

Описание мониторинга параметров устройств под управлением контроллеров серии МСК по протоколу SNMP.

Поддерживаемая версия протокола: SNMPv2.

Поддерживаемые community: "public" для доступа "только для чтения", "private" для доступа на "чтение-запись".

Базовая ветка дерева MIB поддерживаемых устройств: 1.3.6.1.4.1.27142.1.12 (список устройств и их параметров приведен ниже)

Поддержка команд SNMP getnext/walk: выполняются только для подветок ветки 1.3.6.1.4.1.27142.1.12. отдельно.

Поддержка snmp-trap пакетов: отправляются snmp-inform сообщения при появлении аварийных ситуаций (список snmp-inform сообщений приведен ниже).

Сообщения snmp-trap высылаются сразу при возникновении аварийной ситуации. Если удаленный хост, куда отправляются аварии, перестает быть доступным, то после того как он станет доступен, произойдет отправка сообщения ***SystemInitTrap*** для сброса аварий и затем отправятся все текущие аварии. Есть сообщения snmp-trap высылающиеся периодически(каждые 5 минут) — это информирующие сообщения о состоянии напряжения 220В(***SupplyUPhaseTrap***) и температурных датчиках(***ClimateTempStat***).

Настройка отправки snmp-trap пакетов осуществляется в графическом интерфейсе программы конфигурирования и мониторинга mskmon, описание приведено ниже.

Список поддерживаемых устройств и параметров (MIB).

-- UGM //!!!

supply OBJECT IDENTIFIER ::= { ugm 1 }
guard OBJECT IDENTIFIER ::= { ugm 2 }
climate OBJECT IDENTIFIER ::= { ugm 3 }
dshdsl OBJECT IDENTIFIER ::= { ugm 4 }
sdfe OBJECT IDENTIFIER ::= { ugm 5 }
ump OBJECT IDENTIFIER ::= { ugm 6 }
kns OBJECT IDENTIFIER ::= { ugm 7 }
idp240 OBJECT IDENTIFIER ::= { ugm 8 }
idp350 OBJECT IDENTIFIER ::= { ugm 9 }
akb OBJECT IDENTIFIER ::= { ugm 10 }
load OBJECT IDENTIFIER ::= { ugm 11 }
elmetr OBJECT IDENTIFIER ::= { ugm 12 }
idp350v13 OBJECT IDENTIFIER ::= { ugm 13 }
puv2 OBJECT IDENTIFIER ::= { ugm 14 }
uka OBJECT IDENTIFIER ::= { ugm 15 }
ukn OBJECT IDENTIFIER ::= { ugm 16 }

-- Supply //!!!
--

-- SUPPLY PARAMS //!!!
--

supplyParams OBJECT IDENTIFIER ::= { supply 1 }
supplyParamList OBJECT IDENTIFIER ::= { supplyParams 1 }

supplyUPhase OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"A supply voltage."

::= { supplyParamList 1 }

supplyUHZ OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"A line frequency."

::= { supplyParamList 2 }

supplyUDC OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"A direct-current supply voltage."

::= { supplyParamList 3 }

supplyUDCNom OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"A direct-current nominal supply voltage."

::= { supplyParamList 4 }

-- SUPPLY TRAPS //!!!

--

supplyTraps OBJECT IDENTIFIER ::= { supply 2 }

supplyTrapList OBJECT IDENTIFIER ::= { supplyTraps 1 }

supplyAlarm NOTIFICATION-TYPE

OBJECTS { supplyUPhase, supplyUDC }

STATUS current

DESCRIPTION

"A supplyTrap trap is sent when the
value of supplyUDC or supplyUPhase is critical."

::= { supplyTrapList 1 }

supplyNormal NOTIFICATION-TYPE

OBJECTS { supplyUPhase, supplyUDC }

STATUS current

DESCRIPTION

"A supplyTrap trap is sent when the
value of supplyUDC or supplyUPhase is normal."

