that have caused an SNMPv1 authentication failure in an attempt to access this entity.
authFailEntry 1.3.6.1.4.1.193.10.1.2.2.1.1	AuthFailEntry	not- accessible	A (conceptual) entry in the authentication failure table. Each entry contains, and is indexed by, the IP address of the management station which caused the authentication failure.
authFailIpAddress 1.3.6.1.4.1.193.10.1.2.2.1.1.1	IpAddress	read-only	The IP address of the management station that sent a request to this agent with an incorrect community name.
authFailTime 1.3.6.1.4.1.193.10.1.2.2.1.1.2	TimeTicks	read-only	The value of sysUpTime when this entity received the un-authenticated request.
authFailCommunityName 1.3.6.1.4.1.193.10.1.2.2.1.1.3	OCTET STRING	read-only	The community name used in the failed request.

Table 10 - Trap Authentication Group [1.3.6.1.4.1.193.10.1.2.2]

5. SYSTEM ALARM GROUP

5.1 EDACS ALARM-THRESHOLD MIB

The EDACS Alarm-Threshold MIB provides a flexible method for Network Management Station(s) (NMS) to control the sampling of any integer SNMP object on an EDACS server-agent. The periodic samples are compared to a user configurable set of threshold values. If a sample crosses a threshold, an event will be generated. This event may be configured to result in the generation of an SNMP TRAP to one or more NMS. The variables contained in the TRAP PDU are manifested at the end of this document. Only variables that resolve to an ASN.1 primitive type of INTEGER (INTEGER, Counter, Gauge, or TimeTicks) may be monitored with this MIB.

Two methods of sampling a selected variable are supported, which control calculating the value to be compared against the thresholds (see alarmThreshSampleType). The absoluteValue (1) specifies that the value of the selected variable will be compared directly with the thresholds at the end of the sampling interval. The deltaValue (2) specifies that the value of the selected variable at the last sample will be subtracted from the current value, and the difference compared with the thresholds.

It should be noted that deltaValue (2) sampling has the potential to generate a large number of rising and falling threshold crossings in a short period of time. The sample time and threshold values should be chosen to avoid this problem. Also this simple threshold method may not catch changes that occur across sample boundaries. This effect can be minimized by reducing the sample interval.

The Alarm-Threshold function has a hysteresis mechanism to limit the generation of events. This mechanism generates one event as a threshold is crossed in the appropriate direction. No more events are generated for that threshold until the opposite threshold is crossed.

The Alarm-Threshold MIB employs two disparate notions of alarm entry "ownership", which govern NMS abilities to SET certain aspects of said alarm entries (see alarmThreshOwner). Specifically, one set of alarm entries are owned by the server-agent resident on this entity, which are responsible for monitoring certain mission critical variables. A second set of



Figure 8 - EDACS Alarm Threshold Group

alarm variable(s) may be imposed upon the target entity, on behalf of an NMS, for monitoring variables deemed of significance to the end user. All EDACS network elements which provide alarming of threshold oriented conditions shall adhere their implementation to this MIB.

Detailed information on the Alarm-Threshold MIB in contained in the MIB file "edacs102.mib" located in Appendix A.

The graphic representation in Figure 8 shows the primary branches in the EDACS Alarm Group.

The following summarizes the items currently identified under the alarmThreshold (1) branch.

alarmThreshold	1.3.6.1.4.1.193.10.1.3.1
alarmThreshNextIndex	1.3.6.1.4.1.193.10.1.3.1.1
alarmThreshMinInterval	1.3.6.1.4.1.193.10.1.3.1.2
alarmThreshDefaultInterval	1.3.6.1.4.1.193.10.1.3.1.3
alarmThreshTable	1.3.6.1.4.1.193.10.1.3.1.4
alarmThreshEntry	1.3.6.1.4.1.193.10.1.3.1.4.1
alarmThreshIndex	1.3.6.1.4.1.193.10.1.3.1.4.1.1
alarmThreshStatus	1.3.6.1.4.1.193.10.1.3.1.4.1.2
alarmThreshOwner	1.3.6.1.4.1.193.10.1.3.1.4.1.3
alarmThreshVariable	1.3.6.1.4.1.193.10.1.3.1.4.1.4
alarmThreshSampleType	1.3.6.1.4.1.193.10.1.3.1.4.1.5
alarmThreshValue	1.3.6.1.4.1.193.10.1.3.1.4.1.6
alarmThreshLastTimeSampled	1.3.6.1.4.1.193.10.1.3.1.4.1.7
alarmThreshInterval	1.3.6.1.4.1.193.10.1.3.1.4.1.8
alarmThreshPermanence	1.3.6.1.4.1.193.10.1.3.1.4.1.9
alarmThreshStartupAlarm	1.3.6.1.4.1.193.10.1.3.1.4.1.10
alarmThreshRisingThreshold	1.3.6.1.4.1.193.10.1.3.1.4.1.11
alarmThreshFallingThreshold	1.3.6.1.4.1.193.10.1.3.1.4.1.12
alarmThreshRisingDescription	1.3.6.1.4.1.193.10.1.3.1.4.1.13
alarmThreshFallingDescription	1.3.6.1.4.1.193.10.1.3.1.4.1.14
alarmThreshNotifyThisNMS	1.3.6.1.4.1.193.10.1.3.1.4.1.15
alarmThreshLastRisingSent	1.3.6.1.4.1.193.10.1.3.1.4.1.16
alarmThreshLastFallingSent	1.3.6.1.4.1.193.10.1.3.1.4.1.17

5.2 SYSTEM ALARM THRESHOLD GROUP

OBJECT IDENTIFIER	SYNTAX	ACCESS	DESCRIPTION
alarmThreshNextIndex 1.3.6.1.4.1.193.10.1.3.1.1	INTEGER (165535)	read-only	The index of the next available entry in the alarm threshold table. If the maximum number of entries to the alarm table has been reached, this index will contain -1.
alarmThreshMinInterval 1.3.6.1.4.1.193.10.1.3.1.2	TimeTicks	read-only	The minimum sampling interval that this agent can support. Any attempt to set alarmThreshInterval to a shorter interval will result in a "badValue" response.

Table 11 - System Alarm Threshold Group [1.3.6.1.4.1.193.10.1.3.1]

OBJECT IDENTIFIER	SYNTAX	ACCESS	DESCRIPTION
alarmThreshNextIndex 1.3.6.1.4.1.193.10.1.3.1.1	INTEGER (165535)	read-only	The index of the next available entry in the alarm threshold table. If the maximum number of entries to the alarm table has been reached, this index will contain -1.
alarmThreshDefaultInterval 1.3.6.1.4.1.193.10.1.3.1.3	TimeTicks	read-write	The default sampling interval. This value will be used as the default value for alarmThreshInterval when a new alarmThreshEntry is created. This value may not be set lower than alarmThreshMinInterval.
alarmThreshTable 1.3.6.1.4.1.193.10.1.3.1.4	SEQUENCE OF AlarmThreshEntry	not- accessible	A (conceptual) table which contains a list of alarm threshold entries maintained on this entity.

5.3 ALARM THRESHOLD TABLE

ODUCT			
IDENTIFIER	SYNTAX	ACCESS	DESCRIPTION
alarmThreshEntry 1.3.6.1.4.1.193.10.1.3.1.4.1	AlarmThreshEntry	not- accessible	A (conceptual) entry in the alarmThreshTable. Each entry contains a list of parameters that set up a periodic checking for alarm threshold conditions.
alarmThreshIndex 1.3.6.1.4.1.193.10.1.3.1.4.1.1	INTEGER (165535)	read-only	An index that uniquely identifies an entry in the alarm table. Each such entry defines a diagnostic sample at a particular interval for an object on the device.
alarmThreshStatus 1.3.6.1.4.1.193.10.1.3.1.4.1.2	INTEGER enabled(1) disabled(2) createRequest(3) underCreation(4) tempUnavailable(6)	read-write	The status of this alarm entry. Setting this object to the value enabled (1) has the effect of initiating monitoring according to the value of alarmThreshSampleType. It also enables the generation of rising and falling traps as specified by alarmThreshRisingThreshold and alarmThreshFallingThreshold. While this object has a status of enabled (1) none of the object s monitoring parameters may be changed. Any attempt to change one of these parameters will return badValue.
			Setting this object to the value disable (2) disables all variable monitoring and trap generation. It is used to temporarily disable an alarm, or to make changes in the monitoring parameters that cannot be done while the object is enabled (1). An existing instance of this object cannot be set to createRequest (3). A new object can be created using an index obtained from alarmThreshNextIndex and setting the object to the value createRequest (3). When this object is created, the agent may wish to create supplemental object instances to complete a conceptual row in this table. Immediately after completing the create operation, the agent must set this object to underCreation (4). Entries shall exist in the underCreation (4) state until the management station is finished configuring the entry and sets this object to enabled (1), disabled (2), or aborts the entry by setting this object to deleteRequest (5). The agent will deny a request to modify an underCreation (4) entry to be that of createRequest (3) in order to lessen problems arising

Table 12 - Alarm Threshold Table [1.3.6.1.4.1.193.10.1.3.1.4]

OBJECT IDENTIFIER	SYNTAX	ACCESS	DESCRIPTION
			when multiple management stations may be trying to add an entry with the same index. If the agent determines that an entry has been in the underCreation (4) state for an abnormally long time, it may decide that the management station has crashed. If the agent makes this decision, it may delete the object to reclaim the entry. A prudent agent will understand that the management station may need to wait for human input and will allow for that possibility in its determination of this abnormally long period.
			Setting this object to the value deleteRequest (5) will remove the entry from the table. If the agent has an entry which is enabled (1) and it is unable to query the particular ASN.1 object specified, the agent should set the status to tempUnavailable (6). The agent should continue to query that ASN.1 object, and upon a successful query, the agent should set the status back to enabled (1). If the sample type is deltaValue (2), the value of alarmThreshValue will be set to 0 (No trap will be generated.) and delta sampling will begin again at the end of the next sample interval.
alarmThreshOwner 1.3.6.1.4.1.193.10.1.3.1.4.1.3	DisplayString (SIZE (0127))	read-write	The entity that configured this entry and is therefore using the resources assigned to it. This string is used to model an administratively assigned name of the owner of a resource. This information is taken from the NVT ASCII character set. It is suggested that this name contain one or more of the following:
			IP address, management station name, network manager's name, location, or phone number.
			In some cases the agent itself will be the owner of an entry. In these cases, this string shall be set to a string starting with "monitor". SNMP access control is articulated entirely in terms of the contents of MIB views; access to a particular SNMP object instance depends only upon its presence or absence in a particular MIB view and never upon its value or the value of related object instances. Thus, objects of this type afford resolution of resource contention only among cooperating managers; they realize no access control function with respect to uncooperative parties.
alarmThreshVariable 1.3.6.1.4.1.193.10.1.3.1.4.1.4	OBJECT IDENTIFIER	read-write	The object identifier of the particular variable to be sampled. Only variables that resolve to an ASN.1 primitive type of INTEGER (INTEGER, Counter, Gauge, or TimeTicks) may be sampled.
			Because SNMP access control is articulated entirely in terms of the contents of MIB views, no access control mechanism exists that can restrict the value of this object to identify only those objects that exist in a particular MIB view. Because there is thus no acceptable means of restricting the read access that could be obtained through the alarm mechanism, the agent must only grant write access to this object in those views that have read access to all objects on the agent. During a set operation, if the supplied variable name is

OBJECT IDENTIFIER	SYNTAX	ACCESS	DESCRIPTION
			not available in the selected MIB view, a badValue error must be returned. If at any time the variable name of an established alarmThreshEntry is no longer available in the selected MIB view, the agent must change the status of this alarmThreshEntry to tempUnavailable (6).
			This object may not be modified if the associated alarmThreshStatus object is equal to enabled (1).
alarmThreshSampleType 1.3.6.1.4.1.193.10.1.3.1.4.1.5	INTEGER absoluteValue(1) deltaValue(2)	read-write	The method of sampling the selected variable and calculating the value to be compared against the thresholds. If the value of this object is absoluteValue (1), the value of the selected variable will be compared directly with the thresholds at the end of the sampling interval. If the value of this object is deltaValue (2), the value of the selected variable at the last sample will be subtracted from the current value, and the difference compared with the thresholds.
			This object may not be modified if the associated alarmThreshStatus object is equal to enabled (1).
alarmThreshValue 1.3.6.1.4.1.193.10.1.3.1.4.1.6	INTEGER	read-only	The value of the object identifier (alarmThreshVariable) during the last sampling period. The value during the current sampling period is not made available until the period is completed.
			If the sample type (alarmThreshSampleType) is absoluteValue (1), the value (alarmThreshValue) should become the actual value obtained during this sampling period.
			If the sample type (alarmThreshSampleType) is deltaValue (2), the value (alarmThreshValue) will be 0 when the entry's status is first set to enabled (1). However, this will NOT generate any traps (even if the falling threshold is greater than 0.) The value (alarmThreshValue) should become the most recently sampled value minus the previous sample.
alarmThreshLastTimeSampled 1.3.6.1.4.1.193.10.1.3.1.4.1.7	TimeTicks	read-only	The value of sysUpTime at which the current value of alarmThreshValue was sampled.
alarmThreshInterval 1.3.6.1.4.1.193.10.1.3.1.4.1.8	TimeTicks	read-write	The interval in TimeTicks over which the data is sampled and compared with the rising and falling thresholds. When setting this variable, care should be given to ensure that the variable being monitored will not exceed 2^31 - 1 and roll over the alarmThreshValue object during the interval. This value may not be set less than the value of alarmThreshMinInterval. The first sample will be taken immediately upon the
			alarmThreshStatus being set to enabled (1). This object may not be modified if the associated
alarmThreshPermanence	INTEGER	read-write	alarm ThreshStatus object is equal to enabled (1). The storage method for this entry.
1.3.6.1.4.1.193.10.1.3.1.4.1.9	temporary(1) permanent(2)		If set to temporary (1) this entry will be stored only in volatile memory and may be deleted if the network management system is re-initialized.
			If set to permanent (2) this entry will be stored in some

OBJECT IDENTIFIER	SYNTAX	ACCESS	DESCRIPTION
			form of non-volatile storage and will be maintained between re-initializations of the network management system. NOTE: A re-initialization may have the same effect as setting enabled (1) entries to disabled (2) and then setting them back to enabled (1). In particular the values of alarmThreshLastTimeSampled, alarmThreshLastRisingSent, and alarmThreshLastFallingSent will be reset.
alarmThreshStartupAlarm 1.3.6.1.4.1.193.10.1.3.1.4.1.10	INTEGER risingAlarm(1) fallingAlarm(2) risingOrFallingAlarm(3)	read-write	The alarm that may be sent when this entry is first set to enabled (1). If the sample type (alarmThreshSampleType) is absoluteValue (1), then the following comparison is used to generate an event. If alarmThreshStartupAlarm is equal to risingAlarm (1) or risingOrFallingAlarm (3), then a single event will be generated if the first sample after this entry becomes enabled is greater than or equal to this threshold. If alarmThreshStartupAlarm is equal to fallingAlarm (2) or risingOrFallingAlarm (3), then a single event will be generated if the first sample after this entry becomes enabled is less than or equal to this threshold.
			If the first sample after this entry becomes enabled is greater than or equal to the rising threshold and alarmThreshStartupAlarm is equal to risingAlarm (1) or risingOrFallingAlarm (3), then a single rising alarm will be generated. If the first sample after this entry becomes enabled is less than or equal to the falling threshold and alarmThreshStartupAlarm is equal to fallingAlarm (2) or risingOrFallingAlarm (3), then a single falling alarm will be generated. This object may not be modified if the associated
alarmThreshRisingThreshold	INTEGER	read-write	alarmThreshStatus object is equal to enabled(1). A threshold for the sampled object identifier
1.3.6.1.4.1.193.10.1.3.1.4.1.11			(alarmThreshVariable). If the sample type (alarmThreshSampleType) is absoluteValue (1), then the following describes the comparison. When the current sampled value is greater than or equal to this threshold, and the value (alarmThreshValue) at the last sampling interval was less than this threshold, a single event will be generated.
			If alarmThreshStartupAlarm is equal to risingAlarm (1) or risingOrFallingAlarm (3), then a single event will be generated if the first sample after this entry becomes enabled is greater than or equal to this threshold.
			After a rising event is generated, another such event will not be generated until the sampled value falls below this threshold and reaches the falling threshold (alarmThreshFallingThreshold).
			If the sample type (alarmThreshSampleType) is deltaValue (2), then the following describes the comparison. When the most recently sampled value minus the previous sampled value is greater than or equal to the threshold (alarmThreshRisingThreshold), and the current alarm value (alarmThreshValue) is less than the threshold value (alarmThreshRisingThreshold)

SYSTEM ALARM GROUP

OBJECT IDENTIFIER	SYNTAX	ACCESS	DESCRIPTION
			a single event will be generated. After a rising event is generated, another such event will not be generated until the most recently sampled value minus the previous sampled value falls below this threshold (alarmThreshRisingThreshold) and reaches the falling threshold (alarmThreshFallingThreshold).
			This object may not be modified if the associated alarmThreshStatus object is equal to enabled(1).
alarmThreshFallingThreshold 1.3.6.1.4.1.193.10.1.3.1.4.1.12	INTEGER	read-write	A threshold for the sampled object identifier (alarmThreshVariable).
			If the sample type (alarmThreshSampleType) is absoluteValue (1), then the following describes the comparison. When the current sampled value is less than or equal to this threshold, and the value (alarmThreshValue) at the last sampling interval was greater than this threshold, a single event will be generated. If alarmThreshStartupAlarm is equal to fallingAlarm (2) or risingOrFallingAlarm (3), then a single event will be generated if the first sample after this entry becomes enabled is less than or equal to this threshold. After a falling event is generated, another such event will not be generated until the sampled value rises above this threshold and reaches the rising threshold (alarmThreshRisingThreshold). If the sample type (alarmThreshSampleType) is deltaValue (2), then the following describes the comparison. When the most recently sampled value minus the previous sampled value is less than or equal
			minus the previous sampled value is less than or equal to the threshold (alarmThreshFallingThreshold), and the current alarm value (alarmThreshValue) is greater than the threshold value (alarmThreshFallingThreshold) a single event will be generated. After a falling event is generated, another such event will not be generated until the most recently sampled value minus the previous sampled value rises above this threshold (alarmThreshFallingThreshold) and reaches the rising threshold (alarmThreshRisingThreshold). This object may not be modified if the associated alarmThreshStatus object is equal to enabled (1).
alarmThreshRisingDescription 1.3.6.1.4.1.193.10.1.3.1.4.1.13	DisplayString (SIZE (0255))	read-write	A description of the rising alarm.
alarmThreshFallingDescription 1.3.6.1.4.1.193.10.1.3.1.4.1.14	DisplayString (SIZE (0255))	read-write	A description of the falling alarm.
alarmThreshNotifyThisNMS 1.3.6.1.4.1.193.10.1.3.1.4.1.15	IpAddress	read-write	The IP address of the network management station that desires notification of any threshold crossings. If set to 0.0.0.0, the agent will send threshold traps to all network management stations which have an entry in this entity's trapDestinationTable.
alarmThreshLastRisingSent 1.3.6.1.4.1.193.10.1.3.1.4.1.16	TimeTicks	read-only	The value of sysUpTime at the time this alarm entry last generated a rising threshold event which resulting in the sending of an SNMP TRAP to one or more NMS. If this entry has not generated any such events, this value

OBJECT IDENTIFIER	SYNTAX	ACCESS	DESCRIPTION
			will be zero.
alarmThreshLastFallingSent 1.3.6.1.4.1.193.10.1.3.1.4.1.17	TimeTicks	read-only	The value of sysUpTime at the time this alarm entry last generated a falling threshold event which resulting in the sending of an SNMP TRAP to one or more NMS. If this entry has not generated any such events, this value will be zero.

5.4 ALARM THRESHOLD TRAP DEFINITIONS

TRAP TYPE	ENTERPRISE	VARIABLES	DESCRIPTION
alarmRisingThresholdTrap	edacs	trapSequenceNumber alarmThreshVariable alarmThreshSampleType alarmThreshValue alarmThreshRisingThreshold alarmThreshOwner alarmThreshIndex	Rising Threshold passed. An alarm entry has crossed its rising threshold. The instances of those objects contained within the variable list are those of the alarm entry which generated this trap.
alarmFallingThresholdTrap	edacs	trapSequenceNumber alarmThreshVariable alarmThreshSampleType alarmThreshValue alarmThreshFallingThreshold alarmThreshOwner alarmThreshIndex	Falling Threshold passed. An alarm entry has crossed its falling threshold. The instances of those objects contained within the variable list are those of the alarm entry which generated this trap.

Table 13 - Alarm Threshold Trap Definitions

6. SYSTEM SITE GROUP

6.1 SYSTEM SITE LEVEL PERFORMANCE MIB

This MIB specifies performance information available at the EDACS Site Level. Detailed information on the Alarm-Threshold MIB in contained in the MIB file "edacs102.mib" located in Appendix A.

The graphical representation in Figure 9 shows the primary branches in the EDACS Site Performance Group.



Figure 9 - EDACS Site Performance Group

Each *item* is a conceptual columnar component of the antecedent site performance table. The instance identifier x specifies the actual number of the EDACS site (e.g. a conceptual row in the table).

The following summarizes the items currently identified under the sitePerformance (2) branch. Please refer to the MIB file "edacs103.mib" for detailed information.

site		1 2 6 1 4 1 102 10 1 4
site		1.5.0.1.4.1.195.10.1.4
siteConfig	g	1.3.6.1.4.1.193.10.1.4.1
siteT	opology	1.3.6.1.4.1.193.10.1.4.1.1
sitePerfor	mance	1.3.6.1.4.1.193.10.1.4.2
Performance <i>items</i> in the	he siteTotalTable:	
siteT	otalTable	1.3.6.1.4.1.193.10.1.4.2.1
S	siteTotalEntry	1.3.6.1.4.1.193.10.1.4.2.1.1
	siteTotalNumber	1.3.6.1.4.1.193.10.1.4.2.1.1.1
	siteTotalEntityID	1.3.6.1.4.1.193.10.1.4.2.1.1.2
	siteTotalMibExtension	1.3.6.1.4.1.193.10.1.4.2.1.1.3
	siteTotalSampleInterval	1.3.6.1.4.1.193.10.1.4.2.1.1.4
	siteTotalAssigned	1.3.6.1.4.1.193.10.1.4.2.1.1.5
	siteTotalAssignedEmergencies	1.3.6.1.4.1.193.10.1.4.2.1.1.6
	siteTotalAssignedSecondary	1.3.6.1.4.1.193.10.1.4.2.1.1.7
	siteTotalAssignedMsgTrunked	1.3.6.1.4.1.193.10.1.4.2.1.1.8

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siteTotalDropped	1.3.6.1.4.1.193.10.1.4.2.1.1.9
siteTotalQueued	1.3.6.1.4.1.193.10.1.4.2.1.1.10
siteTotalDenied	1.3.6.1.4.1.193.10.1.4.2.1.1.11
siteTotalSysBusy	1.3.6.1.4.1.193.10.1.4.2.1.1.12
siteTotalChanKeys	1.3.6.1.4.1.193.10.1.4.2.1.1.13
siteTotalChanUnKeys	1.3.6.1.4.1.193.10.1.4.2.1.1.14
siteTotalCktTime	1.3.6.1.4.1.193.10.1.4.2.1.1.15
siteTotalCktQTime	1.3.6.1.4.1.193.10.1.4.2.1.1.16
Performance <i>items</i> in the siteAccessTable:	
siteAccessTable	1.3.6.1.4.1.193.10.1.4.2.2
siteAccessEntry	1.3.6.1.4.1.193.10.1.4.2.2.1
siteAccessNumber	1.3.6.1.4.1.193.10.1.4.2.2.1.1
siteAccessEntityID	1.3.6.1.4.1.193.10.1.4.2.2.1.2
siteAccessMibExtension	1.3.6.1.4.1.193.10.1.4.2.2.1.3
siteAccessSampleInterval	1.3.6.1.4.1.193.10.1.4.2.2.1.4
siteAssignedIndivVoice	1.3.6.1.4.1.193.10.1.4.2.2.1.5
siteAssignedGroupVoice	1.3.6.1.4.1.193.10.1.4.2.2.1.6
siteAssignedIndivData	1.3.6.1.4.1.193.10.1.4.2.2.1.7
siteAssignedGroupData	1.3.6.1.4.1.193.10.1.4.2.2.1.8
siteAssignedIndivOutboundTelephony	1.3.6.1.4.1.193.10.1.4.2.2.1.9
siteAssignedIndivInboundTelephony	1.3.6.1.4.1.193.10.1.4.2.2.1.10
siteAssignedGroupInboundTelephony	1.3.6.1.4.1.193.10.1.4.2.2.1.11
siteAssignedOther	1.3.6.1.4.1.193.10.1.4.2.2.1.12
siteQueuedIndivVoice	1.3.6.1.4.1.193.10.1.4.2.2.1.13
siteQueuedGroupVoice	1.3.6.1.4.1.193.10.1.4.2.2.1.14
siteQueuedIndivData	1.3.6.1.4.1.193.10.1.4.2.2.1.15
siteQueuedGroupData	1.3.6.1.4.1.193.10.1.4.2.2.1.16
siteQueuedIndivOutboundTelephony	1.3.6.1.4.1.193.10.1.4.2.2.1.17
siteQueuedIndivInboundTelephony	1.3.6.1.4.1.193.10.1.4.2.2.1.18
siteQueuedGroupInboundTelephony	1.3.6.1.4.1.193.10.1.4.2.2.1.19
siteQueuedOther	1.3.6.1.4.1.193.10.1.4.2.2.1.20
siteDeniedIndivVoice	1.3.6.1.4.1.193.10.1.4.2.2.1.21
siteDeniedGroupVoice	1.3.6.1.4.1.193.10.1.4.2.2.1.22
siteDeniedIndivData	1.3.6.1.4.1.193.10.1.4.2.2.1.23
siteDeniedGroupData	1.3.6.1.4.1.193.10.1.4.2.2.1.24
siteDeniedIndivOutboundTelephony	1.3.6.1.4.1.193.10.1.4.2.2.1.25
siteDeniedIndivInboundTelephony	1.3.6.1.4.1.193.10.1.4.2.2.1.26
siteDeniedGroupInboundTelephony	1.3.6.1.4.1.193.10.1.4.2.2.1.27
siteDeniedOther	1.3.6.1.4.1.193.10.1.4.2.2.1.28
siteSysBusyIndivVoice	1.3.6.1.4.1.193.10.1.4.2.2.1.29
siteSysBusyGroupVoice	1.3.6.1.4.1.193.10.1.4.2.2.1.30
siteSysBusyIndivData	1.3.6.1.4.1.193.10.1.4.2.2.1.31
siteSysBusyGroupData	1.3.6.1.4.1.193.10.1.4.2.2.1.32
siteSysBusyIndivOutboundTelephony	1.3.6.1.4.1.193.10.1.4.2.2.1.33

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siteSysBusyIndivInboundTelephony	1.3.6.1.4.1.193.10.1.4.2.2.1.34
siteSysBusyGroupInboundTelephony	1.3.6.1.4.1.193.10.1.4.2.2.1.35
siteSysBusyOther	1.3.6.1.4.1.193.10.1.4.2.2.1.36
siteConvertedCallerToCallee	1.3.6.1.4.1.193.10.1.4.2.2.1.37

Performance *items* in the siteCktTimeTable:

siteCktTimeTable	1.3.6.1.4.1.193.10.1.4.2.3
siteCktTimeEntry	1.3.6.1.4.1.193.10.1.4.2.3.1
siteCktTimeNumber	1.3.6.1.4.1.193.10.1.4.2.3.1.1
siteCktTimeEntityID	1.3.6.1.4.1.193.10.1.4.2.3.1.2
siteCktTimeMibExtension	1.3.6.1.4.1.193.10.1.4.2.3.1.3
siteCktTimeSampleInterval	1.3.6.1.4.1.193.10.1.4.2.3.1.4
siteCktTimeIndivVoice	1.3.6.1.4.1.193.10.1.4.2.3.1.5
siteCktTimeGroupVoice	1.3.6.1.4.1.193.10.1.4.2.3.1.6
siteCktTimeIndivData	1.3.6.1.4.1.193.10.1.4.2.3.1.7
siteCktTimeGroupData	1.3.6.1.4.1.193.10.1.4.2.3.1.8
siteCktTimeIndivOutboundTelephony	1.3.6.1.4.1.193.10.1.4.2.3.1.9
siteCktTimeIndivInboundTelephony	1.3.6.1.4.1.193.10.1.4.2.3.1.10
siteCktTimeGroupInboundTelephony	1.3.6.1.4.1.193.10.1.4.2.3.1.11
siteCktTimeOther	1.3.6.1.4.1.193.10.1.4.2.3.1.12
siteCktQTimeIndivVoice	1.3.6.1.4.1.193.10.1.4.2.3.1.13
siteCktQTimeGroupVoice	1.3.6.1.4.1.193.10.1.4.2.3.1.14
siteCktQTimeIndivData	1.3.6.1.4.1.193.10.1.4.2.3.1.15
siteCktQTimeGroupData	1.3.6.1.4.1.193.10.1.4.2.3.1.16
siteCktQTimeIndivOutboundTelephony	1.3.6.1.4.1.193.10.1.4.2.3.1.17
siteCktQTimeIndivInboundTelephony	1.3.6.1.4.1.193.10.1.4.2.3.1.18
siteCktQTimeGroupInboundTelephony	1.3.6.1.4.1.193.10.1.4.2.3.1.19
siteCktQTimeOther	1.3.6.1.4.1.193.10.1.4.2.3.1.20

6.1.1 Site Level Total Statistics Summary Information

OBJECT IDENTIFIER	SYNTAX	ACCESS	DESCRIPTION
siteTotalEntry	SEQUENCE OF	not-	A (conceptual) entry in the siteTotalTable which contains statistics information for a particular EDACS site.
1.3.6.1.4.1.193.10.1.4.2.1.1	SiteTotalEntry	accessible	

Table 14 - Site Total Table [1.3.6.1.4.1.193.10.1.4.2.1]

OBJECT IDENTIFIER	SYNTAX	ACCESS	DESCRIPTION
siteTotalNumber 1.3.6.1.4.1.193.10.1.4.2.1.1.1	SiteTotalEntry	not- accessible	A unique value for each EDACS site, which serves as an index to a particular (conceptual) entry in the siteTotalTable.
			By convention, this value is identical to the "actual" number administratively assigned to this site. For example, a value of five (5) literally identifies "site 5". Note that the siteTotalNumber object instance is also used as an index to a specific entry in the siteTotalTable. Thus, management stations must be prepared to receive tabular information whose instance identification is not ordinately based with regard to its (conceptual) position in the siteTotalTable.
siteTotalEntityID 1.3.6.1.4.1.193.10.1.4.2.1.1.2	SiteNumberType	read-only	The authoritative identification of the EDACS product which is providing the accessibility information for this site (a "conceptual row" in the siteTotalTable).
siteTotalMibExtension 1.3.6.1.4.1.193.10.1.4.2.1.1.3	OBJECT IDENTIFIER	read-only	A reference to a MIB definition which this entity implements for extended information regarding sites.
			If this extension information is not present, then the siteTotalMibExtension object instance value shall be OBJECT IDENTIFIER { 0 0 }, which is a syntactically valid object identifier.
siteTotalSampleInterval 1.3.6.1.4.1.193.10.1.4.2.1.1.4	TimeTicks	read-write	The time interval, expressed in hundredths of a second, during which statistics have been collected for this site.
			The only value a management station may attempt to set is zero (0), which has the effect of resetting the accessibility statistics for this site to zero. If this entity does not support resetting the statistics, or a value other than zero is attempted to be written, then a "badValue" should be returned.
siteTotalAssigned 1.3.6.1.4.1.193.10.1.4.2.1.1.5	Counter	read-only	The total number of successful resource (e.g. channel) allocations that this site has performed.
siteTotalAssignedEmergencies 1.3.6.1.4.1.193.10.1.4.2.1.1.6	Counter	read-only	The total number of successful resource (e.g. channel) allocations provided for emergency calls. Note that this counter is included in the siteTotalCallAssigned object instance.
siteTotalAssignedSecondary 1.3.6.1.4.1.193.10.1.4.2.1.1.7	Counter	read-only	The total number of successful resource (e.g. channel) allocations made by this site for which this site was not the originating entity for a multi-site call. Note that this counter is included in the siteTotalCallAssigned object instance.
siteTotalAssignedMsgTrunked 1.3.6.1.4.1.193.10.1.4.2.1.1.8	Counter	read-only	The total number of successful resource (e.g. channel) allocations provided for calls which where message trunked. Note that this counter is included in the siteTotalCallAssigned object instance. This variable is useful for determining the relative percentages of transmission and message trunking being performed by this site.
siteTotalDropped 1.3.6.1.4.1.193.10.1.4.2.1.1.9	Counter	read-only	The total number of successful resource (e.g. channel) de-allocations that this site has performed.

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OBJECT IDENTIFIER	SYNTAX	ACCESS	DESCRIPTION
siteTotalQueued 1.3.6.1.4.1.193.10.1.4.2.1.1.10	Counter	read-only	The total number of times that an attempt to a allocate a resource (e.g. channel) on this site resulted in the requesting user being queued for access to this site's resources.
siteTotalDenied 1.3.6.1.4.1.193.10.1.4.2.1.1.11	Counter	read-only	The total number of times that an attempt to a allocate a resource (e.g. channel) on this site resulted in the requesting user being denied access to this site's resources.
siteTotalSysBusy 1.3.6.1.4.1.193.10.1.4.2.1.1.12	Counter	read-only	The total number of times that an attempt to a allocate a resource (e.g. channel) on this site could not be granted due to a lack of available system resources.
siteTotalChanKeys 1.3.6.1.4.1.193.10.1.4.2.1.1.13	Counter	read-only	The total number of times that channel keying event was reported by this site. A channel key event occurs during message trunked calls, and indicates that a channel hangtime limit has been re-initialized.
siteTotalChanUnKeys 1.3.6.1.4.1.193.10.1.4.2.1.1.14	Counter	read-only	The total number of times that channel un-key event was reported by this site. A channel un-key event occurs during message trunked calls, and indicates that a channel hangtime counter has begun decrementing. If the hangtime counter expires prior to a subsequent channel keying event, the channel in use will be de- allocated (e.g. dropped).
siteTotalCktTime 1.3.6.1.4.1.193.10.1.4.2.1.1.15	TimeTicks	read-only	The total amount of circuit connection time, in hundredths of a second, that this site has provided.
siteTotalCktQTime 1.3.6.1.4.1.193.10.1.4.2.1.1.16	TimeTicks	read-only	The total amount of time, in hundredths of a second, that requests to allocate a circuit have been queued, pending on access to resource allocation at this site. Note that this variable does not reflect any artifacts of
			the final outcome of the queuing (e.g. whether or not resources were eventually allocated).

6.1.2 Site Level System Accessibility Statistics

The Site Access Table is a (conceptual) table which contains system accessibility statistics for EDACS sites.

Table 15 - Site Access Table [1.3.6.1.4.1.193.10.1.4.2.2]

OBJECT IDENTIFIER	SYNTAX	ACCESS	DESCRIPTION
siteAccessEntry 1.3.6.1.4.1.193.10.1.4.2.2.1	SiteAccessEntry	not- accessible	A (conceptual) entry in the siteAccessTable which contains accessibility information for a particular EDACS site.
siteAccessNumber 1.3.6.1.4.1.193.10.1.4.2.2.1.1	SiteNumberType	read-only	A unique value for each EDACS site, which serves as an index to a particular (conceptual) entry in the siteAccessTable. By convention, this value is identical to the "actual"
			number administratively assigned to this site. For example, a value of five (5) literally identifies "site 5". Note that the siteAccessNumber object instance is also

OBJECT IDENTIFIER	SYNTAX	ACCESS	DESCRIPTION
			used as an index to a specific entry in the siteAccessTable. Thus, management stations must be prepared to receive tabular information whose instance identification is not ordinately based with regard to its (conceptual) position in the siteAccessTable. For example, assume that this entity is only collecting information about site five (5). As such, this entity would have only one (conceptual) entry in the siteAccessTable. Next, assume that a management station wishes to inspect the siteAssignedIndivVoice object instance associated with said site. This specific instance would thus be identified as siteAssignedIndivVoice.5, as opposed to siteAssignedIndivVoice.1.
siteAccessEntityID 1.3.6.1.4.1.193.10.1.4.2.2.1.2	OBJECT IDENTIFIER	read-only	The authoritative identification of the EDACS product which is providing the accessibility information for this site (a "conceptual row" in the siteAccessTable).
siteAccessMibExtension 1.3.6.1.4.1.193.10.1.4.2.2.1.3	OBJECT IDENTIFIER	read-only	A reference to a MIB definition which this entity implements for extended information regarding site accessibility.
			If this extension information is not present, then the siteAccessMibExtension object instance value shall be OBJECT IDENTIFIER { 0 0 }, which is a syntactically valid object identifier.
siteAccessSampleInterval 1.3.6.1.4.1.193.10.1.4.2.2.1.4	TimeTicks	read-write	The time interval, expressed in hundredths of a second, during which accessibility statistics have been collected for this site.
			The only value a management station may attempt to set is zero (0), which has the effect of resetting the accessibility statistics for this site to zero. If this entity does not support resetting the statistics, or a value other than zero is attempted to be written, then a "badValue" should be returned.
siteAssignedIndivVoice 1.3.6.1.4.1.193.10.1.4.2.2.1.5	Counter	read-only	The total number of successful resource (channel) assignments that this site has provided for individual voice calls.
siteAssignedGroupVoice 1.3.6.1.4.1.193.10.1.4.2.2.1.6	Counter	read-only	The total number of successful resource (channel) assignments that this site has provided for group voice calls.
siteAssignedIndivData 1.3.6.1.4.1.193.10.1.4.2.2.1.7	Counter	read-only	The total number of successful resource (channel) assignments that this site has provided for individual data calls.
siteAssignedGroupData 1.3.6.1.4.1.193.10.1.4.2.2.1.8	Counter	read-only	The total number of successful resource (channel) assignments that this site has provided for group data calls.
siteAssignedIndivOutboundTele phony 1.3.6.1.4.1.193.10.1.4.2.2.1.9	Counter	read-only	The total number of successful resource (channel) assignments that this site has provided for individual outbound interconnect calls (e.g. PRS terminal to a telephony terminal).
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OBJECT IDENTIFIER	SYNTAX	ACCESS	DESCRIPTION
siteAssignedIndivInboundTelep hony 1.3.6.1.4.1.193.10.1.4.2.2.1.10	Counter	read-only	The total number of successful resource (channel) assignments that this site has provided for individual inbound interconnect calls (e.g. telephony terminal to a PRS terminal).
siteAssignedGroupInboundTele phony 1.3.6.1.4.1.193.10.1.4.2.2.1.11	Counter	read-only	The total number of successful resource (channel) assignments that this site has provided for group inbound interconnect calls (e.g. telephony terminal to multiple PRS terminals).
siteAssignedOther 1.3.6.1.4.1.193.10.1.4.2.2.1.12	Counter	read-only	The total number of successful resource (channel) assignments made by this site which were not counted by the proceeding siteAssigned "CallType" object instances.
siteQueuedIndivVoice 1.3.6.1.4.1.193.10.1.4.2.2.1.13	Counter	read-only	The total number of times that an attempt to place an individual voice call resulted in the requesting user being queued for access to this site's resources.
siteQueuedGroupVoice 1.3.6.1.4.1.193.10.1.4.2.2.1.14	Counter	read-only	The total number of times that an attempt to place a group voice call resulted in the requesting user being queued for access to this site's resources.
siteQueuedIndivData 1.3.6.1.4.1.193.10.1.4.2.2.1.15	Counter	read-only	The total number of times that an attempt to place an individual data call resulted in the requesting user being queued for access to this site's resources.
siteQueuedGroupData 1.3.6.1.4.1.193.10.1.4.2.2.1.16	Counter	read-only	The total number of times that an attempt to place a group data call resulted in the requesting user being queued for access to this site's resources.
siteQueuedIndivOutboundTelep hony 1.3.6.1.4.1.193.10.1.4.2.2.1.17	Counter	read-only	The total number of times that an attempt to place an individual outbound interconnect call (e.g. PRS terminal to a telephony terminal) resulted in the requesting user being queued for access to this site's resources.
siteQueuedIndivInboundTeleph ony 1.3.6.1.4.1.193.10.1.4.2.2.1.18	Counter	read-only	The total number of times that an attempt to place an individual inbound interconnect call (e.g. telephony terminal to a PRS terminal) resulted in the requesting user being queued for access to this site's resources.
siteQueuedGroupInboundTelep hony 1.3.6.1.4.1.193.10.1.4.2.2.1.19	Counter	read-only	The total number of times that an attempt to place a group inbound interconnect call (e.g. telephony terminal to multiple PRS terminals) resulted in the requesting user being queued for access to this site's resources.
siteQueuedOther 1.3.6.1.4.1.193.10.1.4.2.2.1.20	Counter	read-only	The total number of that an attempt to allocate resources (e.g. channel) resulted in queuing which were not counted by the proceeding siteQueued "CallType" object instances.
siteDeniedIndivVoice 1.3.6.1.4.1.193.10.1.4.2.2.1.21	Counter	read-only	The total number of times that an attempt to place an individual voice call resulted in the requesting user being denied access to this site's resources.
siteDeniedGroupVoice 1.3.6.1.4.1.193.10.1.4.2.2.1.22	Counter	read-only	The total number of times that an attempt to place a group voice call resulted in the requesting user being

OBJECT IDENTIFIER	SYNTAX	ACCESS	DESCRIPTION
			denied access to this site's resources.
siteDeniedIndivData 1.3.6.1.4.1.193.10.1.4.2.2.1.23	Counter	read-only	The total number of times that an attempt to place an individual data call resulted in the requesting user being denied access to this site's resources.
siteDeniedGroupData 1.3.6.1.4.1.193.10.1.4.2.2.1.24	Counter	read-only	The total number of times that an attempt to place a group data call resulted in the requesting user being denied access to this site's resources.
siteDeniedIndivOutboundTelep hony 1.3.6.1.4.1.193.10.1.4.2.2.1.25	Counter	read-only	The total number of times that an attempt to place an individual outbound interconnect call (e.g. PRS terminal to a telephony terminal) resulted in the requesting user being denied access to this site's resources.
siteDeniedIndivInboundTelepho ny 1.3.6.1.4.1.193.10.1.4.2.2.1.26	Counter	read-only	The total number of times that an attempt to place an individual inbound interconnect call (e.g. telephony terminal to a PRS terminal) resulted in the requesting user being denied access to this site's resources.
siteDeniedGroupInboundTeleph ony 1.3.6.1.4.1.193.10.1.4.2.2.1.27	Counter	read-only	The total number of times that an attempt to place a group inbound interconnect call (e.g. telephony terminal to multiple PRS terminals) resulted in the requesting user being denied access to this site's resources.
siteDeniedOther 1.3.6.1.4.1.193.10.1.4.2.2.1.28	Counter	read-only	The total number of that an attempt to allocate resources (e.g. channel) resulted in the user being denied access at this site, which were not counted by the proceeding siteDenied "CallType" object instances.
siteSysBusyIndivVoice 1.3.6.1.4.1.193.10.1.4.2.2.1.29	Counter	read-only	The total number of times that a request to place an individual voice call could not be granted due to a lack of system resources at this site.
siteSysBusyGroupVoice 1.3.6.1.4.1.193.10.1.4.2.2.1.30	Counter	read-only	The total number of times that a request to place a group voice call could not be granted due to a lack of system resources at this site.
siteSysBusyIndivData 1.3.6.1.4.1.193.10.1.4.2.2.1.31	Counter	read-only	The total number of times that a request to place an individual data call could not be granted due to a lack of system resources at this site.
siteSysBusyGroupData 1.3.6.1.4.1.193.10.1.4.2.2.1.32	Counter	read-only	The total number of times that a request to place a group data call could not be granted due to a lack of system resources at this site.
siteSysBusyIndivOutboundTele phony 1.3.6.1.4.1.193.10.1.4.2.2.1.33	Counter	read-only	The total number of times that a request to place an individual outbound interconnect call (e.g. PRS terminal to a telephony terminal) could not be granted due to a lack of system resources at this site.
siteSysBusyIndivInboundTeleph ony 1.3.6.1.4.1.193.10.1.4.2.2.1.34	Counter	read-only	The total number of times that a request to place an individual inbound interconnect call (e.g. telephony terminal to a PRS terminal) could not be granted due to a lack of system resources at this site.
siteSysBusyGroupInboundTelep	Counter	read-only	The total number of times that an attempt to place a

OBJECT IDENTIFIER	SYNTAX	ACCESS	DESCRIPTION
hony 1.3.6.1.4.1.193.10.1.4.2.2.1.35			group inbound interconnect call (e.g. telephony terminal to multiple PRS terminals) could not be granted due to a lack of system resources at this site.
siteSysBusyOther 1.3.6.1.4.1.193.10.1.4.2.2.1.36	Counter	read-only	The total number of that an attempt to allocate resources (e.g. channel) could not be granted due to a lack of system resources at this site, which were not counted by the proceeding siteSysBusy "CallType" object instances.
siteConvertedCallerToCallee 1.3.6.1.4.1.193.10.1.4.2.2.1.37	Counter	read-only	The total number of times that an originating party (caller) was allocated resources (e.g. a channel), but was re-assigned as the destination party (callee) for the call at this site. This object instance provides an indication of (normal) glare conditions, which may occur during call conversations, which were successfully resolved with regard to resource allocation.

6.1.3 Site Level Circuit Connection Time Statistics

The Site Circuit Time Table is a (conceptual) table which contains circuit connection time statistics for EDACS sites.

OBJECT IDENTIFIER	SYNTAX	ACCESS	DESCRIPTION
siteCktTimeEntry 1.3.6.1.4.1.193.10.1.4.2.3.1	SiteCktTimeEntry	not- accessible	A (conceptual) entry in the siteCktTimeTable which contains circuit connection time statistics for a particular EDACS site.
siteCktTimeNumber 1.3.6.1.4.1.193.10.1.4.2.3.1.1	SiteNumberType	read-only	A unique value for each EDACS site, which serves as an index to a particular (conceptual) entry in the siteCktTimeTable.
			By convention, this value is identical to the "actual" number administratively assigned to this site. For example, a value of five (5) literally identifies "site 5".
siteCktTimeEntityID 1.3.6.1.4.1.193.10.1.4.2.3.1.2	OBJECT IDENTIFIER	read-only	The authoritative identification of the EDACS product which is providing the accessibility information for this site (a "conceptual row" in the siteCktTimeTable).
siteCktTimeMibExtension 1.3.6.1.4.1.193.10.1.4.2.3.1.3	OBJECT IDENTIFIER	read-only	A reference to a MIB definition which this entity implements for extended information regarding site circuit usage.
			If this extension information is not present, then the siteAccessMibExtension object instance value shall be OBJECT IDENTIFIER { 0 0 }, which is a syntactically valid object identifier.

Table 16 - Site Circuit Time	Table [1.3.6.1.4.1.193.10.1.4.2.3]
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OBJECT IDENTIFIER	SYNTAX	ACCESS	DESCRIPTION
siteCktTimeSampleInterval 1.3.6.1.4.1.193.10.1.4.2.3.1.4	TimeTicks	read-write	The time interval, expressed in hundredths of a second, during which circuit connection time usage statistics have been collected for this site.
			The only value a management station may attempt to set is zero (0), which has the effect of resetting the circuit statistics for this site to zero. If this entity does not support resetting the statistics, or a value other than zero is attempted to be written, then a "badValue" should be returned."
siteCktTimeIndivVoice 1.3.6.1.4.1.193.10.1.4.2.3.1.5	TimeTicks	read-only	The total amount of circuit connection time, in hundredths of a second, that this site has provided for individual voice calls.
siteCktTimeGroupVoice 1.3.6.1.4.1.193.10.1.4.2.3.1.6	TimeTicks	read-only	The total amount of circuit connection time, in hundredths of a second, that this site has provided for group voice calls.
siteCktTimeIndivData 1.3.6.1.4.1.193.10.1.4.2.3.1.7	TimeTicks	read-only	The total amount of circuit connection time, in hundredths of a second, that this site has provided for individual data calls.
siteCktTimeGroupData 1.3.6.1.4.1.193.10.1.4.2.3.1.8	TimeTicks	read-only	The total amount of circuit connection time, in hundredths of a second, that this site has provided for group data calls.
siteCktTimeIndivOutboundTelephony 1.3.6.1.4.1.193.10.1.4.2.3.1.9	TimeTicks	read-only	The total amount of circuit connection time, in hundredths of a second, that this site has provided for individual outbound interconnect calls (e.g. PRS terminal to a telephony terminal).
siteCktTimeIndivInboundTelephony 1.3.6.1.4.1.193.10.1.4.2.3.1.10	TimeTicks	read-only	The total amount of circuit connection time, in hundredths of a second, that this site has provided for individual inbound interconnect calls (e.g. telephony terminal to a PRS terminal).
siteCktTimeGroupInboundTelephony 1.3.6.1.4.1.193.10.1.4.2.3.1.11	TimeTicks	read-only	The total amount of circuit connection time, in hundredths of a second, that this site has provided for group inbound interconnect calls (e.g. telephony terminal to multiple PRS terminals).
siteCktTimeOther 1.3.6.1.4.1.193.10.1.4.2.3.1.12	TimeTicks	read-only	The total amount of circuit connection time, in hundredths of a second, that this site has provided which has not been accumulated by the proceeding siteCktTime "CallType" object instances.
siteCktQTimeIndivVoice 1.3.6.1.4.1.193.10.1.4.2.3.1.13	TimeTicks	read-only	The total amount of time, in hundredths of a second, that requests to place an individual voice call have been queued, pending on access to resource allocation at this site.
			Note that this variable does not reflect any artifacts of the final outcome of the queuing (e.g. whether or not resources were eventually allocated).