::= { supplyTrapList 2 }

supplyUPhaseTrap NOTIFICATION-TYPE

OBJECTS { supplyUPhase }

STATUS current

DESCRIPTION

"A supply trap of supplyUPhase sends periodically."

::= { supplyTrapList 3 }

supplyNoPhaseAlarm NOTIFICATION-TYPE

STATUS current

DESCRIPTION

"A supplyTrap trap is sent when the
value of supplyUPhase is 0."
::= { supplyTrapList 4 }

-- Guard //!!!
--

-- GUARD PARAMS //!!!
--

guardParams OBJECT IDENTIFIER ::= { guard 1 }
guardParamList OBJECT IDENTIFIER ::= { guardParams 1 }

guardKick OBJECT-TYPE

SYNTAX INTEGER {
normal(0),
kick (1)
}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"A kick case."
::= { guardParamList 1 }

guardLock OBJECT-TYPE

SYNTAX INTEGER {
normal(0),
lock (1)
}

```

MAX-ACCESS read-only

STATUS current

DESCRIPTION

    "A lock case."

::= { guardParamList 2 }

-----

--      GUARD TRAPS //!!!

--

guardTraps          OBJECT IDENTIFIER ::= { guard 2 }

guardTrapList       OBJECT IDENTIFIER ::= { guardTraps 1 }

guardAlarm NOTIFICATION-TYPE

OBJECTS { guardKick, guardLock }

STATUS current

DESCRIPTION

    "A guardTrap trap is sent when the

    value of an instance guardLock or guardKick alarm."

::= { guardTrapList 1 }

guardNormal NOTIFICATION-TYPE

OBJECTS { guardKick, guardLock }

STATUS current

DESCRIPTION

    "A guardTrap trap is sent when the

    value of an instance guardLock or guardKick normal."

::= { guardTrapList 2 }

-----

--      Climate //!!!

--

```

```

-----
--      CLIMATE PARAMS //!!!
--

climateParams  OBJECT IDENTIFIER ::= { climate 1 }

climateParamList OBJECT IDENTIFIER ::= { climateParams 1 }


climateStatus  OBJECT-TYPE
SYNTAX  INTEGER {
                normal(0),
                alarm (1)
            }
MAX-ACCESS read-only
STATUS   current
DESCRIPTION
    "Climate status."
 ::= { climateParamList 1 }


climateTempCooler  OBJECT-TYPE
SYNTAX  DisplayString
MAX-ACCESS read-write
STATUS   current
DESCRIPTION
    "Set-on cooler temperature."
 ::= { climateParamList 2 }


climateTempChoke  OBJECT-TYPE
SYNTAX  DisplayString
MAX-ACCESS read-write
STATUS   current
DESCRIPTION

```

```
        "Set-on choke temperature."
::= { climateParamList 3 }
```

```
climateTempHeater OBJECT-TYPE
SYNTAX    DisplayString
MAX-ACCESS read-write
STATUS    current
DESCRIPTION
```

```
        "Set-on heater temperature."
::= { climateParamList 4 }
```

```
climateSensTemp OBJECT-TYPE
SYNTAX    DisplayString
MAX-ACCESS read-only
STATUS    current
DESCRIPTION
```

```
        "All sensors temperature."
::= { climateParamList 5 }
```

```
-----
--      CLIMATE TRAPS //!!!
--
```

```
climateTraps          OBJECT IDENTIFIER ::= { climate 2 }
climateTrapList OBJECT IDENTIFIER ::= { climateTraps 1 }
```

```
climateAlarm NOTIFICATION-TYPE
OBJECTS { indexTS, temperature }
STATUS    current
DESCRIPTION
        "A climate trap is sent when the
        value of an instance temperature critical."
```

::= { climateTrapList 1 }

climateNormal NOTIFICATION-TYPE

STATUS current

DESCRIPTION

"A climate trap is sent when the
value of an instance temperature critical."