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OBJECT IDENTIFIER	SYNTAX	ACCESS	DESCRIPTION
siteCktQTimeGroupVoice 1.3.6.1.4.1.193.10.1.4.2.3.1.14	TimeTicks	read-only	The total amount of time, in hundredths of a second, that requests to place a group voice call have been queued, pending on access to resource allocation at this site.
			Note that this variable does not reflect any artifacts of the final outcome of the queuing (e.g. whether or not resources were eventually allocated).
siteCktQTimeIndivData 1.3.6.1.4.1.193.10.1.4.2.3.1.15	TimeTicks	read-only	The total amount of time, in hundredths of a second, that requests to place an individual data call have been queued, pending on access to resource allocation at this site.
			Note that this variable does not reflect any artifacts of the final outcome of the queuing (e.g. whether or not resources were eventually allocated).
siteCktQTimeGroupData 1.3.6.1.4.1.193.10.1.4.2.3.1.16	TimeTicks	read-only	The total amount of time, in hundredths of a second, that requests to place a group data call have been queued, pending on access to resource allocation at this site.
			Note that this variable does not reflect any artifacts of the final outcome of the queuing (e.g. whether or not resources were eventually allocated).
siteCktQTimeIndivOutboundTelephony 1.3.6.1.4.1.193.10.1.4.2.3.1.17	TimeTicks	read-only	The total amount of time, in hundredths of a second, that requests to place an individual outbound interconnect call (e.g. PRS terminal to a telephony terminal) have been queued, pending on access to resource allocation at this site.
			Note that this variable does not reflect any artifacts of the final outcome of the queuing (e.g. whether or not resources were eventually allocated).
siteCktQTimeIndivInboundTelephony 1.3.6.1.4.1.193.10.1.4.2.3.1.18	TimeTicks	read-only	The total amount of time, in hundredths of a second, that requests to place an individual inbound interconnect call (e.g. telephony terminal to a PRS terminal) have been queued, pending on access to resource allocation at this site.
			Note that this variable does not reflect any artifacts of the final outcome of the queuing (e.g. whether or not resources were eventually allocated).
siteCktQTimeGroupInboundTelephony 1.3.6.1.4.1.193.10.1.4.2.3.1.19	TimeTicks	read-only	The total amount of time, in hundredths of a second, that requests to place a group inbound interconnect call (e.g. telephony terminal to multiple PRS terminals) have been queued, pending on access to resource allocation at this site.
			Note that this variable does not reflect any artifacts of the final outcome of the queuing (e.g. whether or not resources were eventually allocated).
siteCktQTimeOther 1.3.6.1.4.1.193.10.1.4.2.3.1.20	TimeTicks	read-only	The total amount of time, in hundredths of a second, that requests to allocate resources (e.g. channel) have been queued, which were not accumulated by the proceeding siteCktQTime "CallType" object instances.
			Note that this variable does not reflect any artifacts of the final outcome of the queuing (e.g. whether or not resources were eventually allocated).

7. SYSTEM NODE GROUP

This MIB specifies performance information available at the EDACS Service Node (for example primary switching center) level

7.1 NODE PERFORMANCE GROUP

The graphical representation in Figure 10 shows the primary branches in the EDACS Node Performance Group.



Figure 10 - EDACS Node Performance Group

The following summarizes the items currently identified under the node performance (2) branch. Detailed information for this group may be found in the mib file "edacs104.mib" located in Appendix A.

nodeInfo	1.3.6.1.4.1.193.10.1.5.2.1
nodeInfoEntityID	1.3.6.1.4.1.193.10.1.5.2.1.1
nodeInfoNumber	1.3.6.1.4.1.193.10.1.5.2.1.2
nodeInfoMibExtension	1.3.6.1.4.1.193.10.1.5.2.1.3
nodeTotal	1.3.6.1.4.1.193.10.1.5.2.2
nodeTotalSampleInterval	1.3.6.1.4.1.193.10.1.5.2.2.1
nodeTotalAssigned	1.3.6.1.4.1.193.10.1.5.2.2.2
nodeTotalAssignedEmergencies	1.3.6.1.4.1.193.10.1.5.2.2.3
nodeTotalAssignedSecondary	1.3.6.1.4.1.193.10.1.5.2.2.4
nodeTotalAssignedMsgTrunked	1.3.6.1.4.1.193.10.1.5.2.2.5
nodeTotalDropped	1.3.6.1.4.1.193.10.1.5.2.2.6
nodeTotalQueued	1.3.6.1.4.1.193.10.1.5.2.2.7
nodeTotalDenied	1.3.6.1.4.1.193.10.1.5.2.2.8
nodeTotalSystemBusy	1.3.6.1.4.1.193.10.1.5.2.2.9
nodeTotalCktTime	1.3.6.1.4.1.193.10.1.5.2.2.10
nodeTotalCktQTime	1.3.6.1.4.1.193.10.1.5.2.2.11
nodeAccess	1.3.6.1.4.1.193.10.1.5.2.3

	nodeAccessSampleInterval	1.3.6.1.4.1.193.10.1.5.2.3.1
	nodeAssignedIndivVoice	1.3.6.1.4.1.193.10.1.5.2.3.2
	nodeAssignedGroupVoice	1.3.6.1.4.1.193.10.1.5.2.3.3
	nodeAssignedIndivData	1.3.6.1.4.1.193.10.1.5.2.3.4
	nodeAssignedGroupData	1.3.6.1.4.1.193.10.1.5.2.3.5
	nodeAssignedIndivOutboundTelephony	1.3.6.1.4.1.193.10.1.5.2.3.6
	nodeAssignedIndivInboundTelephony	1.3.6.1.4.1.193.10.1.5.2.3.7
	nodeAssignedGroupInboundTelephony	1.3.6.1.4.1.193.10.1.5.2.3.8
	nodeAssignedOther	1.3.6.1.4.1.193.10.1.5.2.3.9
	nodeQueuedIndivVoice	1.3.6.1.4.1.193.10.1.5.2.3.10
	nodeQueuedGroupVoice	1.3.6.1.4.1.193.10.1.5.2.3.11
	nodeQueuedIndivData	1.3.6.1.4.1.193.10.1.5.2.3.12
	nodeQueuedGroupData	1.3.6.1.4.1.193.10.1.5.2.3.13
	nodeQueuedIndivOutboundTelephony	1.3.6.1.4.1.193.10.1.5.2.3.14
	nodeQueuedIndivInboundTelephony	1.3.6.1.4.1.193.10.1.5.2.3.15
	nodeQueuedGroupInboundTelephony	1.3.6.1.4.1.193.10.1.5.2.3.16
	nodeQueuedOther	1.3.6.1.4.1.193.10.1.5.2.3.17
	nodeDeniedIndivVoice	1.3.6.1.4.1.193.10.1.5.2.3.18
	nodeDeniedGroupVoice	1.3.6.1.4.1.193.10.1.5.2.3.19
	nodeDeniedIndivData	1.3.6.1.4.1.193.10.1.5.2.3.20
	nodeDeniedGroupData	1.3.6.1.4.1.193.10.1.5.2.3.21
	nodeDeniedIndivOutboundTelephony	1.3.6.1.4.1.193.10.1.5.2.3.22
	nodeDeniedIndivInboundTelephony	1.3.6.1.4.1.193.10.1.5.2.3.23
	nodeDeniedGroupInboundTelephony	1.3.6.1.4.1.193.10.1.5.2.3.24
	nodeDeniedOther	1.3.6.1.4.1.193.10.1.5.2.3.25
	nodeSysBusyIndivVoice	1.3.6.1.4.1.193.10.1.5.2.3.26
	nodeSysBusyGroupVoice	1.3.6.1.4.1.193.10.1.5.2.3.27
	nodeSysBusyIndivData	1.3.6.1.4.1.193.10.1.5.2.3.28
	nodeSysBusyGroupData	1.3.6.1.4.1.193.10.1.5.2.3.29
	nodeSysBusyIndivOutboundTelephony	1.3.6.1.4.1.193.10.1.5.2.3.30
	nodeSysBusyIndivInboundTelephony	1.3.6.1.4.1.193.10.1.5.2.3.31
	nodeSysBusyGroupInboundTelephony	1.3.6.1.4.1.193.10.1.5.2.3.32
	nodeSysBusyOther	1.3.6.1.4.1.193.10.1.5.2.3.33
nod	eCktTime	1.3.6.1.4.1.193.10.1.5.2.4
	nodeCktTimeSampleInterval	1.3.6.1.4.1.193.10.1.5.2.4.1
	nodeCktTimeIndivVoice	1.3.6.1.4.1.193.10.1.5.2.4.2
	nodeCktTimeGroupVoice	1.3.6.1.4.1.193.10.1.5.2.4.3
	nodeCktTimeIndivData	1.3.6.1.4.1.193.10.1.5.2.4.4
	nodeCktTimeGroupData	1.3.6.1.4.1.193.10.1.5.2.4.5
	nodeCktTimeIndivOutboundTelephony	1.3.6.1.4.1.193.10.1.5.2.4.6
	nodeCktTimeIndivInboundTelephony	1.3.6.1.4.1.193.10.1.5.2.4.7
	nodeCktTimeGroupInboundTelephony	1.3.6.1.4.1.193.10.1.5.2.4.8
	nodeCktTimeOther	1.3.6.1.4.1.193.10.1.5.2.4.9
	nodeCktQTimeIndivVoice	1.3.6.1.4.1.193.10.1.5.2.4.10

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nodeCktQTimeGroupVoice	1.3.6.1.4.1.193.10.1.5.2.4.11
nodeCktQTimeIndivData	1.3.6.1.4.1.193.10.1.5.2.4.12
nodeCktQTimeGroupData	1.3.6.1.4.1.193.10.1.5.2.4.13
nodeCktQTimeIndivOutboundTelephony	1.3.6.1.4.1.193.10.1.5.2.4.14
nodeCktQTimeIndivInboundTelephony	1.3.6.1.4.1.193.10.1.5.2.4.15
nodeCktQTimeGroupInboundTelephony	1.3.6.1.4.1.193.10.1.5.2.4.16
nodeCktQTimeOther	1.3.6.1.4.1.193.10.1.5.2.4.17

7.1.1 Service Node Performance Information Group

General information provided by the entity which is providing service node performance information.

OBJECT IDENTIFIER	SYNTAX	ACCESS	DESCRIPTION
nodeInfoEntityID 1.3.6.1.4.1.193.10.1.5.2.1.1	OBJECT IDENTIFIER	read-only	The authoritative identification of the EDACS product which is providing performance information for this service node.
nodeInfoNumber 1.3.6.1.4.1.193.10.1.5.2.1.2	PositiveInteger	read-only	The administratively assigned node number of this EDACS service node. This value will be zero (0) if the entity supporting the node is not knowledgeable of the administratively assigned number for this service node.
nodeInfoMibExtension 1.3.6.1.4.1.193.10.1.5.2.1.3	OBJECT IDENTIFIER	read-only	A reference to a MIB definition which this entity implements for extended information regarding node level performance. If this extension information is not present, then the nodeInfoMibExtension object instance value shall be OBJECT IDENTIFIER { 0 0 }, which is a syntactically valid object identifier.

7.1.2 Node Level Total Statistics Information Group

Table 18 - Node Total Table [1.3.6.1.4.1.193.10.1.5.2.2]

OBJECT IDENTIFIER	SYNTAX	ACCESS	DESCRIPTION
nodeTotalSampleInterval 1.3.6.1.4.1.193.10.1.5.2.2.1	TimeTicks	read-write	The time interval, expressed in hundredths of a second, during which total summary statistics have been collected for this service node.
			The only value a management station may attempt to set is zero (0), which has the effect of resetting the total summary statistics for this node to zero. If this entity does not support resetting the statistics, or a value other than zero is attempted to be written, then a "badValue" should be returned.
nodeTotalAssigned 1.3.6.1.4.1.193.10.1.5.2.2.2	Counter	read-only	The total number of successful resource (e.g. channel) allocations provided by this service node's resources.

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OBJECT IDENTIFIER	SYNTAX	ACCESS	DESCRIPTION
nodeTotalAssignedEmergencies 1.3.6.1.4.1.193.10.1.5.2.2.3	Counter	read-only	The total number of successful resource (e.g. channel) allocations provided for emergency calls on this service node. Note that this counter is included in the nodeTotalAssigned object instance.
nodeTotalAssignedSecondary 1.3.6.1.4.1.193.10.1.5.2.2.4	Counter	read-only	The total number of successful resource (e.g. channel) allocations that this service node has performed which were associated with multi-site calls. Note that this counter is included in the nodeTotalAssigned object instance.
nodeTotalAssignedMsgTrunked 1.3.6.1.4.1.193.10.1.5.2.2.5	Counter	read-only	The total number of successful resource (e.g. channel) allocations provided for calls which where message trunked. Note that this counter is included in the nodeTotalAssigned object instance. This variable is useful for determining the relative percentages of transmission and message trunking being performed at this service node.
nodeTotalDropped 1.3.6.1.4.1.193.10.1.5.2.2.6	Counter	read-only	The total number of successful resource (e.g. channel) de-allocations that this service node has performed.
nodeTotalQueued 1.3.6.1.4.1.193.10.1.5.2.2.7	Counter	read-only	The total number of times that an attempt to a allocate a resource (e.g. channel) resulted in the requesting user being queued for access to this service node's resources.
nodeTotalDenied 1.3.6.1.4.1.193.10.1.5.2.2.8	Counter	read-only	The total number of times that an attempt to a allocate a resource (e.g. channel) resulted in the requesting user being denied access to this service node's resources.
nodeTotalSystemBusy 1.3.6.1.4.1.193.10.1.5.2.2.9	Counter	read-only	The total number of times that an attempt to a allocate a resource (e.g. channel) could not be granted due to a lack of resource availability at this service node.
nodeTotalCktTime 1.3.6.1.4.1.193.10.1.5.2.2.10	TimeTicks	read-only	The total amount of circuit connection time, in hundredths of a second, that this service node's resources have provided.
nodeTotalCktQTime 1.3.6.1.4.1.193.10.1.5.2.2.11	TimeTicks	read-only	The total amount of time, in hundredths of a second, that requests to allocate a circuit have been queued, pending on access allocation to this service node's resources.
			Note that this variable does not reflect any artifacts of the final outcome of the queuing (e.g. whether or not resources were eventually allocated).

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SYSTEM NODE GROUP

7.1.3 Node Level System Accessibility Statistics Group

Table 19 - Node Access	Table [1.3.6.1.4	.1.193.10.1.5.2.3]
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OBJECT IDENTIFIER	SYNTAX	ACCESS	DESCRIPTION
nodeAccessSampleInterval 1.3.6.1.4.1.193.10.1.5.2.3.1	TimeTicks	read-write	The time interval, expressed in hundredths of a second, during which accessibility statistics have been collected for this service node.
			The only value a management station may attempt to set is zero (0), which has the effect of resetting the accessibility statistics for this node to zero. If this entity does not support resetting the statistics, or a value other than zero is attempted to be written, then a "badValue" should be returned.
nodeAssignedIndivVoice 1.3.6.1.4.1.193.10.1.5.2.3.2	Counter	read-only	The total number of successful resource (channel) assignments that this node has provided for individual voice calls.
nodeAssignedGroupVoice 1.3.6.1.4.1.193.10.1.5.2.3.3	Counter	read-only	The total number of successful resource (channel) assignments that this node has provided for group voice calls.
nodeAssignedIndivData 1.3.6.1.4.1.193.10.1.5.2.3.4	Counter	read-only	The total number of successful resource (channel) assignments that this node has provided for individual data calls.
nodeAssignedGroupData 1.3.6.1.4.1.193.10.1.5.2.3.5	Counter	read-only	The total number of successful resource (channel) assignments that this node has provided for group data calls.
nodeAssignedIndivOutboundTelephony 1.3.6.1.4.1.193.10.1.5.2.3.6	Counter	read-only	The total number of successful resource (channel) assignments that this node has provided for individual outbound interconnect calls (e.g. PRS terminal to a telephony terminal).
nodeAssignedIndivInboundTelephony 1.3.6.1.4.1.193.10.1.5.2.3.7	Counter	read-only	The total number of successful resource (channel) assignments that this node has provided for individual inbound interconnect calls (e.g. telephony terminal to a PRS terminal).
nodeAssignedGroupInboundTelephony 1.3.6.1.4.1.193.10.1.5.2.3.8	Counter	read-only	The total number of successful resource (channel) assignments that this node has provided for group inbound interconnect calls (e.g. telephony terminal to multiple PRS terminals).
nodeAssignedOther 1.3.6.1.4.1.193.10.1.5.2.3.9	Counter	read-only	The total number of successful resource (channel) assignments that this service node has provided which were not counted by the proceeding nodeAssigned "CallType" object instances.
nodeQueuedIndivVoice 1.3.6.1.4.1.193.10.1.5.2.3.10	Counter	read-only	The total number of times that an attempt to place an individual voice call resulted in the requesting user being queued for access to this node's resources.
nodeQueuedGroupVoice 1.3.6.1.4.1.193.10.1.5.2.3.11	Counter	read-only	The total number of times that an attempt to place a group voice call resulted in the requesting user being queued for access to this node's resources.

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nodeQueuedIndivData 1.3.6.1.4.1.193.10.1.5.2.3.12	Counter	read-only	The total number of times that an attempt to place an individual data call resulted in the requesting user being queued for access to this node's resources.
nodeQueuedGroupData 1.3.6.1.4.1.193.10.1.5.2.3.13	Counter	read-only	The total number of times that an attempt to place a group data call resulted in the requesting user being queued for access to this node's resources.
nodeQueuedIndivOutboundTelephony 1.3.6.1.4.1.193.10.1.5.2.3.14	Counter	read-only	The total number of times that an attempt to place an individual outbound interconnect call (e.g. PRS terminal to a telephony terminal) resulted in the requesting user being queued for access to this node's resources.
nodeQueuedIndivInboundTelephony 1.3.6.1.4.1.193.10.1.5.2.3.15	Counter	read-only	The total number of times that an attempt to place an individual inbound interconnect call (e.g. telephony terminal to a PRS terminal) resulted in the requesting user being queued for access to this node's resources.
nodeQueuedGroupInboundTelephony 1.3.6.1.4.1.193.10.1.5.2.3.16	Counter	read-only	The total number of times that an attempt to place a group inbound interconnect call (e.g. telephony terminal to multiple PRS terminals) resulted in the requesting user being queued for access to this node's resources.
nodeQueuedOther 1.3.6.1.4.1.193.10.1.5.2.3.17	Counter	read-only	The total number of that an attempt to allocate resources (e.g. channel) resulted in queuing which was not counted by the proceeding nodeQueued "CallType" object instances.
nodeDeniedIndivVoice 1.3.6.1.4.1.193.10.1.5.2.3.18	Counter	read-only	The total number of times that an attempt to place an individual voice call resulted in the requesting user being denied access to this node's resources.
nodeDeniedGroupVoice 1.3.6.1.4.1.193.10.1.5.2.3.19	Counter	read-only	The total number of times that an attempt to place a group voice call resulted in the requesting user being denied access to this node's resources.
nodeDeniedIndivData 1.3.6.1.4.1.193.10.1.5.2.3.20	Counter	read-only	The total number of times that an attempt to place an individual data call resulted in the requesting user being denied access to this node's resources.
nodeDeniedGroupData 1.3.6.1.4.1.193.10.1.5.2.3.21	Counter	read-only	The total number of times that an attempt to place a group data call resulted in the requesting user being denied access to this node's resources.
nodeDeniedIndivOutboundTelephony 1.3.6.1.4.1.193.10.1.5.2.3.22	Counter	read-only	The total number of times that an attempt to place an individual outbound interconnect call (e.g. PRS terminal to a telephony terminal) resulted in the requesting user being denied access to this node's resources.
nodeDeniedIndivInboundTelephony 1.3.6.1.4.1.193.10.1.5.2.3.23	Counter	read-only	The total number of times that an attempt to place an individual inbound interconnect call (e.g. telephony terminal to a PRS terminal) resulted in the requesting user being denied access to this node's resources.
nodeDeniedGroupInboundTelephony 1.3.6.1.4.1.193.10.1.5.2.3.24	Counter	read-only	The total number of times that an attempt to place a group inbound interconnect call (e.g. telephony terminal to multiple PRS terminals) resulted in the requesting user being denied access to this node's resources.

nodeDeniedOther 1.3.6.1.4.1.193.10.1.5.2.3.25	Counter	read-only	The total number of that an attempt to allocate resources (e.g. channel) resulted in the user being denied access at this node, which were not counted by the proceeding nodeDenied "CallType" object instances.
nodeSysBusyIndivVoice 1.3.6.1.4.1.193.10.1.5.2.3.26	Counter	read-only	The total number of times that a request to place an individual voice call could not be granted due to a lack of system resources at this service node.
nodeSysBusyGroupVoice 1.3.6.1.4.1.193.10.1.5.2.3.27	Counter	read-only	The total number of times that a request to place a group voice call could not be granted due to a lack of system resources at this service node.
nodeSysBusyIndivData 1.3.6.1.4.1.193.10.1.5.2.3.28	Counter	read-only	The total number of times that a request to place an individual data call could not be granted due to a lack of system resources at this service node.
nodeSysBusyGroupData 1.3.6.1.4.1.193.10.1.5.2.3.29	Counter	read-only	The total number of times that a request to place a group data call could not be granted due to a lack of system resources at this service node.
nodeSysBusyIndivOutboundTelephony 1.3.6.1.4.1.193.10.1.5.2.3.30	Counter	read-only	The total number of times that a request to place an individual outbound interconnect call (e.g. PRS terminal to a telephony terminal) could not be granted due to a lack of system resources at this service node.
nodeSysBusyIndivInboundTelephony 1.3.6.1.4.1.193.10.1.5.2.3.31	Counter	read-only	The total number of times that a request to place an individual inbound interconnect call (e.g. telephony terminal to a PRS terminal) could not be granted due to a lack of system resources at this service node.
nodeSysBusyGroupInboundTelephony 1.3.6.1.4.1.193.10.1.5.2.3.32	Counter	read-only	The total number of times that an attempt to place a group inbound interconnect call (e.g. telephony terminal to multiple PRS terminals) could not be granted due to a lack of system resources at this service node.
nodeSysBusyOther 1.3.6.1.4.1.193.10.1.5.2.3.33	Counter	read-only	The total number of times that an attempt to allocate resources (e.g. channel) could not be granted due to a lack of system resources at this node, which were not counted by the proceeding nodeSysBusy "CallType" object instances.

7.1.4 Node Level Circuit Statistics Group

Table 20 - Node Circuit Time Table [1.3.6.1.4.1.193.10.1.5.2.4]

OBJECT IDENTIFIER	SYNTAX	ACCESS	DESCRIPTION
nodeCktTimeSampleInterval 1.3.6.1.4.1.193.10.1.5.2.4.1	TimeTicks	read-only	The time interval, expressed in hundredths of a second, during which circuit connection time usage statistics have been collected for this service node. The only value a management station may attempt to set is zero (0), which has the effect of resetting the circuit statistics for this node to zero. If this entity does not support resetting the statistics, or a value other than zero is attempted to be written, then a "badValue" should be returned.

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nodeCktTimeIndivVoice 1.3.6.1.4.1.193.10.1.5.2.4.2	TimeTicks	read-only	The total amount of circuit connection time, in hundredths of a second, that this node has provided for individual voice calls.
nodeCktTimeGroupVoice 1.3.6.1.4.1.193.10.1.5.2.4.3	TimeTicks	read-only	The total amount of circuit connection time, in hundredths of a second, that this node has provided for group voice calls.
nodeCktTimeIndivData 1.3.6.1.4.1.193.10.1.5.2.4.4	TimeTicks	read-only	The total amount of circuit connection time, in hundredths of a second, that this node has provided for individual data calls.
nodeCktTimeGroupData 1.3.6.1.4.1.193.10.1.5.2.4.5	TimeTicks	read-only	The total amount of circuit connection time, in hundredths of a second, that this node has provided for group data calls.
nodeCktTimeIndivOutboundTelephony 1.3.6.1.4.1.193.10.1.5.2.4.6	TimeTicks	read-only	The total amount of circuit connection time, in hundredths of a second, that this node has provided for individual outbound interconnect calls (e.g. individual PRS terminal to a telephony terminal).
nodeCktTimeIndivInboundTelephony 1.3.6.1.4.1.193.10.1.5.2.4.7	TimeTicks	read-only	The total amount of circuit connection time, in hundredths of a second, that this node has provided for individual inbound interconnect calls (e.g. telephony terminal to a PRS terminal).
nodeCktTimeGroupInboundTelephony 1.3.6.1.4.1.193.10.1.5.2.4.8	TimeTicks	read-only	The total amount of circuit connection time, in hundredths of a second, that this node has provided for group inbound interconnect calls (e.g. telephony terminal to multiple PRS terminals).
nodeCktTimeOther 1.3.6.1.4.1.193.10.1.5.2.4.9	TimeTicks	read-only	The total amount of circuit connection time, in hundredths of a second, that this node has provided which has not been accumulated by the proceeding nodeCktTime "CallType" object instances.
nodeCktQTimeIndivVoice 1.3.6.1.4.1.193.10.1.5.2.4.10	TimeTicks	read-only	The total amount of time, in hundredths of a second, that requests to place an individual voice call have been queued, pending on access to resource allocation at this node.
			Note that this variable does not reflect any artifacts of the final outcome of the queuing (e.g. whether or not resources were eventually allocated).
nodeCktQTimeGroupVoice 1.3.6.1.4.1.193.10.1.5.2.4.11	TimeTicks	read-only	The total amount of time, in hundredths of a second, that requests to place a group voice call have been queued, pending on access to resource allocation at this node.
			Note that this variable does not reflect any artifacts of the final outcome of the queuing (e.g. whether or not resources were eventually allocated).
nodeCktQTimeIndivData 1.3.6.1.4.1.193.10.1.5.2.4.12	TimeTicks	read-only	The total amount of time, in hundredths of a second, that requests to place an individual data call have been queued, pending on access to resource allocation at this node.
			Note that this variable does not reflect any artifacts of the final outcome of the queuing (e.g. whether or not resources were eventually allocated).

nodeCktQTimeGroupData 1.3.6.1.4.1.193.10.1.5.2.4.13	TimeTicks	read-only	The total amount of time, in hundredths of a second, that requests to place a group data call have been queued, pending on access to resource allocation at this node.
			Note that this variable does not reflect any artifacts of the final outcome of the queuing (e.g. whether or not resources were eventually allocated).
nodeCktQTimeIndivOutboundTelephony 1.3.6.1.4.1.193.10.1.5.2.4.14	TimeTicks	read-only	The total amount of time, in hundredths of a second, that requests to place an individual outbound interconnect call (e.g. PRS terminal to a telephony terminal) have been queued, pending on access to resource allocation at this node.
			Note that this variable does not reflect any artifacts of the final outcome of the queuing (e.g. whether or not resources were eventually allocated).
nodeCktQTimeIndivInboundTelephony 1.3.6.1.4.1.193.10.1.5.2.4.15	TimeTicks	read-only	The total amount of time, in hundredths of a second, that requests to place an individual inbound interconnect call (e.g. telephony terminal to a PRS terminal) have been queued, pending on access to resource allocation at this node.
			Note that this variable does not reflect any artifacts of the final outcome of the queuing (e.g. whether or not resources were eventually allocated).
nodeCktQTimeGroupInboundTelephony 1.3.6.1.4.1.193.10.1.5.2.4.16	TimeTicks	read-only	The total amount of time, in hundredths of a second, that requests to place a group inbound interconnect call (e.g. telephony terminal to multiple PRS terminals) have been queued, pending on access to resource allocation at this node.
			Note that this variable does not reflect any artifacts of the final outcome of the queuing (e.g. whether or not resources were eventually allocated).
nodeCktQTimeOther 1.3.6.1.4.1.193.10.1.5.2.4.17	TimeTicks	read-only	The total amount of time, in hundredths of a second, that requests to allocate resources (e.g. channel) have been queued, which were not accumulated by the proceeding nodeCktQTime "CallType" object instances.
			Note that this variable does not reflect any artifacts of the final outcome of the queuing (e.g. whether or not resources were eventually allocated).

APPENDIX A - EDACS MIB FILE LISTINGS

A.1. edacs100.mib

```
-- File:
           edacs100.mib
-- Title:
           EDACS Managed Element Identification
___
           Management Information Base
___
           Copyright (C) 1995, Ericsson, Inc.
___
           Private Radio Systems (PRS) Division.
____
___
           All Rights Reserved.
___
-- PRS MIB STATUS: PRELIMINARY
_ _
-- Description:
-- This MIB provides the primary object identifiers in the
-- Enhanced Digital Communication System (EDACS) branch of the
-- Ericsson private enterprise tree. The Ericsson (LM Ericsson AB)
-- Enterprise number is 193. EDACS is assigned node 10 under the Ericsson
-- tree. The ASN.1 prefix to, and including the ericsson(193).edacs(10)
-- node is 1.3.6.4.1.193.10.
___
-- NOTICE:
-- (1) The information in this document is subject to change without notice.
___
      Ericsson Inc. assumes no responsibility for any errors that may
____
      appear in this document.
EDACS-ID-MIB DEFINITIONS ::= BEGIN
   IMPORTS
     enterprises FROM RFC1155-SMI;
   -- Object Identifiers
   ericsson
                       OBJECT IDENTIFIER ::= { enterprises 193 }
   edacs
                       OBJECT IDENTIFIER ::= { ericsson 10 }
   system
                      OBJECT IDENTIFIER ::= { edacs 1 }
                      OBJECT IDENTIFIER ::= { system 1 }
   general
                     OBJECT IDENTIFIER ::= { general 1 }
OBJECT IDENTIFIER ::= { general 2 }
OBJECT IDENTIFIER ::= { general 3 }
   identity
  operation
   software
   fileSystem
                      OBJECT IDENTIFIER ::= { general 4 }
                       OBJECT IDENTIFIER ::= { system 2 }
   snmp
                       OBJECT IDENTIFIER ::= { system 3 }
   alarm
                      OBJECT IDENTIFIER ::= { alarm 1 }
   alarmThreshold
   site
                       OBJECT IDENTIFIER ::= { system 4 }
  siteConfigOBJECT IDENTIFIER ::= { site 1 }siteTopologyOBJECT IDENTIFIER ::= { siteConfig 1 }sitePerformanceOBJECT IDENTIFIER ::= { site 2 }
                       OBJECT IDENTIFIER ::= { system 5 }
  node
                       OBJECT IDENTIFIER ::= { node 1 }
  nodeConfig
                      OBJECT IDENTIFIER ::= { nodeConfig 1 }
  nodeTopology
  nodePerformanceOBJECT IDENTIFIER ::= { node 2 }
                       OBJECT IDENTIFIER ::= { system 6 }
   enterprise
```

edacs100.mib

```
OBJECT IDENTIFIER ::= { edacs 2 }
  product
                      OBJECT IDENTIFIER ::= { edacs 3 }
  protocol
                      OBJECT IDENTIFIER ::= { edacs 4 }
  partner
                      OBJECT IDENTIFIER ::= { partner 1 }
  hp
                      OBJECT IDENTIFIER ::= { edacs 5 }
  experimental
-- Products Section
    This section defines the Object Identifiers for all managed EDACS
-- network elements. New products will be added to the end of this list.
networkManager OBJECT IDENTIFIER ::= { product 1 }
-- EDACS Node Level products equipment components.
               OBJECT IDENTIFIER ::= { product 2 }
  node-equip
  systemManager OBJECT IDENTIFIER ::= { node-equip 1 }
                OBJECT IDENTIFIER ::= { node-equip 2 }
  imcManager
                OBJECT IDENTIFIER ::= { node-equip 3 }
  jessica
                OBJECT IDENTIFIER ::= { jessica 1 }
OBJECT IDENTIFIER ::= { node-equip 4 }
  pi
  datagateway
  edgCentralActivityProcessor OBJECT IDENTIFIER := { datagateway 1 }
                                 OBJECT IDENTIFIER ::= { datagateway 2 }
  edgTrunkingSystemInterface
                                 OBJECT IDENTIFIER ::= { datagateway 3 }
  edgHostDataInterface
  bcu-cal
                OBJECT IDENTIFIER ::= { node-equip 5 }
  cec-imc
                OBJECT IDENTIFIER ::= { node-equip 6 }
-- EDACS Site Level products equipment components.
               OBJECT IDENTIFIER ::= { product 3 }
  site-equip
  base-station OBJECT IDENTIFIER ::= { site-equip 1 }
                OBJECT IDENTIFIER ::= { base-station 1 }
  master
           OBJECT IDENTIFIER ..- { master 1 }
OBJECT IDENTIFIER ::= { master 1 }
  master-II3
               OBJECT IDENTIFIER ::= { master 2 }
  master-III
                OBJECT IDENTIFIER ::= { base-station 2 }
  prism
  siteController OBJECT IDENTIFIER ::= { site-equip 2 }
  aetc
                OBJECT IDENTIFIER ::= { site-equip 3 }
  getcProgrammer OBJECT IDENTIFIER ::= { site-equip 4 }
                OBJECT IDENTIFIER ::= { site-equip 5 }
  eli
-- EDACS Terminal equipment products group.
                OBJECT IDENTIFIER ::= { product 4 }
  terminal
  radio
                OBJECT IDENTIFIER ::= { terminal 1 }
  portable
                OBJECT IDENTIFIER ::= { radio 1 }
                OBJECT IDENTIFIER ::= { portable 1 }
  mp-pa
                OBJECT IDENTIFIER ::= { portable 2 }
  mp-rk
  mtl-sx
                OBJECT IDENTIFIER ::= { portable 3 }
                OBJECT IDENTIFIER ::= { portable 4 }
  tpx
               OBJECT IDENTIFIER ::= { portable 5 }
  pcs
               OBJECT IDENTIFIER ::= { portable 6 }
  mpi
  mpi-I
               OBJECT IDENTIFIER ::= { mpi 1 }
                OBJECT IDENTIFIER ::= { mpi 2 }
  mpi-II
```

```
OBJECT IDENTIFIER ::= { portable 7 }
   jane
                  OBJECT IDENTIFIER ::= { radio 2 }
   mobile
                  OBJECT IDENTIFIER ::= { mobile 1 }
   fmd
                  OBJECT IDENTIFIER ::= { mobile 2 }
   mtd
                  OBJECT IDENTIFIER ::= { mobile 3 }
   mls
  mls-I
                 OBJECT IDENTIFIER ::= { mls 1 }
   mls-II
                 OBJECT IDENTIFIER ::= { mls 2 }
                  OBJECT IDENTIFIER ::= { mobile 4 }
   mvs
                 OBJECT IDENTIFIER ::= { mobile 5 }
   mds
                 OBJECT IDENTIFIER ::= { mobile 6 }
   mdr
  mdrOBJECT IDENTIFIER ::= { mobile 7 }tmx-8825OBJECT IDENTIFIER ::= { mobile 8 }rangrOBJECT IDENTIFIER ::= { mobile 8 }
   deltaOBJECT IDENTIFIER ::= { mobile 9 }delta-sOBJECT IDENTIFIER ::= { delta 1 }delta-sxOBJECT IDENTIFIER ::= { delta 2 }orionOBJECT IDENTIFIER ::= { mobile 10 }
  pagerOBJECT IDENTIFIER ::= { radio 3 }beaconOBJECT IDENTIFIER ::= { pager 1 }beacon-IOBJECT IDENTIFIER ::= { beacon 1 }beacon-IIOBJECT IDENTIFIER ::= { beacon 2 }
                  OBJECT IDENTIFIER ::= { terminal 2 }
   dispatch
                  OBJECT IDENTIFIER ::= { dispatch 1 }
   console
   maestro-C3 OBJECT IDENTIFIER ::= { console 1 }
               OBJECT IDENTIFIER ::= { radio 4 }
   programmer
-- Protocols Group
-- This section defines the Object Identifiers for EDACS proprietary
-- protocols. The protocols node is analogous to the transmission group of
-- MIB-II (RFC-1213). The management information associated with each
-- protocol is embodied in that protocol's specific MIB.
-- New protocols will be added to the end of this list.
-- EDACS Radio Data Interface (RDI) Protocol
   radioDataInterface OBJECT IDENTIFIER ::= { protocol 1 }
            -- RDI Version 1.92 Protocol Version
            rdi1x92
                       OBJECT IDENTIFIER ::= { radioDataInterface 1 }
   -- EDACS CEC-IMC Console Interconnect Sliding Window Protocol
                        OBJECT IDENTIFIER ::= { protocol 2 }
   cimSlidingWindow
   -- EDACS Over-The-Air-Programming Protocol
                         OBJECT IDENTIFIER ::= { protocol 3 }
   otap
   END
```

A.2. edacs101.mib

```
-- File:
          edacs101.mib
-- Title: EDACS Common Managed Element Information
         Management Information Base
____
____
___
          Copyright (C) 1995, Ericsson, Inc.
___
           Private Radio Systems (PRS) Division.
           All Rights Reserved.
___
___
-- PRS MIB STATUS: PRELIMINARY
___
-- Description:
-- This Management Information Base (MIB) module provides instrumentation
-- of identification, software configuration, asset utilization, and
-- remote operations common to all EDACS managed element (ME) resources.
-- Implementation of this MIB is mandatory for all managed elements which
-- will communicate directly with an EDACS Network Management Station (NMS).
___
-- NOTICE:
-- (1) The information in this document is subject to change without notice.
    Ericsson Inc. assumes no responsibility for any errors that may
____
___
      appear in this document.
EDACS-ME-COMMON-MIB DEFINITIONS ::= BEGIN
  TMPORTS
     enterprises FROM RFC1155-SMI
     Counter
                     FROM RFC1155-SMI
                     FROM RFC1155-SMI
     Gauge
                    FROM RFC1155-SMI
     TimeTicks
                     FROM RFC1155-SMI
     IpAddress
     OBJECT-TYPE
                     FROM RFC-1212
     DisplayString
                     FROM RFC1213-MIB
     TRAP-TYPE
                     FROM RFC-1215;
  -- Object Identifiers
                      OBJECT IDENTIFIER ::= { enterprises 193 }
  ericsson
  edacs
                      OBJECT IDENTIFIER ::= { ericsson 10 }
                     OBJECT IDENTIFIER ::= { edacs 1 }
  system
  general
identity
operation
                     OBJECT IDENTIFIER ::= { system 1 }
                    OBJECT IDENTIFIER ::= { general 1 }
OBJECT IDENTIFIER ::= { general 2 }
  software
                     OBJECT IDENTIFIER ::= { general 3 }
  fileSystem
                   OBJECT IDENTIFIER ::= { general 4 }
                     OBJECT IDENTIFIER ::= { system 2 }
  snmp
  trap
                     OBJECT IDENTIFIER ::= { snmp 1 }
  crapOBJECT IDENTIFIER ::= { snmp 1 }trapDestinationOBJECT IDENTIFIER ::= { trap 2 }trapHistoryOBJECT IDENTIFIER ::= { trap 3 }
  authentication
                     OBJECT IDENTIFIER ::= { snmp 2 }
```

```
-- Textual conversions.
  -- Conversions local to this MIB module.
  SoftwareIndexType ::= INTEGER (1..65535)
  DiskIndexType
                   ::= INTEGER (1..65535)
  PercentDiskUsed
                   ::= INTEGER (0..100)
  -- Generic expression of an EDACS object identification instance.
                    ::= OBJECT IDENTIFIER
  EdacsProductID
  -- Positive context for (signed) 32-bit integers.
                   ::= INTEGER (0..2147483647)
  PositiveInteger32T
  -- A truth value.
                    ::= INTEGER { true(1), false(2) }
  Boolean
  -- A common method of presenting date and time
  -- Ref.: operDateAndTime and `host resource' RFC-1514.
                    ::= OCTET STRING (SIZE (8 | 11))
  DateAndTime
-- EDACS Network Element (NE) Identification Group.
-- The NE identification group is mandatory for all managed
-- EDACS network elements.
identSysObjectID OBJECT-TYPE
     SYNTAX EdacsProductID
     ACCESS read-only
     STATUS mandatory
     DESCRIPTION
          "The EDACS System Object Identification object instance
          provides authoritative identification of this managed
          EDACS network element. This value is assigned under the
          edacs(10).product(2) subtree of the ericsson(193) enterprise.
          This object provides an easy and unambiguous identification
          of what type of EDACS `box' this entity is associated with.
          This value will, typically, be identical to the sysObjectID
          object instance in the MIB-II system group. Note, however,
          that some EDACS entity's may be managed using a third
          party agent which `hardcodes' the sysObjectID to a value
          assigned under that vendor's private enterprise naming
          authority. As such, the identSysObjectID is the
          preferred means by which to identify this EDACS entity."
     ::= { identity 1 }
  identServiceNodeNumber OBJECT-TYPE
     SYNTAX PositiveInteger32T
     ACCESS read-only
     STATUS mandatory
     DESCRIPTION
          "The administratively assigned number of the EDACS
          service node for which this entity is providing service."
     ::= { identity 2 }
-- EDACS Remote Operations Group.
  The remote operations group is mandatory for all managed
-- EDACS network elements.
operDateAndTime OBJECT-TYPE
```

SYNTAX DateAndTime ACCESS read-write STATUS mandatory DESCRIPTION "The local date and time, as perceived by this managed network element. Note that this date-time specification is identical to the `DateAndTime' textual conversion as presented in the host resources sub-group of MIB-II. This data type is intended to provide a consistent method of reporting date and time information. field octets contents range 1 1 - 2year 0. . 65535 (in network byte order) 3 2 month 1..12 1..31 3 4 day 5 0..23 4 hour 5 0..59 6 minutes 6 7 0..60 seconds (use 60 for leap-second) 7 8 deci-seconds 0..9 `+' or `-' 8 9 direction from UTC (in ASCII notation) 10 hours from UTC 9 0..11 10 11 minutes from UTC 0..59 Note that if only local time is known, then timezone information (fields 8-10) is not present. If this information is not known, then this variable shall have the value corresponding to January 1, year 0000, 00:00:00.0, which is encoded as (hex) `00 00 01 01 00 00 00 00'." ::= { operation 1 } operRemoteReset OBJECT-TYPE SYNTAX INTEGER { supported(1), notSupported(2), inProgress(3), finalNotice(4), reset(5) } ACCESS read-write STATUS mandatory DESCRIPTION "This object provides a common method to remotely reset any managed EDACS network element. The only value a management station may attempt to set is reset(5), which requests a full system reset of this entity. If the request is accepted by the agent, this object instance will transition to inProgress(3). The value inProgress(3) indicates that this entity is performing any housekeeping duties (disk synchronization, active call tear-down, etc.) associated with a graceful system shutdown. Note that the amount of time an entity remains in the inProgress(3) state is an implementation specific issue; a duration of several minutes is not uncommon.

It is highly recommended that upon entering the

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```
inProgress(3) state, the agent return a `genErr' value
        for ANY further write operations attempted by a management
        station.
        After completion of any housekeeping duties, this value
        shall transition from inProgress(3) to finalNotice(4),
        which indicates that system reset is immediately
        imminent. At this point, no further network communications
        with the entity will be possible. This condition will
        exist until the entity completes re-initialization, which
        is typically announced via a coldStart(0) trap to the
        network management station(s)."
   ::= { operation 2 }
operAnnounceReset OBJECT-TYPE
  SYNTAX Boolean
  ACCESS read-write
  STATUS mandatory
  DESCRIPTION
         "This object controls the generation of traps
         for significant changes in state of the operRemoteReset
        object instance. A true(1) value indicates that traps will be
        generated. A false(2) value suppresses the generation of
        traps. It is recommended that this value be maintained in
        non-volatile storage, for consistency across system
        reboots."
  DEFVAL \{2\} -- false(2)
   ::= { operation 3 }
operRemoteStatus OBJECT-TYPE
   SYNTAX INTEGER {
        unknown(1),
        other (2),
        systemActive(3),
        systemShutdown(4),
        shutdownInProgress(5),
        shutdownComplete(6),
        activationInProgress(7),
        activationComplete(8)
  ACCESS read-write
  STATUS mandatory
   DESCRIPTION
         "This object provides a common mechanism to inspect and
        alter the operational state of this managed entity.
                                                             This
        mechanism is useful for taking an entity in and out of
        normal, mission oriented, service (typically for trouble
        shooting purposes).
        systemActive(3) indicates that this entity is completely
         `on-line', with all mission operational parameters
         functioning within nominal parameters.
         systemShutdown(4) indicates that this entity is completely
         `off-line' (e.g. dormant, with regard to it's normal mission
        requirements within an EDACS network infrastructure).
        shutdownInProgress(5) indicates that this entity is in
        transition towards a state of shutdownComplete(6), either
        at the request of a management station, or due to behavioral
        aspects of said entity. If an entity can not
        achieve shutdownComplete(6), it shall remain in the
```

shutdownInProgress(5) state.

```
shutdownComplete(6) indicates that this entity has performed
           any pre-shutdown processing, and is intending to immediately
           enter a (mission critical) dormant state.
           Note that this state is potentially transient in nature (e.g.
           an entity may, choose to transition directly from a
           shutdownInProgress(5) to that of systemShutdown(4)).
           activationInProgress(7) indicates that this entity is performing
           any processing required for an orderly transition from a
           systemShutdown(4) state to that of systemActive(3).
           activationComplete(8) indicates that this entity has
           completed any processing required for an attempt to
           transition to a state of systemActive(3).
           Note that this state is potentially transient in nature (e.g.
           an entity may, choose to transition
           from activationInProgress(7) directly to systemActive(3)).
           The only values a management station may attempt to set are
           systemActive(3) and systemShutdown(4). Note that placing
           an EDACS entity in the systemShutdown(4) shall not impact
           network communication services between the entity and
           network management stations."
     ::= { operation 4 }
  operAnnounceStatus OBJECT-TYPE
     SYNTAX Boolean
     ACCESS read-write
     STATUS mandatory
     DESCRIPTION
           "This object controls the generation of traps
           for significant changes in state of the operRemoteStatus
           object instance. A true(1) value indicates that traps will be
           generated. A false(2) value suppresses the generation of
           traps. It is recommended that this value be maintained in
           non-volatile storage, for consistency across system
           reboots."
     DEFVAL \{2\} -- false(2)
     ::= { operation 5 }
-- EDACS Software Configuration Group.
-- The EDACS Software Configuration Group provides a common mechanism
-- for identifying the software components and features installed on this
-- entity. This information is useful for identifying and inventorying
-- software installed on an entity, and for diagnosing incompatibility
-- and version mismatch problems between various pieces of software.
-- Implementation of the software configuration group is mandatory
-- for all managed EDACS network elements.
softwareTable OBJECT-TYPE
     SYNTAX SEQUENCE OF SoftwareEntry
     ACCESS not-accessible
     STATUS mandatory
     DESCRIPTION
           "A (conceptual) table of the software components installed
           on this managed element.'
     ::= { software 1 }
  softwareEntry OBJECT-TYPE
     SYNTAX SoftwareEntry
```

```
ACCESS not-accessible
  STATUS mandatory
  DESCRIPTION
         "A (conceptual) entry for a specific software component
         installed on this managed element."
   INDEX { softwareIndex }
   ::= { softwareTable 1 }
SoftwareEntry ::= SEQUENCE {
      softwareIndex
                                SoftwareIndexType,
      softwareType
                                INTEGER,
      softwarePartNumber
                               DisplayString (SIZE (0..128)),
      softwareRevMajorID
                               INTEGER
                                               (0..65535),
      softwareRevMinorID
                               INTEGER
                                               (0..65535),
                              EdacsProductID,
DisplayString (SIZE (0..255)),
      softwareTargetDevice
      softwareDescription
      softwareExtraInfo
                               DisplayString (SIZE (0..255)),
                               DisplayString (SIZE (0..128)),
      softwarePath
      softwareStatus
                                INTEGER,
                              DateAndTime
      softwareInstallDate
   }
softwareIndex OBJECT-TYPE
  SYNTAX SoftwareIndexType
  ACCESS read-only
  STATUS mandatory
  DESCRIPTION
         "A unique value for each software component installed on
        this managed element. This value serves as an index to a
        particular entry in the softwareTable."
   ::= { softwareEntry 1 }
softwareType OBJECT-TYPE
  SYNTAX INTEGER {
        other(1),
        bootstrap(2),
        operatingSystem(3),
        application(4),
        thirdParty(5)
  ACCESS read-only
  STATUS mandatory
  DESCRIPTION
         "The functional type of this software component."
   ::= { softwareEntry 2 }
softwarePartNumber OBJECT-TYPE
  SYNTAX DisplayString (SIZE (0..128))
  ACCESS read-only
  STATUS mandatory
     DESCRIPTION
         "A textual string which provides the part number of this
        software component.
        By convention, this is the Software Media Kit part
        number, including the group number postfix (e.g. an
        identifier used by the customer to reference and/or
        order this specific software component). For example,
         ``350A1103G2''.
        If this software component is a member of a
        Software Media Kit containing multiple part numbers,
        the part number postfix shall be appended in the form of
```

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```
``-Px''; where `x' designates the specific part number.
        For example, ``350A1103G2-P2'' would indicate that this
        software component is identified as Part Number two (2)
        of the software media kit 350A1103G2."
   ::= { softwareEntry 3 }
softwareRevMajorID OBJECT-TYPE
  SYNTAX INTEGER (0..65535)
  ACCESS read-only
  STATUS mandatory
  DESCRIPTION
         "The major revision number of this software component."
   ::= { softwareEntry 4 }
softwareRevMinorID OBJECT-TYPE
  SYNTAX INTEGER (0..65535)
  ACCESS read-only
  STATUS mandatory
  DESCRIPTION
         "The minor revision number of this software component."
   ::= { softwareEntry 5 }
softwareTargetDevice OBJECT-TYPE
  SYNTAX EdacsProductID
  ACCESS read-only
  STATUS mandatory
  DESCRIPTION
         "The product identification of the EDACS (sub)component(s)
        which execute this software component. This value will,
        typically, be the same as the identSysObjectID object
        instance. If this entity is acting as a load host, or
        proxy agent, for some other (sub)component, then this object
        instance may be used to identify that specific target device."
   ::= { softwareEntry 6 }
softwareDescription OBJECT-TYPE
  SYNTAX DisplayString (SIZE (0..255))
  ACCESS read-only
  STATUS mandatory
  DESCRIPTION
        "A textual string describing this software component.
        For example, ``First incremental load segment of the
        Billing Correlation Unit/Centralized Activity Logger''.
        This description should also include any applicable
        copyright or patent notice, as well as any (re)distribution
        restrictions or liabilities."
   ::= { softwareEntry 7 }
softwareExtraInfo OBJECT-TYPE
  SYNTAX DisplayString (SIZE (0..255))
  ACCESS read-only
  STATUS mandatory
  DESCRIPTION
         "A textual string providing any additional information
        describing this software component. For example, ``Provided on
        exception release to customer ABC, for reasons XYZ.''
        If the softwareType value for this component is thirdParty(5),
        then this variable shall provide the manufacturer, revision,
        and module name of this third party software component.
        This object instance will be a null (size 0) string if
        the agent does not have any additional information of
```

```
interest regarding this software component."
   ::= { softwareEntry 8 }
softwarePath OBJECT-TYPE
  SYNTAX DisplayString (SIZE(0..128))
  ACCESS read-only
  STATUS mandatory
  DESCRIPTION
         "A fully qualified path specification identifying the
         location in long-term storage (e.g. a disk drive) where
         this software component is stored. For example,
         ``1.2/loads/BCU.SX''.
         This object instance shall contain a specification of
         ``ROM'' (or similarly designated identification) for
         a software component which is not stored on this
         entity's file system."
   ::= { softwareEntry 9 }
softwareStatus OBJECT-TYPE
               INTEGER {
  SYNTAX
         other(1),
         unknown(2),
         running(3),
         runnable(4),
         notRunnable(5),
         notLoaded(6),
         targetProxied(7)
  ACCESS read-only
  STATUS mandatory
   DESCRIPTION
         "The execution status of this software component."
   ::= { softwareEntry 10 }
softwareInstallDate OBJECT-TYPE
  SYNTAX DateAndTime
  ACCESS read-only
  STATUS mandatory
   DESCRIPTION
               "The last-modification date of this software component as
               it would appear in a directory listing.
               If this information is not known, or not applicable
               (e.g. ROM resident), then this object instance
               shall have the value corresponding to
               January 1, year 0000, 00:00:00.0, which is encoded as (hex)'00 00 01 01 00 00 00 00'."
   ::= { softwareEntry 11 }
softwareFeatureCode OBJECT-TYPE
  SYNTAX OCTET STRING
  ACCESS read-write
  STATUS mandatory
  DESCRIPTION
         "An (encrypted) code which identifies any additional
         software features licensed for operation on this entity.
         Interpretation of the feature code requires examination of
         the relevant identSysObjectID object instance.
         Two disparate methods of encryption are enforced, both of
         which are solely proprietary to Ericsson, Inc., Private
         Radio Systems (PRS) division. For read operations, EDACS
```