::= { climateTrapList 2 }

coolerAlarm NOTIFICATION-TYPE

STATUS current

DESCRIPTION

"A cooler trap is sent when cooler may be broken."

::= { climateTrapList 3 }

coolerNormal NOTIFICATION-TYPE

STATUS current

DESCRIPTION

"A climate trap is sent when cooler is alright(after may be broken)"

::= { climateTrapList 4 }

climateTempStat NOTIFICATION-TYPE

OBJECTS { climateSensTemp }

STATUS current

DESCRIPTION

"A climate trap of sensors temperature is sent periodically."

::= { climateTrapList 5 }

-- CLIMATE TEMPERATURE //!!!

--

temperatureSensorTable OBJECT-TYPE

SYNTAX SEQUENCE OF TemperatureSensors

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Contains information."

::= { climate 3 }

temperatureSensorEntry OBJECT-TYPE

SYNTAX TemperatureSensors

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry ."

INDEX { indexTS }

::= { temperatureSensorTable 1 }

TemperatureSensors ::= SEQUENCE {

indexTS INTEGER,

temperature DisplayString

}

indexTS OBJECT-TYPE

SYNTAX INTEGER (1..8)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Number of Temperature Sensor.

UGM	BEP
-----	-----

1 KNS-2	IDP-1/AKB
---------	-----------

2 KNS-3	IDP-2/KNS-1
---------	-------------

3 AKB	IDP-3
-------	-------

4 Case	IDP-4/KNS-2
--------	-------------

```

5          IDP-5/
6 KNS/IDP-4  IDP-6/KNS-3
7 GVS/IDP-5  IDP-7/
8 GVS-6      IDP-8/KNS-4
"
::= { temperatureSensorEntry 1 }

```

temperature OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This variable indicates the temperature (Celsius)."

```

::= { temperatureSensorEntry 2 }

```

```

-----
--      2SHDSL_2E1 //!!!
--

```

```

-----
--      2SHDSL_2E1 PARAM //!!!
--

```

dshdslParamTable OBJECT-TYPE

SYNTAX SEQUENCE OF DSHDSLPARAMEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Contains information."

```

::= { dshdsl 1 }

```

dshdslParamEntry OBJECT-TYPE

SYNTAX DSHDSLPARAMEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry containing information about PARAM ports."

INDEX { dshdslIndex }

::= { dshdslParamTable 1 }

DSHDSLPARAMEntry ::= SEQUENCE {

dshdslIndex INTEGER,

dshdslExist INTEGER,

dshdslPll INTEGER

}

dshdslIndex OBJECT-TYPE

SYNTAX INTEGER (1..16)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"A unique value, greater than zero."

::= { dshdslParamEntry 1 }

dshdslExist OBJECT-TYPE

SYNTAX INTEGER {

not-exist(0),

exist(1)

}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This variable indicates the Exist Board."

::= { dshdslParamEntry 2 }

dshdslPII OBJECT-TYPE

```
SYNTAX  INTEGER {  
  
        off(0),  
  
        shdsl-0(1),  
  
        shdsl-1(2),  
  
        pcm30-0(3),  
  
        pcm30-1(4)  
        }
```

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"PLL line current 2SHDSL_2E1s."

 ::= { dshdslParamEntry 3 }

-- 2SHDSL_2E1 TRAPS //!!!

--

dshdslTraps OBJECT IDENTIFIER ::= { dshdsl 2 }

dshdslTrapList OBJECT IDENTIFIER ::= { dshdslTraps 1 }

dshdslBoardUp NOTIFICATION-TYPE

OBJECTS { dshdslIndex }

STATUS current

DESCRIPTION

"A deviceTrap trap is sent when the device exist changes."

 ::= { dshdslTrapList 1 }

dshdslBoardDown NOTIFICATION-TYPE

OBJECTS { dshdslIndex }

STATUS current

DESCRIPTION

"A deviceTrap trap is sent when the device exist changes."