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```
network management software is required to decrypt the
           code and provide identification of the installed feature set.
          Write operations are supported for remote upgrades in
           feature capability, under the restricted authority of
           Ericsson PRS software services.
           A prudent agent will recognize that repeated write
           attempts that fail decryption validation may indicate
           an unauthorized attempt to adjust this entity's software
          feature licensing.
           Customers should note that attempts to modify the feature
           code may result in this entity performing a `self-destruct'
           of any additional features provided by this entity. This
           self-destruct will not render the entity in-operable.
           It will, however, result in the entity assuming its
          baseline (minimal) operational configuration. Restoration
           of additional services will require consultation with
           Ericsson PRS software services personnel."
     ::= { software 2 }
-- EDACS File System Group.
-- The EDACS mass storage group provides a common mechanism for
-- managing long-term data storage devices (e.g. disk drives, CD-ROM, etc.).
    Implementation of the mass storage group is mandatory for all managed
___
-- EDACS network elements which contain mass storage devices.
fsDiskTable OBJECT-TYPE
     SYNTAX SEQUENCE OF DiskEntry
     ACCESS not-accessible
     STATUS mandatory
     DESCRIPTION
           "A (conceptual) table of disk oriented storage devices
           resident on this managed network element.
          Note that this table does not include disks which are
           accessed remotely over a network (e.g. NFS mounted)."
     ::= { fileSystem 1 }
  fsDiskEntry OBJECT-TYPE
     SYNTAX DiskEntry
     ACCESS not-accessible
     STATUS mandatory
     DESCRIPTION
           "A (conceptual) entry for each disk oriented storage
           device resident on this managed network element."
           INDEX { fsDiskIndex }
     ::= { fsDiskTable 1 }
  DiskEntry ::= SEQUENCE {
         fsDiskIndex
                                 DiskIndexType,
         fsDiskVolumeName
                                 DisplayString (SIZE (0..255)),
         fsDiskVolumeDescr
                                DisplayString (SIZE (0..255)),
         fsDiskMediaType
                                INTEGER,
         fsDiskAccess
                                INTEGER,
         fsDiskRemovable
                                INTEGER,
         fsDiskBlockSize
                                PositiveInteger32T,
         fsDiskTotalBlocks
                               PositiveInteger32T,
         fsDiskBlocksFree PositiveInteger32T,
         fsDiskPercentBlocksUsed PercentDiskUsed,
         fsDiskTotalInodes
                                PositiveInteger32T,
```

```
fsDiskInodesFree
                                 PositiveInteger32T,
       fsDiskPercentInodesUsed PercentDiskUsed
}
fsDiskIndex OBJECT-TYPE
  SYNTAX DiskIndexType
  ACCESS read-only
STATUS mandatory
  DESCRIPTION
         "A unique value for each disk oriented storage device.
         This value serves as an index to a particular
         entry in the fsDiskTable."
   ::= { fsDiskEntry 1 }
fsDiskVolumeName OBJECT-TYPE
  SYNTAX DisplayString (SIZE (0..255))
  ACCESS read-only
  STATUS mandatory
  DESCRIPTION
         "A textual string describing this disk device.
         By convention, this value is the same as the
        volume name used to identify this disk (e.g. file system
        component)."
   ::= { fsDiskEntry 2 }
fsDiskVolumeDescr OBJECT-TYPE
  SYNTAX DisplayString (SIZE (0..255))
  ACCESS read-only
  STATUS mandatory
  DESCRIPTION
         "A textual string providing any available additional
         information regarding this disk.
        This value should provide information such as
         the vendor, model name and/or part number, and
         firmware version of this file system component.
        This value will be a null (size zero) string if
        the agent does not have any additional information
         available regarding this disk."
   ::= { fsDiskEntry 3 }
fsDiskMediaType OBJECT-TYPE
   SYNTAX INTEGER {
        other(1),
        unknown(2),
        hardDisk(3),
         floppyDisk(4),
         ramDisk(5),
         opticalDiskCDROM(6),
        opticalDiskWORM(7),
        opticalDiskRW(8)
  ACCESS read-only
  STATUS mandatory
   DESCRIPTION
               "An indication of the type of media used by this disk."
   ::= { fsDiskEntry 4 }
fsDiskAccess OBJECT-TYPE
   SYNTAX INTEGER {
        readWrite(1),
        readOnly(2),
        writeOnly(3)
```

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```
ACCESS read-only
  STATUS mandatory
  DESCRIPTION
        "An indication of the access mode currently in force for
        this disk.
        This should reflect the media type, any write-protect
        mechanism, and any device configuration that
         affects the entire disk device accessibility."
   ::= { fsDiskEntry 5 }
fsDiskRemovable OBJECT-TYPE
  SYNTAX INTEGER {
        removable(1)
        notRemovable(2)
   }
  ACCESS read-only
  STATUS mandatory
  DESCRIPTION
               "Denotes whether or not the disk media may be
               removed from the drive."
   ::= { fsDiskEntry 6 }
fsDiskBlockSize OBJECT-TYPE
  SYNTAX PositiveInteger32T
  ACCESS read-only
  STATUS mandatory
  DESCRIPTION
         "The fundamental block size, in bytes (octets), of this disk."
   ::= { fsDiskEntry 7 }
fsDiskTotalBlocks OBJECT-TYPE
  SYNTAX PositiveInteger32T
  ACCESS read-only
  STATUS mandatory
  DESCRIPTION
        "The total number of blocks which this disk provides for
        long-term storage. Note that the fundamental size of
        each block is specified by the fsDiskBlockSize
        object instance."
   ::= { fsDiskEntry 8 }
fsDiskBlocksFree OBJECT-TYPE
  SYNTAX PositiveInteger32T
  ACCESS read-only
  STATUS mandatory
  DESCRIPTION
        "The total number of blocks on this disk which are currently
        available. Note that the fundamental size of
        each block is specified by the fsDiskBlockSize
        object instance."
   ::= { fsDiskEntry 9 }
fsDiskPercentBlocksUsed OBJECT-TYPE
  SYNTAX PercentDiskUsed
  ACCESS read-only
  STATUS mandatory
  DESCRIPTION
        "The (coarse) percentage of disk storage capacity,
        with regard to blocks, which has been consumed.
        Note that this value may be more accurately calculated
```

```
from the fsDiskTotalBlocks and fsDiskBlocksFree
           object instances. This value is intended to provide
           network management stations with a convenient object instance
           for monitoring disk utilization."
     ::= { fsDiskEntry 10 }
  fsDiskTotalInodes OBJECT-TYPE
     SYNTAX PositiveInteger32T
     ACCESS read-only
     STATUS mandatory
     DESCRIPTION
           "The total number of file descriptors/inodes
           (e.g. ordinary files, directories, links, etc.) which this
           disk provides for long-term storage.
           This value will always be zero for disks which are part
           of a file system that does not implement the concept
           of an inode."
     ::= { fsDiskEntry 11 }
  fsDiskInodesFree OBJECT-TYPE
     SYNTAX PositiveInteger32T
     ACCESS read-only
     STATUS mandatory
     DESCRIPTION
           "The total number of file descriptors/inodes
           (e.g. ordinary files, directories, links, etc.)
           which are currently available.
           This value will always be zero for disks which are part
           of a file system that does not implement the concept
           of an inode."
     ::= { fsDiskEntry 12 }
  fsDiskPercentInodesUsed OBJECT-TYPE
     SYNTAX PercentDiskUsed
     ACCESS read-only
     STATUS mandatory
     DESCRIPTION
           "The (coarse) percentage of disk storage capacity,
           with regard to file descriptors/inodes, which has been consumed.
           Note that this value may be more accurately calculated
           from the fsDiskTotalInodes and fsDiskInodesFree
           object instances. This value is intended to provide network management stations with a convenient object
           instance for monitoring disk utilization.
           This value will always be zero for disks which are part
           of a file system that does not implement the concept
           of an inode."
     ::= { fsDiskEntry 13 }
-- SNMP Trap Destination Group.
-- The trap destination group is mandatory for all managed EDACS network
-- elements.
trapSequenceNumber OBJECT-TYPE
     SYNTAX Counter
     ACCESS read-only
```

```
STATUS mandatory
  DESCRIPTION
        "The sequence number used in the most recent trap packet(s)
        which this entity has sent. This counter is incremented each
        time a particular trap type is sent to one, or more, network
        management stations."
   ::= { trap 1 }
trapDestinationNumber OBJECT-TYPE
  SYNTAX Gauge
  ACCESS read-only
  STATUS mandatory
  DESCRIPTION
        "The number of trap destinations in affect for this agent.
        Note that this variable corresponds to the number of
         `valid' entries in the trapDestinationTable, and
        may not directly reflect the actual size of said table."
   ::= { trapDestination 1 }
trapDestinationTable OBJECT-TYPE
  SYNTAX SEQUENCE OF TrapDestinationEntry
  ACCESS not-accessible
  STATUS mandatory
  DESCRIPTION
        "A (conceptual) table which lists the (NMS) network
        addresses to which this agent will send traps.
        Note that most agents will implement this table with
        a fixed maximum number of entries, as opposed to
        employing dynamic row create and delete operations.
        Accordingly, management stations must be prepared to
        receive tabular entries not associated with a valid
        network address. By convention, an IP address of either
        0.0.0.0 or 255.225.255.255 is used to delineated such
        an address."
   ::= { trapDestination 2 }
trapDestinationEntry OBJECT-TYPE
  SYNTAX TrapDestinationEntry
  ACCESS not-accessible
  STATUS mandatory
  DESCRIPTION
        "Each (conceptual) entry contains the network address of a
        management station to which traps will be sent."
  INDEX { trapDestinationAddr }
   ::= { trapDestinationTable 1 }
TrapDestinationEntry ::= SEQUENCE {
        trapDestinationAddr IpAddress
}
trapDestinationAddr OBJECT-TYPE
  SYNTAX IpAddress
  ACCESS read-write
  STATUS mandatory
  DESCRIPTION
         "A network address to which this agent will send traps.
        Setting this value to an IP address of either 0.0.0.0
        or 255.225.255.255 effectively invalidates this entry (e.g.
        the agent shall never attempt to send a trap to either of
        these two addresses). It is an implementation-specific matter
        as to whether the agent removes an invalidated entry from the
```

```
table, or simply replaces said entry with the invalid address.
          A prudent agent should return a `badValue' if an attempt is
          made to set the destination to the same value as the
          agents network address. It is further recommended that the
          agent reject any destination to which no network route is
          currently known."
     ::= { trapDestinationEntry 1 }
-- Trap History Group.
    Implementation of the trap history group is optional, but strongly
-- recommended.
trapSentTable OBJECT-TYPE
     SYNTAX SEQUENCE OF TrapSentEntry
     ACCESS not-accessible
     STATUS mandatory
     DESCRIPTION
           "A (conceptual) table which provides a list of the traps
          most recently sent to some network management station(s)."
     ::= { trapHistory 1 }
  trapSentEntry OBJECT-TYPE
     SYNTAX TrapSentEntry
     ACCESS not-accessible
     STATUS mandatory
     DESCRIPTION
           "A (conceptual) entry in the trapSentTable. Each
          conceptual row describes the last trap packet sent to a
           specific network management station."
     INDEX { trapSentIpAddress }
     ::= { trapSentTable 1 }
  TrapSentEntry ::= SEQUENCE {
           trapSentIpAddress IpAddress,
           trapSentSeqNumber Counter,
          trapSentTime
                            TimeTicks,
          trapSentGeneric
                            INTEGER,
          trapSentSpecific
                            INTEGER,
          trapSentVblItems
                            INTEGER
  }
  trapSentIpAddress OBJECT-TYPE
     SYNTAX IpAddress
     ACCESS read-only
     STATUS mandatory
     DESCRIPTION
           "The network (IP) address of a network management station
           to which this entity has last sent a trap."
     ::= { trapSentEntry 1 }
  trapSentSeqNumber OBJECT-TYPE
     SYNTAX Counter
     ACCESS read-only
     STATUS mandatory
     DESCRIPTION
           "The sequence number of the trap packet used when this
           entity sent the trap to this network management station."
     ::= { trapSentEntry 2 }
  trapSentTime OBJECT-TYPE
```

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```
SYNTAX TimeTicks
     ACCESS read-only
     STATUS mandatory
     DESCRIPTION
          "The value of sysUpTime when the trap was sent to this
          network management station."
     ::= { trapSentEntry 3 }
  trapSentGeneric OBJECT-TYPE
     SYNTAX INTEGER {
              other(1), -- None of the following, which is an error.
              coldStart(2),
              warmStart(3),
              linkUp(4),
              linkDown(5),
              authenticationFailure(6),
              egpNeighborLoss(7),
              enterpriseSpecific(8)
     }
     ACCESS read-only
     STATUS
            mandatory
     DESCRIPTION
          "The `generic-trap' code value of the trap sent to this
          network management station."
     ::= { trapSentEntry 4 }
  trapSentSpecific OBJECT-TYPE
     SYNTAX INTEGER
     ACCESS read-only
     STATUS mandatory
     DESCRIPTION
          "The `specific-trap' code value of the trap sent to this
          network management station."
     ::= { trapSentEntry 5 }
  trapSentVblItems OBJECT-TYPE
     SYNTAX INTEGER
     ACCESS
            read-only
     STATUS mandatory
     DESCRIPTION
          "The number of Variable Binding List (VBL) items contained
          in the trap sent to this network management station."
     ::= { trapSentEntry 6 }
-- SNMPv1 Authentication Failure History.
___
     Implementation of the authFailTable is optional, although strongly
-- recommended.
authFailTable OBJECT-TYPE
     SYNTAX SEQUENCE OF AuthFailEntry
               not-accessible
     ACCESS
     STATUS
              mandatory
     DESCRIPTION
          "A (conceptual) table which provides a list of network
          management stations that have caused an SNMPv1 authentication
          failure in an attempt to access this entity."
     ::= { authentication 1 }
  authFailEntry OBJECT-TYPE
     SYNTAX
               AuthFailEntry
               not-accessible
     ACCESS
```

```
STATUS
                mandatory
     DESCRIPTION
          "A (conceptual) entry in the authentication failure table.
          Each entry contains, and is indexed by, the IP address of
          the management station which caused the authentication
           failure."
     INDEX { authFailIpAddress }
     ::= { authFailTable 1 }
  AuthFailEntry ::= SEQUENCE {
        authFailIpAddress
                                 IpAddress,
        authFailTime
                                 TimeTicks,
                                 OCTET STRING
        authFailCommunityName
  }
  authFailIpAddress OBJECT-TYPE
     SYNTAX
               IpAddress
     ACCESS
                read-only
     STATUS
                mandatory
     DESCRIPTION
          "The IP address of the management station that sent a
           request to this agent with an incorrect community name."
     ::= { authFailEntry 1 }
  authFailTime OBJECT-TYPE
               TimeTicks
     SYNTAX
     ACCESS
                read-only
     STATUS
               mandatory
     DESCRIPTION
           "The value of sysUpTime when this entity received the
          un-authenticated request."
     ::= { authFailEntry 2 }
  authFailCommunityName OBJECT-TYPE
               OCTET STRING
     SYNTAX
                read-only
     ACCESS
     STATUS
                mandatory
     DESCRIPTION
          "The community name used in the failed request."
     ::= { authFailEntry 3 }
-- SNMP Trap Definitions:
operResetEventTrap TRAP-TYPE
     ENTERPRISE edacs
     VARIABLES { trapSequenceNumber,
                 operRemoteReset }
     DESCRIPTION
           "An indication that the sending entity is in the process
          of performing a complete system reset. The operRemoteReset
          object instance contains the current state of the reset
          process, which will (typically) be either inProgress(3)
          or finalNotice(4)."
     ::= 10000
  operStatusEventTrap TRAP-TYPE
     ENTERPRISE edacs
     VARIABLES { trapSequenceNumber,
                 operRemoteStatus }
     DESCRIPTION
           "An indication that the sending entity has detected a
```

```
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```

```
significant change in it's operational status. The
    operRemoteStatus object instance contains the
    the current operational state."
    ::= 10001
END
```

A.3. edacs102.mib

```
-- File:
           edacs102.mib
-- Title:
           EDACS Alarm-Threshold Management Information Base
____
___
           Copyright (C) 1995, Ericsson, Inc.
___
           Private Radio Systems (PRS) Division.
           All Rights Reserved.
___
____
-- PRS MIB STATUS:
                      PRELIMINARY
____
-- Description:
_ _
-- (1)
    The EDACS Alarm-Threshold MIB provides a flexible method for Network
_ _
-- Management Station(s) (NMS) to control the sampling of any integer SNMP
-- object on an EDACS server-agent. The periodic samples are compared to
-- a user configurable set of threshold values. If a sample crosses a
-- threshold, an event will be generated. This event may be configured
-- to result in the generation of an SNMP TRAP to one or more NMS.
-- The variables contained in the TRAP PDU are manifested at the end of
-- this document. Only variables that resolve to an ASN.1 primitive type
-- of INTEGER (INTEGER, Counter, Gauge, or TimeTicks) may be monitored
-- with this MIB.
    Two methods of sampling a selected variable are supported, which control
-- calculating the value to be compared against the thresholds (see
-- alarmThreshSampleType). absoluteValue(1) specifies that the value of
-- the selected variable will be compared directly with the thresholds at
-- the end of the sampling interval. deltaValue(2) specifies that the value
-- of the selected variable at the last sample will be subtracted from the
-- current value, and the difference compared with the thresholds.
___
___
    It should be noted that deltaValue(2) sampling has the potential to
-- generate a large number of rising and falling threshold crossings in a
-- a short period of time. The sample time and threshold values should
-- be chosen to avoid this problem. Also this simple threshold method may
-- not catch changes that occur across sample boundaries. This effect
-- can be minimized by reducing the sample interval.
    The Alarm-Threshold function has a hysteresis mechanism to limit
-- the generation of events. This mechanism generates one event as a
-- threshold is crossed in the appropriate direction. No more events are
-- generated for that threshold until the opposite threshold is crossed.
____
    The Alarm-Threshold MIB employs two disparate notions of alarm entry
_ _
-- `ownership', which govern NMS abilities to SET certain aspects of
-- said alarm entries (see alarmThreshOwner). Specifically, one set of
-- alarm entries are owned by the server-agent resident on this entity,
-- which are responsible for monitoring certain mission critical variables.
-- A second set of alarm variable(s) may be imposed upon the target
-- entity, on behalf of an NMS, for monitoring variables deemed of
-- significance to the end user.
___
-- (2)
___
    All EDACS network elements which provide alarming of threshold
```
```
-- oriented conditions shall adhere their implementation to this MIB.
____
-- NOTICE:
-- (1) The information in this document is subject to change without notice.
___
     Ericsson Inc. assumes no responsibility for any errors that may
___
      appear in this document.
EDACS-ALARM-THRESHOLD-MIB DEFINITIONS ::= BEGIN
  IMPORTS
     enterprises FROM RFC1155-SMI
TimeTicks FROM RFC1155-SMI
                     FROM RFC1155-SMI
     IpAddress
     OBJECT-TYPE
                     FROM RFC-1212
                     FROM RFC1213-MIB
     DisplayString
     TRAP-TYPE
                      FROM RFC-1215
     trapSequenceNumber FROM EDACS-ME-COMMON-MIB;
  -- Object identifiers
  ericsson
                      OBJECT IDENTIFIER ::= { enterprises 193 }
                     OBJECT IDENTIFIER ::= { ericsson 10 }
  edacs
                    OBJECT IDENTIFIER ::= { edacs 1 }
  system
                     OBJECT IDENTIFIER ::= { system 3 }
  alarm
  alarmThreshold
                  OBJECT IDENTIFIER ::= { alarm 1 }
alarmThreshNextIndex OBJECT-TYPE
     SYNTAX INTEGER (1..65535)
     ACCESS read-only
     STATUS mandatory
     DESCRIPTION
          "The index of the next available entry in the alarm threshold
          table. If the maximum number of entries to the alarm
          table has been reached, this index will contain -1."
     ::= { alarmThreshold 1 }
  alarmThreshMinInterval OBJECT-TYPE
     SYNTAX TimeTicks
     ACCESS read-only
     STATUS mandatory
     DESCRIPTION
          "The minimum sampling interval that this agent can support.
          Any attempt to set alarmThreshInterval to a shorter
          interval will result in a `badValue' response."
     ::= { alarmThreshold 2 }
  alarmThreshDefaultInterval OBJECT-TYPE
     SYNTAX TimeTicks
     ACCESS read-write
     STATUS mandatory
     DESCRIPTION
           "The default sampling interval. This value will be used
          as the default value for alarmThreshInterval when a new
          alarmThreshEntry is created. This value may not be set
          lower than alarmThreshMinInterval."
     ::= { alarmThreshold 3 }
  alarmThreshTable OBJECT-TYPE
     SYNTAX SEQUENCE OF AlarmThreshEntry
```

```
ACCESS not-accessible
  STATUS mandatory
  DESCRIPTION
        "A (conceptual) table which contains a list of alarm threshold
        entries maintained on this entity."
  ::= { alarmThreshold 4 }
alarmThreshEntry OBJECT-TYPE
  SYNTAX AlarmThreshEntry
  ACCESS not-accessible
  STATUS mandatory
  DESCRIPTION
        "A (conceptual) entry in the alarmThreshTable.
        Each entry contains a list of parameters that set up a periodic
        checking for alarm threshold conditions."
  INDEX { alarmThreshIndex }
  ::= { alarmThreshTable 1 }
AlarmThreshEntry ::= SEQUENCE {
      alarmThreshIndex
                                      INTEGER (1..65535),
      alarmThreshStatus
                                      INTEGER,
      alarmThreshOwner
                                     DisplayString (SIZE(0..127)),
      alarmThreshVariable
                                     OBJECT IDENTIFIER,
      alarmThreshSampleType
                                    INTEGER,
      alarmThreshValue
                                     INTEGER,
                                 TimeTicks,
TimeTicks,
      alarmThreshLastTimeSampled
      alarmThreshInterval
      alarmThreshPermanence
                                     INTEGER,
      alarmThreshStartupAlarm
                                     INTEGER,
      alarmThreshRisingThreshold
                                    INTEGER,
      alarmThreshFallingThreshold INTEGER,
      alarmThreshRisingDescription DisplayString (SIZE(0..255)),
      alarmThreshFallingDescription DisplayString (SIZE(0..255)),
      alarmThreshNotifyThisNMS
                                      IpAddress,
                                      TimeTicks,
      alarmThreshLastRisingSent
      alarmThreshLastFallingSent
                                      TimeTicks
    }
alarmThreshIndex OBJECT-TYPE
  SYNTAX INTEGER (1..65535)
  ACCESS read-only
  STATUS mandatory
  DESCRIPTION
           "An index that uniquely identifies an entry in the
          alarm table. Each such entry defines a diagnostic sample at a
          particular interval for an object on the device."
  ::= { alarmThreshEntry 1 }
alarmThreshStatus OBJECT-TYPE
  SYNTAX INTEGER {
        enabled(1),
        disabled(2),
        createRequest(3),
        underCreation(4),
        deleteRequest(5),
        tempUnavailable(6)
  }
  ACCESS read-write
  STATUS mandatory
  DESCRIPTION
       "The status of this alarm entry.
       Setting this object to the value enabled(1) has the
```

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effect of initiating monitoring according to the value of alarmThreshSampleType. It also enables the generation of rising and falling traps as specified by alarmThreshRisingThreshold and alarmThreshFallingThreshold. While this object has a status of enabled(1) none of the object's monitoring parameters may be changed. Any attempt to change one of these parameters will return badValue.

Setting this object to the value disable(2) disables all variable monitoring and trap generation. It is used to temporarily disable an alarm, or to make changes in the monitoring parameters that cannot be done while the object is enabled(1).

An existing instance of this object cannot be set to createRequest(3). A new object can be created using an index obtained from alarmThreshNextIndex and setting the object to the value createRequest(3). When this object is created, the agent may wish to create supplemental object instances to complete a conceptual row in this table. Immediately after completing the create operation, the agent must set this object to underCreation(4).

Entries shall exist in the underCreation(4) state until the management station is finished configuring the entry and sets this object to enabled(1), disabled(2), or aborts the entry by setting this object to deleteRequest(5). The agent will deny a request to modify an underCreation(4) entry to be that of createRequest(3) in order to lessen problems arising when multiple management stations may be trying to add an entry with the same index. If the agent determines that an entry has been in the underCreation(4) state for an abnormally long time, it may decide that the management station has crashed. If the agent makes this decision, it may delete the object to reclaim the entry. A prudent agent will understand that the management station may need to wait for human input and will allow for that possibility in its determination of this abnormally long period.

Setting this object to the value deleteRequest(5) will remove the entry from the table.

If the agent has an entry which is enabled(1) and it is unable to query the particular ASN.1 object specified, the agent should set the status to tempUnavailable(6). The agent should continue to query that ASN.1 object, and upon a successful query, the agent should set the status back to enabled(1). If the sample type is deltaValue(2), the value of alarmThreshValue will be set to 0 (No trap will be generated.) and delta sampling will begin again at the end of the next sample interval." ::= { alarmThreshEntry 2 }

alarmThreshOwner OBJECT-TYPE SYNTAX DisplayString (SIZE (0..127)) ACCESS read-write STATUS mandatory DESCRIPTION "The entity that configured this entry and is therefore using the resources assigned to it.

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This string is used to model an administratively assigned name of the owner of a resource. This information is taken from the NVT ASCII character set. It is suggested that this name contain one or more of the following: IP address, management station name, network manager's name, location, or phone number. In some cases the agent itself will be the owner of an entry. In these cases, this string shall be set to a string starting with `monitor'. SNMP access control is articulated entirely in terms of the contents of MIB views; access to a particular SNMP object instance depends only upon its presence or absence in a particular MIB view and never upon its value or the value of related object instances. Thus, objects of this type afford resolution of resource contention only among cooperating managers; they realize no access control function with respect to uncooperative parties." ::= { alarmThreshEntry 3 } alarmThreshVariable OBJECT-TYPE SYNTAX OBJECT IDENTIFIER ACCESS read-write STATUS mandatory DESCRIPTION "The object identifier of the particular variable to be sampled. Only variables that resolve to an ASN.1 primitive type of INTEGER (INTEGER, Counter, Gauge, or TimeTicks) may be sampled. Because SNMP access control is articulated entirely in terms of the contents of MIB views, no access control mechanism exists that can restrict the value of this object to identify only those objects that exist in a particular MIB view. Because there is thus no acceptable means of restricting the read access that could be obtained through the alarm mechanism, the agent must only grant write access to this object in those views that have read access to all objects on the agent. During a set operation, if the supplied variable name is not available in the selected MIB view, a badValue error must be returned. If at any time the variable name of an established alarmThreshEntry is no longer available in the selected MIB view, the agent must change the status of this alarmThreshEntry to tempUnavailable(6). This object may not be modified if the associated alarmThreshStatus object is equal to enabled(1)." ::= { alarmThreshEntry 4 } alarmThreshSampleType OBJECT-TYPE SYNTAX INTEGER { absoluteValue(1), deltaValue(2) ACCESS read-write STATUS mandatory

```
DESCRIPTION
               "The method of sampling the selected variable and
               calculating the value to be compared against the
               thresholds. If the value of this object is
               absoluteValue(1), the value of the selected variable
              will be compared directly with the thresholds at the
               end of the sampling interval. If the value of this
              object is deltaValue(2), the value of the selected
               variable at the last sample will be subtracted from
               the current value, and the difference compared with
               the thresholds.
              This object may not be modified if the associated
               alarmThreshStatus object is equal to enabled(1)."
   ::= { alarmThreshEntry 5 }
alarmThreshValue OBJECT-TYPE
  SYNTAX INTEGER
  ACCESS read-only
  STATUS mandatory
   DESCRIPTION
         "The value of the object identifier (alarmThreshVariable)
          during the last sampling period. The value during the
          current sampling period is not made available until
          the period is completed.
          If the sample type (alarmThreshSampleType) is
          absoluteValue(1), the value (alarmThreshValue) should
          become the actual value obtained during this sampling
          period.
          If the sample type (alarmThreshSampleType) is
          deltaValue(2), the value (alarmThreshValue) will be
          0 when the entry's status is first set to enabled(1).
          However, this will NOT generate any traps (even if the
          falling threshold is greater than 0.)
          The value (alarmThreshValue) should become the most
          recently sampled value minus the previous sample."
   ::= { alarmThreshEntry 6 }
alarmThreshLastTimeSampled OBJECT-TYPE
  SYNTAX TimeTicks
  ACCESS read-only
  STATUS mandatory
   DESCRIPTION
         "The value of sysUpTime at which the current value of
         alarmThreshValue was sampled."
   ::= { alarmThreshEntry 7 }
alarmThreshInterval OBJECT-TYPE
  SYNTAX TimeTicks
  ACCESS read-write
  STATUS mandatory
   DESCRIPTION
           "The interval in TimeTicks over which the data is
           sampled and compared with the rising and falling
           thresholds. When setting this variable, care
           should be given to ensure that the variable being
           monitored will not exceed 2^31 - 1 and roll
           over the alarmThreshValue object during the interval.
           This value may not be set less than the value of
           alarmThreshMinInterval.
```

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```
The first sample will be taken immediately upon the
           alarmThreshStatus being set to enabled(1).
           This object may not be modified if the associated
           alarmThreshStatus object is equal to enabled(1)."
     ::= { alarmThreshEntry 8 }
alarmThreshPermanence OBJECT-TYPE
   SYNTAX INTEGER {
          temporary(1),
          permanent(2)
  ACCESS read-write
  STATUS mandatory
   DESCRIPTION
           "The storage method for this entry.
           If set to temporary(1) this entry will be stored only in
           volatile memory and may be deleted if the network
           management system is re-initialized.
           If set to permanent(2) this entry will be stored in some
           form of non-volatile storage and will be maintained
           between re-initializations of the network management
           system. NOTE: A re-initialization may have the same
           effect as setting enabled(1) entries to disabled(2) and
           then setting them back to enabled(1). In particular the
           values of alarmThreshLastTimeSampled,
           alarmThreshLastRisingSent, and alarmThreshLastFallingSent
           will be reset."
   ::= { alarmThreshEntry 9 }
alarmThreshStartupAlarm OBJECT-TYPE
   SYNTAX INTEGER {
          risingAlarm(1),
          fallingAlarm(2),
          risingOrFallingAlarm(3)
  ACCESS read-write
  STATUS mandatory
   DESCRIPTION
             "The alarm that may be sent when this entry is first
             set to enabled(1).
             If the sample type (alarmThreshSampleType) is
             absoluteValue(1), then the following comparison is used
             to generate an event. If alarmThreshStartupAlarm is equal
             to risingAlarm(1) or risingOrFallingAlarm(3), then a
             single event will be generated if the first sample after
             this entry becomes enabled is greater than or equal to this
             threshold. If alarmThreshStartupAlarm is equal to
             fallingAlarm(2) or risingOrFallingAlarm(3), then a
             single event will be generated if the first sample
             after this entry becomes enabled is less than or equal to
             this threshold.
             If the first sample after this entry
             becomes enabled is greater than or equal to the
             rising threshold and alarmThreshStartupAlarm is equal to
             risingAlarm(1) or risingOrFallingAlarm(3), then a
single rising alarm will be generated. If the first
             sample after this entry becomes enabled is less than
             or equal to the falling threshold and
```

alarmThreshStartupAlarm is equal to fallingAlarm(2) or risingOrFallingAlarm(3), then a single falling alarm will be generated. This object may not be modified if the associated alarmThreshStatus object is equal to enabled(1)." ::= { alarmThreshEntry 10 } alarmThreshRisingThreshold OBJECT-TYPE SYNTAX INTEGER ACCESS read-write STATUS mandatory DESCRIPTION "A threshold for the sampled object identifier (alarmThreshVariable). If the sample type (alarmThreshSampleType) is absoluteValue(1), then the following describes the comparison. When the current sampled value is greater than or equal to this threshold, and the value (alarmThreshValue) at the last sampling interval was less than this threshold, a single event will be generated. If alarmThreshStartupAlarm is equal to risingAlarm(1) or risingOrFallingAlarm(3), then a single event will be generated if the first sample after this entry becomes enabled is greater than or equal to this threshold. After a rising event is generated, another such event will not be generated until the sampled value falls below this threshold and reaches the falling threshold (alarmThreshFallingThreshold). If the sample type (alarmThreshSampleType) is deltaValue(2), then the following describes the comparison. When the most recently sampled value minus the previous sampled value is greater than or equal to the threshold (alarmThreshRisingThreshold), and the current alarm value (alarmThreshValue) is less than the threshold value (alarmThreshRisingThreshold) a single event will be generated. After a rising event is generated, another such event will not be generated until the most recently sampled value minus the previous sampled value falls below this threshold (alarmThreshRisingThreshold) and reaches the falling threshold (alarmThreshFallingThreshold). This object may not be modified if the associated alarmThreshStatus object is equal to enabled(1)." ::= { alarmThreshEntry 11 } alarmThreshFallingThreshold OBJECT-TYPE SYNTAX INTEGER ACCESS read-write STATUS mandatory DESCRIPTION "A threshold for the sampled object identifier (alarmThreshVariable). If the sample type (alarmThreshSampleType) is absoluteValue(1), then the following describes the comparison. When the current sampled value is less than or equal to this threshold, and the value

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(alarmThreshValue) at the last sampling interval was greater than this threshold, a single event will be generated. If alarmThreshStartupAlarm is equal to fallingAlarm(2) or risingOrFallingAlarm(3), then a single event will be generated if the first sample after this entry becomes enabled is less than or equal to this threshold. After a falling event is generated, another such event will not be generated until the sampled value rises above this threshold and reaches the rising threshold (alarmThreshRisingThreshold). If the sample type (alarmThreshSampleType) is deltaValue(2), then the following describes the comparison. When the most recently sampled value minus the previous sampled value is less than or equal to the threshold (alarmThreshFallingThreshold), and the current alarm value (alarmThreshValue) is greater than the threshold value (alarmThreshFallingThreshold) a single event will be generated. After a falling event is generated, another such event will not be generated until the most recently sampled value minus the previous sampled value rises above this threshold (alarmThreshFallingThreshold) and reaches the rising threshold (alarmThreshRisingThreshold). This object may not be modified if the associated alarmThreshStatus object is equal to enabled(1)." ::= { alarmThreshEntry 12 } alarmThreshRisingDescription OBJECT-TYPE SYNTAX DisplayString (SIZE (0..255)) ACCESS read-write STATUS mandatory DESCRIPTION "A description of the rising alarm." ::= { alarmThreshEntry 13 } alarmThreshFallingDescription OBJECT-TYPE SYNTAX DisplayString (SIZE (0..255))

ACCESS read-write STATUS mandatory DESCRIPTION "A description of the falling alarm." ::= { alarmThreshEntry 14 } alarmThreshNotifyThisNMS OBJECT-TYPE SYNTAX IpAddress ACCESS read-write STATUS mandatory DESCRIPTION "The IP address of the network management station that desires notification of any threshold crossings. If set to 0.0.0.0, the agent will send threshold traps to all network management stations which have an entry in this entity's trapDestinationTable." ::= { alarmThreshEntry 15 } alarmThreshLastRisingSent OBJECT-TYPE SYNTAX TimeTicks ACCESS read-only STATUS mandatory

DESCRIPTION

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```
"The value of sysUpTime at the time this alarm entry last
            generated a rising threshold event which resulting in the
            sending of an SNMP TRAP to one or more NMS. If this entry
            has not generated any such events, this value will be zero."
     ::= { alarmThreshEntry 16 }
  alarmThreshLastFallingSent OBJECT-TYPE
     SYNTAX TimeTicks
     ACCESS read-only
     STATUS mandatory
     DESCRIPTION
            "The value of sysUpTime at the time this alarm entry last
            generated a falling threshold event which resulting in the
            sending of an SNMP TRAP to one or more NMS. If this entry
            has not generated any such events, this value will be zero."
     ::= { alarmThreshEntry 17 }
-- Alarm Threshold Trap Definitions
alarmRisingThresholdTrap TRAP-TYPE
     ENTERPRISE edacs
     VARIABLES { trapSequenceNumber,
                 alarmThreshVariable,
                 alarmThreshSampleType,
                 alarmThreshValue,
                 alarmThreshRisingThreshold,
                 alarmThreshOwner,
                 alarmThreshIndex }
     DESCRIPTION
          "Rising Threshold passed.
           An alarm entry has crossed its rising threshold. The
           instances of those objects contained within the variable
           list are those of the alarm entry which generated this trap."
     ::= 10010
  alarmFallingThresholdTrap TRAP-TYPE
     ENTERPRISE edacs
     VARIABLES { trapSequenceNumber,
                 alarmThreshVariable,
                 alarmThreshSampleType,
                 alarmThreshValue,
                 alarmThreshFallingThreshold,
                 alarmThreshOwner,
                 alarmThreshIndex }
     DESCRIPTION
          "Falling Threshold passed.
           An alarm entry has crossed its falling threshold. The
           instances of those objects contained within the variable
           list are those of the alarm entry which generated this trap."
     ::= 10011
    END
```

A.4. edacs103.mib

```
-- File:
         edacs103.mib
-- Title:
            EDACS Site Level Performance
___
         Management Information Base
___
         Copyright (C) 1995, Ericsson, Inc.
         Private Radio Systems (PRS) Division.
_ _
         All Rights Reserved.
_ _
-- PRS MIB STATUS:
                   PRELIMINARY
_ _
-- Description:
   This MIB specifies performance information available at the EDACS
_ _
-- Site level.
____
-- Notice:
-- (1) The information in this document is subject to change without notice.
     Ericsson Inc. assumes no responsibility for any errors that may
     appear in this document.
EDACS-SITE-PERFORMANCE-MIB DEFINITIONS ::= BEGIN
  IMPORTS
                   FROM RFC1155-SMI
    enterprises
    Counter
                   FROM RFC1155-SMI
     TimeTicks
                   FROM RFC1155-SMI
                   FROM RFC-1212;
     OBJECT-TYPE
  -- Object Identifiers
  ericsson
                   OBJECT IDENTIFIER ::= { enterprises 193 }
                   OBJECT IDENTIFIER ::= { ericsson 10 }
  edacs
                   OBJECT IDENTIFIER ::= { edacs 1 }
  system
                   OBJECT IDENTIFIER ::= { system 4 }
  site
  sitePerformance
                   OBJECT IDENTIFIER ::= { site 2 }
  -- Textual conversions
  SiteNumberType ::= INTEGER (1..64)
   ChannelNumberType ::= INTEGER (1..32)
-- Site level total statistics summary information.
siteTotalTable OBJECT-TYPE
    SYNTAX SEQUENCE OF SiteTotalEntry
    ACCESS not-accessible
STATUS mandatory
    DESCRIPTION
          "A (conceptual) table which contains a summary of total
         statistics for EDACS sites."
     ::= { sitePerformance 1 }
```

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```

```
siteTotalEntry OBJECT-TYPE
   SYNTAX SiteTotalEntry
   ACCESS not-accessible
   STATUS mandatory
   DESCRIPTION
         "A (conceptual) entry in the siteTotalTable which contains
         statistics information for a particular EDACS site."
   INDEX { siteTotalNumber }
   ::= { siteTotalTable 1 }
SiteTotalEntry ::= SEQUENCE {
       siteTotalNumberSITENumberlype,siteTotalEntityIDOBJECT IDENTIFIER,siteTotalMibExtensionOBJECT IDENTIFIER,siteTotalSampleIntervalTimeTicks,siteTotalAssignedCounter,
       siteTotalNumber
                                         SiteNumberType,
       siteTotalAssignedEmergencies Counter,
siteTotalAssignedSecondary Counter,
siteTotalAssignedMsgTrunked Counter,
                                          Counter,
       siteTotalDropped
       siteTotalOueued
                                          Counter,
       siteTotalDenied
                                          Counter,
                                          Counter,
       siteTotalSysBusy
                                      Counter,
Counter,
Counter,
       siteTotalChanKeys
       siteTotalChanUnKeys
       siteTotalCktTime
                                         TimeTicks,
                                          TimeTicks
       siteTotalCktQTime
   }
siteTotalNumber OBJECT-TYPE
   SYNTAX SiteNumberType
   ACCESS read-only
   STATUS mandatory
   DESCRIPTION
         "A unique value for each EDACS site, which serves as an index
         to a particular (conceptual) entry in the siteTotalTable.
         By convention, this value is identical to the `actual' number
         administratively assigned to this site. For example, a
         value of five (5) literally identifies `site 5'.
         Note that the siteTotalNumber object instance is also used
         as an index to a specific entry in the siteTotalTable.
         Thus, management stations must be prepared to receive
         tabular information whose instance identification is not
         ordinately based with regard to it's (conceptual) position
         in the siteTotalTable."
   ::= { siteTotalEntry 1 }
siteTotalEntityID OBJECT-TYPE
   SYNTAX OBJĒCT IDENTIFIER
   ACCESS read-only
   STATUS mandatory
   DESCRIPTION
          "The authoritative identification of the EDACS product which
         is providing the accessibility information for this site
         (a `conceptual row' in the siteTotalTable)."
   ::= { siteTotalEntry 2 }
siteTotalMibExtension OBJECT-TYPE
   SYNTAX OBJECT IDENTIFIER
   ACCESS read-only
   STATUS mandatory
```

```
DESCRIPTION
         "A reference to a MIB definition which this entity implements
         for extended information regarding sites.
        If this extension information is not present, then the
        siteTotalMibExtension object instance value shall be
        OBJECT IDENTIFIER { 0 0 }, which is a syntactically valid
        object identifier."
   ::= { siteTotalEntry 3 }
siteTotalSampleInterval OBJECT-TYPE
  SYNTAX TimeTicks
  ACCESS read-write
  STATUS mandatory
  DESCRIPTION
         "The time interval, expressed in hundredths of a second,
        during which statistics have been collected for this site.
        The only value a management station may attempt to set is
        zero (0), which has the effect of resetting the
        accessibility statistics for this site to zero. If this
        entity does not support resetting the statistics, or a value
        other than zero is attempted to be written, then a `badValue'
        should be returned."
   ::= { siteTotalEntry 4 }
siteTotalAssigned OBJECT-TYPE
  SYNTAX Counter
  ACCESS read-only
  STATUS mandatory
  DESCRIPTION
         "The total number of successful resource (e.g. channel)
        allocations that this site has performed."
   ::= { siteTotalEntry 5 }
siteTotalAssignedEmergencies OBJECT-TYPE
  SYNTAX Counter
  ACCESS read-only
  STATUS mandatory
  DESCRIPTION
         "The total number of successful resource (e.g. channel)
        allocations provided for emergency calls.
        Note that this counter is included in the siteTotalCallAssigned
        object instance."
   ::= { siteTotalEntry 6 }
siteTotalAssignedSecondary OBJECT-TYPE
  SYNTAX Counter
  ACCESS read-only
  STATUS mandatory
  DESCRIPTION
         "The total number of successful resource (e.g. channel)
        allocations made by this site for which this site was not
        the originating entity for a multi-site call.
        Note that this counter is included in the siteTotalCallAssigned
        object instance."
   ::= { siteTotalEntry 7 }
siteTotalAssignedMsgTrunked OBJECT-TYPE
  SYNTAX Counter
  ACCESS read-only
  STATUS mandatory
  DESCRIPTION
```

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```
"The total number of successful resource (e.g. channel)
        allocations provided for calls which where message trunked.
        Note that this counter is included in the siteTotalCallAssigned
        object instance. This variable is useful for determining
        the relative percentages of transmission and message
        trunking being performed by this site. "
  ::= { siteTotalEntry 8 }
siteTotalDropped OBJECT-TYPE
  SYNTAX Counter
  ACCESS read-only
  STATUS mandatory
  DESCRIPTION
         "The total number of successful resource (e.g. channel)
            de-allocations that this site has performed."
  ::= { siteTotalEntry 9 }
siteTotalQueued OBJECT-TYPE
  SYNTAX Counter
  ACCESS read-only
  STATUS mandatory
  DESCRIPTION
        "The total number of times that an attempt to a allocate a
        resource (e.g. channel) on this site resulted in the
        requesting user being queued for access to this site's
        resources."
  ::= { siteTotalEntry 10 }
siteTotalDenied OBJECT-TYPE
  SYNTAX Counter
  ACCESS read-only
  STATUS mandatory
  DESCRIPTION
        "The total number of times that an attempt to a allocate a
        resource (e.g. channel) on this site resulted in the
        requesting user being denied access to this site's
        resources."
  ::= { siteTotalEntry 11 }
siteTotalSysBusy OBJECT-TYPE
  SYNTAX Counter
  ACCESS read-only
  STATUS mandatory
  DESCRIPTION
        "The total number of times that an attempt to a allocate a
        resource (e.g. channel) on this site could not be granted
            due to a lack of available system resources."
  ::= { siteTotalEntry 12 }
siteTotalChanKeys OBJECT-TYPE
  SYNTAX Counter
  ACCESS read-only
  STATUS mandatory
  DESCRIPTION
        "The total number of times that channel keying event was
        reported by this site. A channel key event occurs during
        message trunked calls, and indicates that a channel
        hangtime limit has been re-initialized."
  ::= { siteTotalEntry 13 }
siteTotalChanUnKeys OBJECT-TYPE
  SYNTAX Counter
  ACCESS read-only
```

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```
STATUS mandatory
     DESCRIPTION
          "The total number of times that channel un-key event was
          reported by this site. A channel un-key event occurs during
          message trunked calls, and indicates that a channel hangtime
          counter has begun decrementing. If the hangtime counter
          expires prior to a subsequent channel keying event, the
          channel in use will be de-allocated (e.g. dropped).
     ::= { siteTotalEntry 14 }
  siteTotalCktTime OBJECT-TYPE
     SYNTAX TimeTicks
     ACCESS read-only
     STATUS mandatory
     DESCRIPTION
           "The total amount of circuit connection time, in hundredths of a
          second, that this site has provided."
     ::= { siteTotalEntry 15 }
  siteTotalCktQTime OBJECT-TYPE
     SYNTAX TimeTicks
     ACCESS read-only
     STATUS mandatory
     DESCRIPTION
          "The total amount of time, in hundredths of a second, that
          requests to allocate a circuit have been queued, pending
          on access to resource allocation at this site.
          Note that this variable does not reflect any artifacts of the
          final outcome of the queuing (e.g. whether or not resources
          were eventually allocated)."
     ::= { siteTotalEntry 16 }
-- Site level system accessibility statistics.
siteAccessTable OBJECT-TYPE
     SYNTAX SEQUENCE OF SiteAccessEntry
     ACCESS not-accessible
     STATUS mandatory
     DESCRIPTION
          "A (conceptual) table which contains system accessibility
          statistics for EDACS sites."
     ::= { sitePerformance 2 }
  siteAccessEntry OBJECT-TYPE
     SYNTAX SiteAccessEntry
     ACCESS not-accessible
     STATUS mandatory
     DESCRIPTION
           "A (conceptual) entry in the siteAccessTable which contains
          accessibility information for a particular EDACS site."
     INDEX { siteAccessNumber }
     ::= { siteAccessTable 1 }
  SiteAccessEntry ::= SEQUENCE {
        siteAccessNumber
                                           SiteNumberType,
                                           OBJECT IDENTIFIER,
         siteAccessEntityID
                                           OBJECT IDENTIFIER,
         siteAccessMibExtension
         siteAccessSampleInterval
                                           TimeTicks,
         siteAssignedIndivVoice
                                            Counter,
```

siteAssignedGroupVoice siteAssignedIndivData siteAssignedGroupData siteAssignedIndivOutboundT siteAssignedIndivInboundTe siteAssignedGroupInboundTe siteAssignedOther	Counter, Counter, Counter, elephony Counter, lephony Counter, lephony Counter, Counter,
siteQueuedIndivVoice siteQueuedGroupVoice siteQueuedIndivData siteQueuedGroupData siteQueuedIndivOutboundTel siteQueuedIndivInboundTele siteQueuedGroupInboundTele	Counter, Counter, Counter, counter, ephony Counter, phony Counter, phony Counter, counter, Counter,
siteDeniedIndivVoice siteDeniedGroupVoice siteDeniedIndivData siteDeniedGroupData siteDeniedIndivOutboundTel siteDeniedIndivInboundTele siteDeniedGroupInboundTele	Counter, Counter, Counter, counter, ephony Counter, phony Counter, phony Counter, Counter,
siteSysBusyIndivVoice siteSysBusyGroupVoice siteSysBusyIndivData siteSysBusyGroupData siteSysBusyIndivOutboundTe siteSysBusyIndivInboundTel siteSysBusyGroupInboundTel siteSysBusyOther	Counter, Counter, Counter, Counter, lephony Counter, ephony Counter, ephony Counter, Counter, Counter,
<pre>siteConvertedCallerToCalle }</pre>	e Counter
siteAccessNumber OBJECT-TYPE SYNTAX SiteNumberType ACCESS read-only STATUS mandatory DESCRIPTION "A unique value for each to a particular (concept By convention, this valu administratively assigne value of five (5) litera	EDACS site, which serves as an index ual) entry in the siteAccessTable. The is identical to the `actual' number ad to this site. For example, a ally identifies `site 5'.
Note that the siteAccess as an index to a specifi Thus, management station tabular information whos ordinately based with re in the siteAccessTable.	Number object instance is also used c entry in the siteAccessTable. s must be prepared to receive e instance identification is not gard to it's (conceptual) position
For example, assume that information about site f have only one (conceptua Next, assume that a mana the siteAssignedIndivVoi said site. This specifi	this entity is only collecting ive (5). As such, this entity would 1) entry in the siteAccessTable. gement station wishes to inspect ce object instance associated with c instance would thus be identified as

```
siteAssignedIndivVoice.5, as opposed to
           siteAssignedIndivVoice.1."
      ::= { siteAccessEntry 1 }
   siteAccessEntityID OBJECT-TYPE
      SYNTAX OBJECT IDENTIFIER
      ACCESS read-only
     STATUS mandatory
      DESCRIPTION
            "The authoritative identification of the EDACS product which
            is providing the accessibility information for this site
            (a `conceptual row' in the siteAccessTable)."
      ::= { siteAccessEntry 2 }
   siteAccessMibExtension OBJECT-TYPE
      SYNTAX OBJECT IDENTIFIER
     ACCESS read-only
     STATUS mandatory
      DESCRIPTION
            "A reference to a MIB definition which this entity implements
            for extended information regarding site accessibility.
           If this extension information is not present, then the
           siteAccessMibExtension object instance value shall be
           OBJECT IDENTIFIER { 0 0 }, which is a syntactically valid
           object identifier."
      ::= { siteAccessEntry 3 }
   siteAccessSampleInterval OBJECT-TYPE
      SYNTAX TimeTicks
     ACCESS read-write
     STATUS mandatory
      DESCRIPTION
            "The time interval, expressed in hundredths of a
            second, during which accessibility statistics have
           been collected for this site.
           The only value a management station may attempt to set is
            zero (0), which has the effect of resetting the
           accessibility statistics for this site to zero. If this
           entity does not support resetting the statistics, or a value
           other than zero is attempted to be written, then a `badValue'
           should be returned."
      ::= { siteAccessEntry 4 }
-- Site level successful resource assignments.
   siteAssignedIndivVoice OBJECT-TYPE
      SYNTAX Counter
      ACCESS read-only
      STATUS mandatory
      DESCRIPTION
            "The total number of successful resource (channel) assignments
             that this site has provided for individual voice calls."
      ::= { siteAccessEntry 5 }
   siteAssignedGroupVoice OBJECT-TYPE
      SYNTAX Counter
     ACCESS read-only
      STATUS mandatory
      DESCRIPTION
            "The total number of successful resource (channel) assignments
            that this site has provided for group voice calls."
```

```
::= { siteAccessEntry 6 }
  siteAssignedIndivData OBJECT-TYPE
     SYNTAX Counter
     ACCESS read-only
     STATUS mandatory
     DESCRIPTION
           "The total number of successful resource (channel) assignments
           that this site has provided for individual data calls."
     ::= { siteAccessEntry 7 }
  siteAssignedGroupData OBJECT-TYPE
     SYNTAX Counter
     ACCESS read-only
     STATUS mandatory
     DESCRIPTION
           "The total number of successful resource (channel) assignments
           that this site has provided for group data calls."
     ::= { siteAccessEntry 8 }
  siteAssignedIndivOutboundTelephony OBJECT-TYPE
     SYNTAX Counter
     ACCESS read-only
     STATUS mandatory
     DESCRIPTION
           "The total number of successful resource (channel) assignments
           that this site has provided for individual outbound
           interconnect calls (e.g. PRS terminal to a telephony terminal)."
     ::= { siteAccessEntry 9 }
  siteAssignedIndivInboundTelephony OBJECT-TYPE
     SYNTAX Counter
     ACCESS read-only
     STATUS mandatory
     DESCRIPTION
           "The total number of successful resource (channel) assignments
           that this site has provided for individual inbound interconnect
           calls (e.g. telephony terminal to a PRS terminal)."
     ::= { siteAccessEntry 10 }
  siteAssignedGroupInboundTelephony OBJECT-TYPE
     SYNTAX Counter
     ACCESS read-only
     STATUS mandatory
     DESCRIPTION
           "The total number of successful resource (channel) assignments
           that this site has provided for group inbound interconnect calls
           (e.g. telephony terminal to multiple PRS terminals)."
     ::= { siteAccessEntry 11 }
  siteAssignedOther OBJECT-TYPE
     SYNTAX Counter
     ACCESS read-only
     STATUS mandatory
     DESCRIPTION
           "The total number of successful resource (channel) assignments
           made by this site which were not counted by the proceeding
           siteAssigned``CallType'' object instances."
     ::= { siteAccessEntry 12 }
-- Site level queuing for access to system resources.
  siteQueuedIndivVoice OBJECT-TYPE
```

SYNTAX Counter ACCESS read-only STATUS mandatory DESCRIPTION "The total number of times that an attempt to place an individual voice call resulted in the requesting user being queued for access to this site's resources." ::= { siteAccessEntry 13 } siteQueuedGroupVoice OBJECT-TYPE SYNTAX Counter ACCESS read-only STATUS mandatory DESCRIPTION "The total number of times that an attempt to place a group voice call resulted in the requesting user being queued for access to this site's resources." ::= { siteAccessEntry 14 } siteQueuedIndivData OBJECT-TYPE SYNTAX Counter ACCESS read-only STATUS mandatory DESCRIPTION "The total number of times that an attempt to place an individual data call resulted in the requesting user being queued for access to this site's resources." ::= { siteAccessEntry 15 } siteQueuedGroupData OBJECT-TYPE SYNTAX Counter ACCESS read-only STATUS mandatory DESCRIPTION "The total number of times that an attempt to place a group data call resulted in the requesting user being queued for access to this site's resources." ::= { siteAccessEntry 16 } siteQueuedIndivOutboundTelephony OBJECT-TYPE SYNTAX Counter ACCESS read-only STATUS mandatory DESCRIPTION "The total number of times that an attempt to place an individual outbound interconnect call (e.g. PRS terminal to a telephony terminal) resulted in the requesting user being queued for access to this site's resources." ::= { siteAccessEntry 17 } siteQueuedIndivInboundTelephony OBJECT-TYPE SYNTAX Counter ACCESS read-only STATUS mandatory DESCRIPTION "The total number of times that an attempt to place an individual inbound interconnect call (e.g. telephony terminal to a PRS terminal) resulted in the requesting user being queued for access to this site's resources." ::= { siteAccessEntry 18 } siteQueuedGroupInboundTelephony OBJECT-TYPE SYNTAX Counter

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```
ACCESS read-only
     STATUS mandatory
     DESCRIPTION
            "The total number of times that an attempt to place a group
           inbound interconnect call (e.g. telephony terminal to multiple
           PRS terminals) resulted in the requesting user being queued for
           access to this site's resources."
      ::= { siteAccessEntry 19 }
   siteQueuedOther OBJECT-TYPE
     SYNTAX Counter
     ACCESS read-only
     STATUS mandatory
     DESCRIPTION
            "The total number of that an attempt to allocate resources
            (e.g. channel) resulted in queuing which were not counted
           by the proceeding siteQueued``CallType'' object instances."
      ::= { siteAccessEntry 20 }
-- Site level denial for access to system resources.
   siteDeniedIndivVoice OBJECT-TYPE
     SYNTAX Counter
     ACCESS read-only
     STATUS mandatory
     DESCRIPTION
            "The total number of times that an attempt to place an
           individual voice call resulted in the requesting user being
           denied access to this site's resources."
      ::= { siteAccessEntry 21 }
   siteDeniedGroupVoice OBJECT-TYPE
     SYNTAX Counter
     ACCESS read-only
     STATUS mandatory
     DESCRIPTION
           "The total number of times that an attempt to place a group
           voice call resulted in the requesting user being denied access
           to this site's resources."
      ::= { siteAccessEntry 22 }
   siteDeniedIndivData OBJECT-TYPE
     SYNTAX Counter
     ACCESS read-only
     STATUS mandatory
     DESCRIPTION
            "The total number of times that an attempt to place an
           individual data call resulted in the requesting user being
           denied access to this site's resources."
      ::= { siteAccessEntry 23 }
   siteDeniedGroupData OBJECT-TYPE
     SYNTAX Counter
     ACCESS read-only
     STATUS mandatory
     DESCRIPTION
            "The total number of times that an attempt to place a group data
           call resulted in the requesting user being denied access to
           this site's resources."
      ::= { siteAccessEntry 24 }
   siteDeniedIndivOutboundTelephony OBJECT-TYPE
     SYNTAX Counter
```

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```
ACCESS read-only
      STATUS mandatory
      DESCRIPTION
            "The total number of times that an attempt to place an
            individual outbound interconnect call (e.g. PRS terminal to a
           telephony terminal) resulted in the requesting user being
            denied access to this site's resources."
      ::= { siteAccessEntry 25 }
   siteDeniedIndivInboundTelephony OBJECT-TYPE
      SYNTAX Counter
     ACCESS read-only
     STATUS mandatory
      DESCRIPTION
            "The total number of times that an attempt to place an
           individual inbound interconnect call (e.g. telephony terminal
           to a PRS terminal) resulted in the requesting user being
           denied access to this site's resources."
      ::= { siteAccessEntry 26 }
   siteDeniedGroupInboundTelephony OBJECT-TYPE
     SYNTAX Counter
     ACCESS read-only
     STATUS mandatory
      DESCRIPTION
            "The total number of times that an attempt to place a group
            inbound interconnect call (e.g. telephony terminal to multiple
           PRS terminals) resulted in the requesting user being denied
           access to this site's resources."
      ::= { siteAccessEntry 27 }
   siteDeniedOther OBJECT-TYPE
      SYNTAX Counter
     ACCESS read-only
     STATUS mandatory
     DESCRIPTION
            "The total number of that an attempt to allocate resources
            (e.g. channel) resulted in the user being denied access
            at this site, which were not counted
           by the proceeding siteDenied``CallType'' object instances."
      ::= { siteAccessEntry 28 }
-- Site level inability to satisfy requests due to lack of resources.
   siteSysBusyIndivVoice OBJECT-TYPE
     SYNTAX Counter
     ACCESS read-only
     STATUS mandatory
      DESCRIPTION
            "The total number of times that a request to place an
           individual voice call could not be granted due to a lack of
           system resources at this site."
      ::= { siteAccessEntry 29 }
   siteSysBusyGroupVoice OBJECT-TYPE
     SYNTAX Counter
     ACCESS read-only
     STATUS mandatory
      DESCRIPTION
            "The total number of times that a request to place a group voice
           call could not be granted due to a lack of system resources
           at this site."
      ::= { siteAccessEntry 30 }
```

```
siteSysBusyIndivData OBJECT-TYPE
  SYNTAX Counter
  ACCESS read-only
  STATUS mandatory
  DESCRIPTION
         "The total number of times that a request to place an individual
         data call could not be granted due to a lack of system resources
         at this site."
   ::= { siteAccessEntry 31 }
siteSysBusyGroupData OBJECT-TYPE
  SYNTAX Counter
  ACCESS read-only
  STATUS mandatory
  DESCRIPTION
         "The total number of times that a request to place a group data
         call could not be granted due to a lack of system resources
         at this site."
   ::= { siteAccessEntry 32 }
siteSysBusyIndivOutboundTelephony OBJECT-TYPE
  SYNTAX Counter
  ACCESS read-only
  STATUS mandatory
  DESCRIPTION
         "The total number of times that a request to place an individual
         outbound interconnect call (e.g. PRS terminal to a telephony
        terminal) could not be granted due to a lack of system
        resources at this site."
   ::= { siteAccessEntry 33 }
siteSysBusyIndivInboundTelephony OBJECT-TYPE
  SYNTAX Counter
  ACCESS read-only
  STATUS mandatory
  DESCRIPTION
         "The total number of times that a request to place an individual
         inbound interconnect call (e.g. telephony terminal to a PRS
         terminal) could not be granted due to a lack of
         system resources at this site."
   ::= { siteAccessEntry 34 }
siteSysBusyGroupInboundTelephony OBJECT-TYPE
  SYNTAX Counter
  ACCESS read-only
  STATUS mandatory
  DESCRIPTION
         "The total number of times that an attempt to place a group
         inbound interconnect call (e.g. telephony terminal to multiple
         PRS terminals) could not be granted due to a lack of
         system resources at this site."
   ::= { siteAccessEntry 35 }
siteSysBusyOther OBJECT-TYPE
  SYNTAX Counter
  ACCESS read-only
  STATUS mandatory
  DESCRIPTION
         "The total number of that an attempt to allocate resources
         (e.g. channel) could not be granted due to a lack of
         system resources at this site, which were not counted
by the proceeding siteSysBusy``CallType'' object instances."
```

```
::= { siteAccessEntry 36 }
  siteConvertedCallerToCallee OBJECT-TYPE
     SYNTAX Counter
     ACCESS read-only
     STATUS mandatory
     DESCRIPTION
           "The total number of times that an originating party (caller)
          was allocated resources (e.g. a channel), but was re-assigned
          as the destination party (callee) for the call at this site.
          This object instance provides an indication of (normal) glare
          conditions, which may occur during call conversations,
          which were successfully resolved with regard to resource
          allocation."
     ::= { siteAccessEntry 37 }
-- Site level circuit connection time utilization statistics.
siteCktTimeTable OBJECT-TYPE
     SYNTAX SEQUENCE OF SiteCktTimeEntry
     ACCESS not-accessible
     STATUS mandatory
     DESCRIPTION
           "A (conceptual) table which contains circuit connection
           time statistics for EDACS sites."
     ::= { sitePerformance 3 }
  siteCktTimeEntry OBJECT-TYPE
     SYNTAX SiteCktTimeEntry
     ACCESS not-accessible
     STATUS mandatory
     DESCRIPTION
           "A (conceptual) entry in the siteCktTimeTable which contains
           circuit connection time statistics for a particular EDACS site."
     INDEX { siteCktTimeNumber }
     ::= { siteCktTimeTable 1 }
  SiteCktTimeEntry ::= SEQUENCE {
         siteCktTimeNumber
                                           SiteNumberType,
                                           OBJECT IDENTIFIER,
         siteCktTimeEntityID
         siteCktTimeMibExtension
                                           OBJECT IDENTIFIER,
                                           TimeTicks,
         siteCktTimeSampleInterval
         siteCktTimeIndivVoice
                                            TimeTicks,
         siteCktTimeGroupVoice
                                            TimeTicks,
                                           TimeTicks,
         siteCktTimeIndivData
         siteCktTimeGroupData
                                           TimeTicks,
                                         TimeTicks,
TimeTicks,
TimeTicks,
         siteCktTimeIndivOutboundTelephony
         siteCktTimeIndivInboundTelephony
         siteCktTimeGroupInboundTelephony
         siteCktTimeOther
                                            TimeTicks,
         siteCktQTimeIndivVoice
                                            TimeTicks,
         siteCktQTimeGroupVoice
                                            TimeTicks,
         siteCktQTimeIndivData
                                            TimeTicks,
         siteCktQTimeGroupData
                                            TimeTicks,
         siteCktQTimeIndivInboundTelephony TimeTicks,
TimeTicks,
         siteCktQTimeOther
                                            TimeTicks
     }
```

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```
siteCktTimeNumber OBJECT-TYPE
     SYNTAX SiteNumberType
     ACCESS read-only
     STATUS mandatory
     DESCRIPTION
            "A unique value for each EDACS site, which serves as an index
            to a particular (conceptual) entry in the siteCktTimeTable.
            By convention, this value is identical to the `actual' number
            administratively assigned to this site. For example, a value of five (5) literally identifies `site 5'."
      ::= { siteCktTimeEntry 1 }
   siteCktTimeEntityID OBJECT-TYPE
     SYNTAX OBJECT IDENTIFIER
     ACCESS read-only
     STATUS mandatory
     DESCRIPTION
            "The authoritative identification of the EDACS product which
            is providing the accessibility information for this site
            (a `conceptual row' in the siteCktTimeTable)."
      ::= { siteCktTimeEntry 2 }
   siteCktTimeMibExtension OBJECT-TYPE
     SYNTAX OBJECT IDENTIFIER
     ACCESS read-only
     STATUS mandatory
     DESCRIPTION
            "A reference to a MIB definition which this entity implements
            for extended information regarding site circuit usage.
            If this extension information is not present, then the
            siteAccessMibExtension object instance value shall be
            OBJECT IDENTIFIER { 0 0 }, which is a syntactically valid
            object identifier."
      ::= { siteCktTimeEntry 3 }
   siteCktTimeSampleInterval OBJECT-TYPE
     SYNTAX TimeTicks
     ACCESS read-write
     STATUS mandatory
     DESCRIPTION
            "The time interval, expressed in hundredths of a
            second, during which circuit connection time usage
            statistics have been collected for this site.
            The only value a management station may attempt to set is
            zero (0), which has the effect of resetting the circuit
            statistics for this site to zero. If this
            entity does not support resetting the statistics, or a value
            other than zero is attempted to be written, then a `badValue'
            should be returned."
      ::= { siteCktTimeEntry 4 }
-- Circuit Utilization Time
   siteCktTimeIndivVoice OBJECT-TYPE
     SYNTAX TimeTicks
     ACCESS read-only
     STATUS mandatory
     DESCRIPTION
            "The total amount of circuit connection time, in hundredths of a
```

```
second, that this site has provided for individual voice calls."
   ::= { siteCktTimeEntry 5 }
siteCktTimeGroupVoice OBJECT-TYPE
  SYNTAX TimeTicks
  ACCESS read-only
  STATUS mandatory
  DESCRIPTION
         "The total amount of circuit connection time, in hundredths of a
        second, that this site has provided for group voice calls."
   ::= { siteCktTimeEntry 6 }
siteCktTimeIndivData OBJECT-TYPE
  SYNTAX TimeTicks
  ACCESS read-only
  STATUS mandatory
  DESCRIPTION
         "The total amount of circuit connection time, in hundredths of a
         second, that this site has provided for individual data calls."
   ::= { siteCktTimeEntry 7 }
siteCktTimeGroupData OBJECT-TYPE
  SYNTAX TimeTicks
  ACCESS read-only
  STATUS mandatory
  DESCRIPTION
         "The total amount of circuit connection time, in hundredths of a
         second, that this site has provided for group data calls."
   ::= { siteCktTimeEntry 8 }
siteCktTimeIndivOutboundTelephony OBJECT-TYPE
  SYNTAX TimeTicks
  ACCESS read-only
  STATUS mandatory
  DESCRIPTION
         "The total amount of circuit connection time, in hundredths of a
        second, that this site has provided for individual outbound
        interconnect calls (e.g. PRS terminal to a telephony terminal)."
   ::= { siteCktTimeEntry 9 }
siteCktTimeIndivInboundTelephony OBJECT-TYPE
  SYNTAX TimeTicks
  ACCESS read-only
  STATUS mandatory
  DESCRIPTION
         "The total amount of circuit connection time, in hundredths of a
        second, that this site has provided for individual inbound
        interconnect calls (e.g. telephony terminal to a PRS terminal)."
   ::= { siteCktTimeEntry 10 }
siteCktTimeGroupInboundTelephony OBJECT-TYPE
  SYNTAX TimeTicks
  ACCESS read-only
  STATUS mandatory
  DESCRIPTION
         "The total amount of circuit connection time, in hundredths of a
        second, that this site has provided for group inbound
        interconnect calls (e.g. telephony terminal to multiple PRS
        terminals)."
   ::= { siteCktTimeEntry 11 }
siteCktTimeOther OBJECT-TYPE
   SYNTAX TimeTicks
```

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ACCESS read-only STATUS mandatory DESCRIPTION "The total amount of circuit connection time, in hundredths of a second, that this site has provided which has not been accumulated by the proceeding siteCktTime``CallType'' object instances." ::= { siteCktTimeEntry 12 } -- Circuit Queuing Time siteCktQTimeIndivVoice OBJECT-TYPE SYNTAX TimeTicks ACCESS read-only STATUS mandatory DESCRIPTION "The total amount of time, in hundredths of a second, that requests to place an individual voice call have been queued, pending on access to resource allocation at this site. Note that this variable does not reflect any artifacts of the final outcome of the queuing (e.g. whether or not resources were eventually allocated)." ::= { siteCktTimeEntry 13 } siteCktQTimeGroupVoice OBJECT-TYPE SYNTAX TimeTicks ACCESS read-only STATUS mandatory DESCRIPTION "The total amount of time, in hundredths of a second, that requests to place a group voice call have been queued, pending on access to resource allocation at this site. Note that this variable does not reflect any artifacts of the final outcome of the queuing (e.g. whether or not resources were eventually allocated)." ::= { siteCktTimeEntry 14 } siteCktQTimeIndivData OBJECT-TYPE SYNTAX TimeTicks ACCESS read-only STATUS mandatory DESCRIPTION "The total amount of time, in hundredths of a second, that requests to place an individual data call have been queued, pending on access to resource allocation at this site. Note that this variable does not reflect any artifacts of the final outcome of the queuing (e.g. whether or not resources were eventually allocated)." ::= { siteCktTimeEntry 15 } siteCktQTimeGroupData OBJECT-TYPE SYNTAX TimeTicks ACCESS read-only STATUS mandatory DESCRIPTION "The total amount of time, in hundredths of a second, that requests to place a group data call have been queued, pending on access to resource allocation at this site. Note that this variable does not reflect any artifacts of the

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```
final outcome of the queuing (e.g. whether or not resources
        were eventually allocated)."
   ::= { siteCktTimeEntry 16 }
siteCktQTimeIndivOutboundTelephony OBJECT-TYPE
  SYNTAX TimeTicks
  ACCESS read-only
  STATUS mandatory
  DESCRIPTION
         "The total amount of time, in hundredths of a second, that
        requests to place an individual outbound interconnect call
         (e.g. PRS terminal to a telephony terminal) have been queued,
        pending on access to resource allocation at this site.
        Note that this variable does not reflect any artifacts of the
        final outcome of the queuing (e.g. whether or not resources
        were eventually allocated)."
   ::= { siteCktTimeEntry 17 }
siteCktQTimeIndivInboundTelephony OBJECT-TYPE
   SYNTAX TimeTicks
  ACCESS read-only
  STATUS mandatory
  DESCRIPTION
         "The total amount of time, in hundredths of a second, that
        requests to place an individual inbound interconnect call
         (e.g. telephony terminal to a PRS terminal) have been queued,
        pending on access to resource allocation at this site.
        Note that this variable does not reflect any artifacts of the
        final outcome of the queuing (e.g. whether or not resources
        were eventually allocated)."
   ::= { siteCktTimeEntry 18 }
siteCktQTimeGroupInboundTelephony OBJECT-TYPE
  SYNTAX TimeTicks
  ACCESS read-only
  STATUS mandatory
  DESCRIPTION
         "The total amount of time, in hundredths of a second, that
        requests to place a group inbound interconnect call
         (e.g. telephony terminal to multiple PRS terminals) have been
        queued, pending on access to resource allocation at this site.
        Note that this variable does not reflect any artifacts of the
        final outcome of the queuing (e.g. whether or not resources
        were eventually allocated)."
   ::= { siteCktTimeEntry 19 }
siteCktQTimeOther OBJECT-TYPE
  SYNTAX TimeTicks
  ACCESS read-only
  STATUS mandatory
  DESCRIPTION
         "The total amount of time, in hundredths of a second,
        that requests to allocate resources (e.g. channel) have
        been queued, which were not accumulated
        by the proceeding siteCktQTime``CallType'' object instances.
        Note that this variable does not reflect any artifacts of the
        final outcome of the queuing (e.g. whether or not resources
        were eventually allocated)."
   ::= { siteCktTimeEntry 20 }
```

END

A.5. edacs104.mib

```
-- File:
         edacs104.mib
-- Title:
            EDACS Node Level Management Information Base
____
          Copyright (C) 1995, Ericsson, Inc.
____
___
          Private Radio Systems (PRS) Division.
          All Rights Reserved.
_ _
____
-- PRS MIB STATUS:
                  PRELIMINARY
____
-- Description:
   This MIB specifies performance information available at the EDACS
___
-- Service Node (e.g. primary switching center) level.
-- NOTICE:
-- (1) The information in this document is subject to change without notice.
     Ericsson Inc. assumes no responsibility for any errors that may
___
     appear in this document.
___
__******
  EDACS-NODE-PERFORMANCE-MIB DEFINITIONS ::= BEGIN
  TMPORTS
                  FROM RFC1155-SMI
    enterprises
                   FROM RFC1155-SMI
    Counter
    TimeTicks
                   FROM RFC1155-SMI
    OBJECT-TYPE
                   FROM RFC-1212;
  -- Object Identifiers
  ericsson
                   OBJECT IDENTIFIER ::= { enterprises 193 }
                   OBJECT IDENTIFIER ::= { ericsson 10 }
  edacs
                   OBJECT IDENTIFIER ::= { edacs 1 }
  system
                   OBJECT IDENTIFIER ::= { system 5 }
  node
  nodePerformance
                  OBJECT IDENTIFIER ::= { node 2 }
                   OBJECT IDENTIFIER ::= { nodePerformance 1 }
  nodeInfo
                  OBJECT IDENTIFIER ::= { nodePerformance 2 }
  nodeTotal
                   OBJECT IDENTIFIER ::= { nodePerformance 3 }
  nodeAccess
                  OBJECT IDENTIFIER ::= { nodePerformance 4 }
  nodeCktTime
  -- Textual conversions
                 ::= INTEGER (0..2147483647)
  PositiveInteger
-- General information provided by the entity which is providing the
-- service node performance information.
__****************
  nodeInfoEntityID OBJECT-TYPE
    SYNTAX OBJECT IDENTIFIER
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
```

```
"The authoritative identification of the EDACS product which
          is providing performance information for this service node."
     ::= \{ nodeInfo 1 \}
  nodeInfoNumber OBJECT-TYPE
     SYNTAX PositiveInteger
     ACCESS read-only
     STATUS mandatory
     DESCRIPTION
          "The administratively assigned node number of this EDACS
          service node.
          This value will be zero (0) if the entity supporting
          the node is not knowledgeable of the administratively
          assigned number for this service node."
     ::= { nodeInfo 2 }
  nodeInfoMibExtension OBJECT-TYPE
     SYNTAX OBJECT IDENTIFIER
     ACCESS read-only
     STATUS mandatory
     DESCRIPTION
          "A reference to a MIB definition which this entity implements
          for extended information regarding node level performance.
          If this extension information is not present, then the
          nodeInfoMibExtension object instance value shall be
          OBJECT IDENTIFIER { 0 0 }, which is a syntactically valid
          object identifier."
     ::= { nodeInfo 3 }
-- Node level total statistics information.
nodeTotalSampleInterval OBJECT-TYPE
     SYNTAX TimeTicks
     ACCESS read-write
     STATUS mandatory
     DESCRIPTION
           "The time interval, expressed in hundredths of a second,
          during which total summary statistics have been collected
          for this service node.
          The only value a management station may attempt to set is
          zero (0), which has the effect of resetting the total
          summary statistics for this node to zero. If this
          entity does not support resetting the statistics, or a value
          other than zero is attempted to be written, then a `badValue'
          should be returned."
     ::= { nodeTotal 1 }
  nodeTotalAssigned OBJECT-TYPE
     SYNTAX Counter
     ACCESS read-only
     STATUS mandatory
     DESCRIPTION
           "The total number of successful resource (e.q. channel)
          allocations provided by this service node's resources."
     ::= { nodeTotal 2 }
  nodeTotalAssignedEmergencies OBJECT-TYPE
     SYNTAX Counter
```

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```
ACCESS read-only
   STATUS mandatory
   DESCRIPTION
         "The total number of successful resource (e.g. channel)
         allocations provided for emergency calls on this service node.
        Note that this counter is included in the nodeTotalAssigned
         object instance."
   ::= { nodeTotal 3 }
nodeTotalAssignedSecondary OBJECT-TYPE
   SYNTAX Counter
  ACCESS read-only
  STATUS mandatory
   DESCRIPTION
         "The total number of successful resource (e.g. channel)
        allocations that this service node has performed which
        were associated with multi-site calls.
        Note that this counter is included in the nodeTotalAssigned
        object instance."
   ::= { nodeTotal 4 }
nodeTotalAssignedMsgTrunked OBJECT-TYPE
   SYNTAX Counter
  ACCESS read-only
  STATUS mandatory
   DESCRIPTION
         "The total number of successful resource (e.g. channel)
         allocations provided for calls which where message trunked.
        Note that this counter is included in the nodeTotalAssigned
        object instance. This variable is useful for determining
        the relative percentages of transmission and message
         trunking being performed at this service node."
   ::= { nodeTotal 5 }
nodeTotalDropped OBJECT-TYPE
  SYNTAX Counter
  ACCESS read-only
  STATUS mandatory
   DESCRIPTION
         "The total number of successful resource (e.g. channel)
         de-allocations that this service node has performed."
   ::= { nodeTotal 6 }
nodeTotalQueued OBJECT-TYPE
   SYNTAX Counter
  ACCESS read-only
  STATUS mandatory
   DESCRIPTION
         "The total number of times that an attempt to a allocate a
         resource (e.g. channel) resulted in the requesting user being
         queued for access to this service node's resources."
   ::= { nodeTotal 7 }
nodeTotalDenied OBJECT-TYPE
   SYNTAX Counter
  ACCESS read-only
  STATUS mandatory
   DESCRIPTION
         "The total number of times that an attempt to a allocate a
         resource (e.g. channel) resulted in the requesting user being
        denied access to this service node's resources."
   ::= { nodeTotal 8 }
```

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```
nodeTotalSystemBusy OBJECT-TYPE
     SYNTAX Counter
     ACCESS read-only
     STATUS mandatory
     DESCRIPTION
           "The total number of times that an attempt to a allocate a
          resource (e.g. channel) could not be granted due to a lack of
          resource availability at this service node."
     ::= { nodeTotal 9 }
  nodeTotalCktTime OBJECT-TYPE
     SYNTAX TimeTicks
     ACCESS read-only
     STATUS mandatory
     DESCRIPTION
           "The total amount of circuit connection time, in hundredths of a
          second, that this service node's resources have provided."
     ::= { nodeTotal 10 }
  nodeTotalCktOTime OBJECT-TYPE
     SYNTAX TimeTicks
     ACCESS read-only
     STATUS mandatory
     DESCRIPTION
          "The total amount of time, in hundredths of a second, that
          requests to allocate a circuit have been queued, pending
          on access allocation to this service node's resources.
          Note that this variable does not reflect any artifacts of the
          final outcome of the queuing (e.g. whether or not resources
          were eventually allocated)."
     ::= { nodeTotal 11 }
-- Node level system accessibility statistics.
nodeAccessSampleInterval OBJECT-TYPE
     SYNTAX TimeTicks
     ACCESS read-write
     STATUS mandatory
     DESCRIPTION
          "The time interval, expressed in hundredths of a second, during
          which accessibility statistics have been collected for this
          service node.
          The only value a management station may attempt to set is
          zero (0), which has the effect of resetting the
          accessibility statistics for this node to zero. If this
          entity does not support resetting the statistics, or a value
          other than zero is attempted to be written, then a `badValue'
          should be returned."
     ::= { nodeAccess 1 }
-- Node level successful resource assignments.
  nodeAssignedIndivVoice
                          OBJECT-TYPE
     SYNTAX Counter
     ACCESS read-only
     STATUS mandatory
     DESCRIPTION
           "The total number of successful resource (channel) assignments
           that this node has provided for individual voice calls."
```

```
::= { nodeAccess 2 }
nodeAssignedGroupVoice
                          OBJECT-TYPE
  SYNTAX Counter
  ACCESS read-only
  STATUS mandatory
  DESCRIPTION
         "The total number of successful resource (channel) assignments
         that this node has provided for group voice calls."
   ::= { nodeAccess 3 }
nodeAssignedIndivData OBJECT-TYPE
  SYNTAX Counter
  ACCESS read-only
  STATUS mandatory
  DESCRIPTION
         "The total number of successful resource (channel) assignments
        that this node has provided for individual data calls."
   ::= { nodeAccess 4 }
nodeAssignedGroupData
                         OBJECT-TYPE
  SYNTAX Counter
  ACCESS read-only
  STATUS mandatory
  DESCRIPTION
         "The total number of successful resource (channel) assignments
        that this node has provided for group data calls."
   ::= { nodeAccess 5 }
nodeAssignedIndivOutboundTelephony OBJECT-TYPE
  SYNTAX Counter
  ACCESS read-only
  STATUS mandatory
  DESCRIPTION
         "The total number of successful resource (channel) assignments
        that this node has provided for individual outbound
        interconnect calls (e.q. PRS terminal to a telephony terminal)."
   ::= { nodeAccess 6 }
nodeAssignedIndivInboundTelephony
                                  OBJECT-TYPE
  SYNTAX Counter
  ACCESS read-only
  STATUS mandatory
  DESCRIPTION
         "The total number of successful resource (channel) assignments
        that this node has provided for individual inbound interconnect
        calls (e.g. telephony terminal to a PRS terminal)."
   ::= { nodeAccess 7 }
nodeAssignedGroupInboundTelephony OBJECT-TYPE
  SYNTAX Counter
  ACCESS read-only
  STATUS mandatory
  DESCRIPTION
         "The total number of successful resource (channel) assignments
        that this node has provided for group inbound interconnect calls
         (e.g. telephony terminal to multiple PRS terminals)."
   ::= { nodeAccess 8 }
nodeAssignedOther
                    OBJECT-TYPE
  SYNTAX Counter
  ACCESS read-only
  STATUS mandatory
```

```
DESCRIPTION
           "The total number of successful resource (channel) assignments
           that this service node has provided which were not counted by
           the proceeding nodeAssigned``CallType'' object instances."
      ::= { nodeAccess 9 }
-- Node level queuing for access to system resources.
  nodeQueuedIndivVoice
                           OBJECT-TYPE
     SYNTAX Counter
     ACCESS read-only
     STATUS mandatory
     DESCRIPTION
           "The total number of times that an attempt to place an
           individual voice call resulted in the requesting user being
           queued for access to this node's resources."
     ::= { nodeAccess 10 }
  nodeQueuedGroupVoice
                          OBJECT-TYPE
     SYNTAX Counter
     ACCESS read-only
     STATUS mandatory
     DESCRIPTION
           "The total number of times that an attempt to place a group
           voice call resulted in the requesting user being queued for
           access to this node's resources."
     ::= { nodeAccess 11 }
  nodeQueuedIndivData OBJECT-TYPE
     SYNTAX Counter
     ACCESS read-only
     STATUS mandatory
     DESCRIPTION
           "The total number of times that an attempt to place an
           individual data call resulted in the requesting user being
           queued for access to this node's resources."
     ::= { nodeAccess 12 }
  nodeQueuedGroupData OBJECT-TYPE
     SYNTAX Counter
     ACCESS read-only
     STATUS mandatory
     DESCRIPTION
           "The total number of times that an attempt to place a group data
           call resulted in the requesting user being queued for access
           to this node's resources."
     ::= { nodeAccess 13 }
  nodeQueuedIndivOutboundTelephony OBJECT-TYPE
     SYNTAX Counter
     ACCESS read-only
     STATUS mandatory
     DESCRIPTION
           "The total number of times that an attempt to place an
           individual outbound interconnect call (e.g. PRS terminal to a
           telephony terminal) resulted in the requesting user being
           queued for access to this node's resources."
     ::= { nodeAccess 14 }
  nodeQueuedIndivInboundTelephony OBJECT-TYPE
     SYNTAX Counter
     ACCESS read-only
     STATUS mandatory
```

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```
DESCRIPTION
            "The total number of times that an attempt to place an
           individual inbound interconnect call (e.g. telephony terminal
           to a PRS terminal) resulted in the requesting user being
           queued for access to this node's resources."
      ::= { nodeAccess 15 }
   nodeQueuedGroupInboundTelephony OBJECT-TYPE
     SYNTAX Counter
     ACCESS read-only
     STATUS mandatory
     DESCRIPTION
           "The total number of times that an attempt to place a group
           inbound interconnect call (e.g. telephony terminal to multiple
           PRS terminals) resulted in the requesting user being queued for
           access to this node's resources."
      ::= { nodeAccess 16 }
   nodeQueuedOther
                            OBJECT-TYPE
     SYNTAX Counter
     ACCESS read-only
     STATUS mandatory
     DESCRIPTION
            "The total number of that an attempt to allocate resources
            (e.g. channel) resulted in queuing which was not counted
           by the proceeding nodeQueued``CallType'' object instances."
      ::= { nodeAccess 17 }
-- Node level denial for access to system resources.
  nodeDeniedIndivVoice
                            OBJECT-TYPE
     SYNTAX Counter
     ACCESS read-only
     STATUS mandatory
     DESCRIPTION
            "The total number of times that an attempt to place an
           individual voice call resulted in the requesting user being
           denied access to this node's resources."
      ::= { nodeAccess 18 }
   nodeDeniedGroupVoice
                           OBJECT-TYPE
     SYNTAX Counter
     ACCESS read-only
     STATUS mandatory
     DESCRIPTION
            "The total number of times that an attempt to place a group
           voice call resulted in the requesting user being denied access
           to this node's resources."
      ::= { nodeAccess 19 }
   nodeDeniedIndivData OBJECT-TYPE
     SYNTAX Counter
     ACCESS read-only
     STATUS mandatory
     DESCRIPTION
            "The total number of times that an attempt to place an
           individual data call resulted in the requesting user being
           denied access to this node's resources."
      ::= { nodeAccess 20 }
   nodeDeniedGroupData OBJECT-TYPE
     SYNTAX Counter
     ACCESS read-only
```

STATUS mandatory DESCRIPTION "The total number of times that an attempt to place a group data call resulted in the requesting user being denied access to this node's resources." ::= { nodeAccess 21 } nodeDeniedIndivOutboundTelephony OBJECT-TYPE SYNTAX Counter ACCESS read-only STATUS mandatory DESCRIPTION "The total number of times that an attempt to place an individual outbound interconnect call (e.g. PRS terminal to a telephony terminal) resulted in the requesting user being denied access to this node's resources." ::= { nodeAccess 22 } nodeDeniedIndivInboundTelephony OBJECT-TYPE SYNTAX Counter ACCESS read-only STATUS mandatory DESCRIPTION "The total number of times that an attempt to place an individual inbound interconnect call (e.g. telephony terminal to a PRS terminal) resulted in the requesting user being denied access to this node's resources." ::= { nodeAccess 23 } nodeDeniedGroupInboundTelephony OBJECT-TYPE SYNTAX Counter ACCESS read-only STATUS mandatory DESCRIPTION "The total number of times that an attempt to place a group inbound interconnect call (e.g. telephony terminal to multiple PRS terminals) resulted in the requesting user being denied access to this node's resources." ::= { nodeAccess 24 } nodeDeniedOther OBJECT-TYPE SYNTAX Counter ACCESS read-only STATUS mandatory DESCRIPTION "The total number of that an attempt to allocate resources (e.g. channel) resulted in the user being denied access at this node, which were not counted by the proceeding nodeDenied``CallType'' object instances." ::= { nodeAccess 25 } -- Node level inability to satisfy requests due to lack of resources. nodeSysBusyIndivVoice OBJECT-TYPE SYNTAX Counter ACCESS read-only STATUS mandatory DESCRIPTION "The total number of times that a request to place an individual voice call could not be granted due to a lack of system resources at this service node." ::= { nodeAccess 26 }

nodeSysBusyGroupVoice OBJECT-TYPE SYNTAX Counter ACCESS read-only STATUS mandatory DESCRIPTION "The total number of times that a request to place a group voice call could not be granted due to a lack of system resources at this service node." ::= { nodeAccess 27 } nodeSysBusyIndivData OBJECT-TYPE SYNTAX Counter ACCESS read-only STATUS mandatory DESCRIPTION "The total number of times that a request to place an individual data call could not be granted due to a lack of system resources at this service node." ::= { nodeAccess 28 } nodeSysBusyGroupData OBJECT-TYPE SYNTAX Counter ACCESS read-only STATUS mandatory DESCRIPTION "The total number of times that a request to place a group data call could not be granted due to a lack of system resources at this service node." ::= { nodeAccess 29 } nodeSysBusyIndivOutboundTelephony OBJECT-TYPE SYNTAX Counter ACCESS read-only STATUS mandatory DESCRIPTION "The total number of times that a request to place an individual outbound interconnect call (e.q. PRS terminal to a telephony terminal) could not be granted due to a lack of system resources at this service node." ::= { nodeAccess 30 } nodeSysBusyIndivInboundTelephony OBJECT-TYPE SYNTAX Counter ACCESS read-only STATUS mandatory DESCRIPTION "The total number of times that a request to place an individual inbound interconnect call (e.q. telephony terminal to a PRS terminal) could not be granted due to a lack of system resources at this service node." ::= { nodeAccess 31 } nodeSysBusyGroupInboundTelephony OBJECT-TYPE SYNTAX Counter ACCESS read-only STATUS mandatory DESCRIPTION "The total number of times that an attempt to place a group inbound interconnect call (e.g. telephony terminal to multiple PRS terminals) could not be granted due to a lack of system resources at this service node." ::= { nodeAccess 32 }
nodeSysBusyOther OBJECT-TYPE SYNTAX Counter ACCESS read-only STATUS mandatory DESCRIPTION "The total number of times that an attempt to allocate resources (e.g. channel) could not be granted due to a lack of system resources at this node, which were not counted by the proceeding nodeSysBusy``CallType'' object instances." ::= { nodeAccess 33 } -- Node level circuit utilization statistics. nodeCktTimeSampleInterval OBJECT-TYPE SYNTAX TimeTicks ACCESS read-write STATUS mandatory DESCRIPTION "The time interval, expressed in hundredths of a second, during which circuit connection time usage statistics have been collected for this service node. The only value a management station may attempt to set is zero (0), which has the effect of resetting the circuit statistics for this node to zero. If this entity does not support resetting the statistics, or a value other than zero is attempted to be written, then a `badValue' should be returned." ::= { nodeCktTime 1 } -- Circuit Utilization Time nodeCktTimeIndivVoice OBJECT-TYPE SYNTAX TimeTicks ACCESS read-only STATUS mandatory DESCRIPTION "The total amount of circuit connection time, in hundredths of a second, that this node has provided for individual voice calls." ::= { nodeCktTime 2 } nodeCktTimeGroupVoice OBJECT-TYPE SYNTAX TimeTicks ACCESS read-only STATUS mandatory DESCRIPTION "The total amount of circuit connection time, in hundredths of a second, that this node has provided for group voice calls." ::= { nodeCktTime 3 } nodeCktTimeIndivData OBJECT-TYPE SYNTAX TimeTicks ACCESS read-only STATUS mandatory DESCRIPTION "The total amount of circuit connection time, in hundredths of a second, that this node has provided for individual data calls." ::= { nodeCktTime 4 } nodeCktTimeGroupData OBJECT-TYPE SYNTAX TimeTicks

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```
ACCESS read-only
     STATUS mandatory
      DESCRIPTION
            "The total amount of circuit connection time, in hundredths of a
           second, that this node has provided for group data calls."
      ::= { nodeCktTime 5 }
   nodeCktTimeIndivOutboundTelephony
                                     OBJECT-TYPE
     SYNTAX TimeTicks
     ACCESS read-only
     STATUS mandatory
     DESCRIPTION
            "The total amount of circuit connection time, in hundredths of a
           second, that this node has provided for individual outbound
           interconnect calls (e.g. individual PRS terminal to a
           telephony terminal)."
      ::= { nodeCktTime 6 }
   nodeCktTimeIndivInboundTelephony OBJECT-TYPE
     SYNTAX TimeTicks
     ACCESS read-only
     STATUS mandatory
     DESCRIPTION
            "The total amount of circuit connection time, in hundredths of a
           second, that this node has provided for individual inbound
           interconnect calls (e.g. telephony terminal to a PRS terminal)."
      ::= { nodeCktTime 7 }
   nodeCktTimeGroupInboundTelephony OBJECT-TYPE
     SYNTAX TimeTicks
     ACCESS read-only
     STATUS mandatory
     DESCRIPTION
            "The total amount of circuit connection time, in hundredths of a
           second, that this node has provided for group inbound
           interconnect calls (e.g. telephony terminal to multiple
           PRS terminals)."
      ::= { nodeCktTime 8 }
   nodeCktTimeOther
                       OBJECT-TYPE
     SYNTAX TimeTicks
     ACCESS read-only
     STATUS mandatory
     DESCRIPTION
            "The total amount of circuit connection time, in hundredths of a
           second, that this node has provided which has not been
           accumulated by the proceeding nodeCktTime``CallType''
           object instances."
      ::= { nodeCktTime 9 }
-- Circuit Queuing Time
  nodeCktQTimeIndivVoice
                            OBJECT-TYPE
     SYNTAX TimeTicks
     ACCESS read-only
     STATUS mandatory
     DESCRIPTION
            "The total amount of time, in hundredths of a second, that
           requests to place an individual voice call have been queued,
           pending on access to resource allocation at this node.
           Note that this variable does not reflect any artifacts of the
           final outcome of the queuing (e.q. whether or not resources
```

were eventually allocated)." ::= { nodeCktTime 10 } nodeCktQTimeGroupVoice OBJECT-TYPE SYNTAX TimeTicks ACCESS read-only STATUS mandatory DESCRIPTION "The total amount of time, in hundredths of a second, that requests to place a group voice call have been queued, pending on access to resource allocation at this node. Note that this variable does not reflect any artifacts of the final outcome of the queuing (e.g. whether or not resources were eventually allocated)." ::= { nodeCktTime 11 } nodeCktQTimeIndivData OBJECT-TYPE SYNTAX TimeTicks ACCESS read-only STATUS mandatory DESCRIPTION "The total amount of time, in hundredths of a second, that requests to place an individual data call have been queued, pending on access to resource allocation at this node. Note that this variable does not reflect any artifacts of the final outcome of the queuing (e.g. whether or not resources were eventually allocated)." ::= { nodeCktTime 12 } nodeCktQTimeGroupData OBJECT-TYPE SYNTAX TimeTicks ACCESS read-only STATUS mandatory DESCRIPTION "The total amount of time, in hundredths of a second, that requests to place a group data call have been queued, pending on access to resource allocation at this node. Note that this variable does not reflect any artifacts of the final outcome of the queuing (e.g. whether or not resources were eventually allocated)." ::= { nodeCktTime 13 } nodeCktQTimeIndivOutboundTelephony OBJECT-TYPE SYNTAX TimeTicks ACCESS read-only STATUS mandatory DESCRIPTION "The total amount of time, in hundredths of a second, that requests to place an individual outbound interconnect call (e.g. PRS terminal to a telephony terminal) have been queued, pending on access to resource allocation at this node. Note that this variable does not reflect any artifacts of the final outcome of the queuing (e.g. whether or not resources were eventually allocated)." ::= { nodeCktTime 14 } nodeCktQTimeIndivInboundTelephony OBJECT-TYPE SYNTAX TimeTicks ACCESS read-only

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```
STATUS mandatory
   DESCRIPTION
        "The total amount of time, in hundredths of a second, that
        requests to place an individual inbound interconnect call
         (e.g. telephony terminal to a PRS terminal) have been queued,
        pending on access to resource allocation at this node.
        Note that this variable does not reflect any artifacts of the
        final outcome of the queuing (e.g. whether or not resources
        were eventually allocated)."
   ::= { nodeCktTime 15 }
nodeCktQTimeGroupInboundTelephony
                                      OBJECT-TYPE
  SYNTAX TimeTicks
  ACCESS read-only
  STATUS mandatory
  DESCRIPTION
         "The total amount of time, in hundredths of a second, that
        requests to place a group inbound interconnect call
         (e.g. telephony terminal to multiple PRS terminals) have been
        queued, pending on access to resource allocation at this node.
        Note that this variable does not reflect any artifacts of the
        final outcome of the queuing (e.g. whether or not resources
        were eventually allocated)."
   ::= { nodeCktTime 16 }
nodeCktQTimeOther
                    OBJECT-TYPE
  SYNTAX TimeTicks
  ACCESS read-only
  STATUS mandatory
  DESCRIPTION
         "The total amount of time, in hundredths of a second,
        that requests to allocate resources (e.g. channel) have
        been queued, which were not accumulated
        by the proceeding nodeCktQTime``CallType'' object instances.
        Note that this variable does not reflect any artifacts of the
        final outcome of the queuing (e.g. whether or not resources
        were eventually allocated)."
   ::= { nodeCktTime 17 }
END
```

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