::= { dshdslTrapList 2 }

dshdslPcm30Alarm NOTIFICATION-TYPE

OBJECTS { dshdslIndex, dshdslPcm30Index, dshdslPcm30State }

STATUS current

DESCRIPTION

"A pcm30ChangeState_dshdsl trap is sent when the
value of an instance pcm30State_dshdsl changes."

::= { dshdslTrapList 3 }

dshdslPcm30Normal NOTIFICATION-TYPE

OBJECTS { dshdslIndex, dshdslPcm30Index, dshdslPcm30State }

STATUS current

DESCRIPTION

"A pcm30ChangeState_dshdsl trap is sent when the
value of an instance pcm30State_dshdsl changes."

::= { dshdslTrapList 4 }

dshdslShdslAlarm NOTIFICATION-TYPE

OBJECTS { dshdslIndex, dshdslShdslIndex, dshdslShdslState }

STATUS current

DESCRIPTION

"A shdslChangeState_dshdsl trap is sent when the
value of an 3instance shdslState_dshdsl changes."

::= { dshdslTrapList 5 }

dshdslShdslNormal NOTIFICATION-TYPE

OBJECTS { dshdslIndex, dshdslShdslIndex, dshdslShdslState }

STATUS current

DESCRIPTION

"A shdslChangeState_dshdsl trap is sent when the
value of an 3instance shdslState_dshdsl changes."

```
::= { dshdslTrapList 6 }
```

```
--      2SHDSL_2E1 PCM30 //!!!
```

```
--
```

dshdslPcm30Table OBJECT-TYPE

SYNTAX SEQUENCE OF DSHDSLPCM30Entry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Contains information."

```
::= { dshdsl 3 }
```

dshdslPcm30Entry OBJECT-TYPE

SYNTAX DSHDSLPCM30Entry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry containing information about PCM30 ports."

INDEX { dshdslPcm30Index }

```
::= { dshdslPcm30Table 1 }
```

DSHDSLPCM30Entry ::= SEQUENCE {

 dshdslPcm30Index INTEGER,

 dshdslPcm30State DisplayString,

 dshdslPcm30Status INTEGER,

 dshdslPcm30Code INTEGER,

 dshdslPcm30Transp INTEGER,

 dshdslPcm30Loop INTEGER,

 dshdslPcm30Nvp INTEGER,

 dshdslPcm30Pcs INTEGER,

dshdslPcm30Psc	INTEGER,
dshdslPcm30E3	INTEGER,
dshdslPcm30E5	INTEGER,
dshdslPcm30Aus	INTEGER

}

dshdslPcm30Index OBJECT-TYPE

SYNTAX INTEGER (1..32)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"A unique value, greater than zero."

::= { dshdslPcm30Entry 1 }

dshdslPcm30State OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"This variable indicates the Line Status of the interface.

It contains 'no input stream' (NVP), 'emergency indication

signal' (SIA), 'cycle synchronization lost' (PCS), E-3, E-5,

'far end emergency' (AUS), '(far end) supercycle synchronization

lost' (PSCS(U)). The ifPCM15CurrentState is a bit map represented

as a sum, therefore, it can represent multiple failures (alarms).

ifPCM15NoAlarm must be set if and only if no other flag is set.

The various bit positions are:

0 NoAlarm

1 NVP

2 SIA

4 PCS

8 E-3

```

16  E-5

32  AUS

64  PSCS

128 PSCSU

"

::= { dshdslPcm30Entry 2 }

dshdslPcm30Status OBJECT-TYPE

SYNTAX  INTEGER {

                                off(0),

                                on(1)

                                }

MAX-ACCESS read-write

STATUS   current

DESCRIPTION

    "Status of PCM30 of 2SHDSL_2E1 (off/on)."
```

```

::= { dshdslPcm30Entry 3 }

dshdslPcm30Code OBJECT-TYPE

SYNTAX  INTEGER {

                                ami(0),

                                hdb3(1)

                                }

MAX-ACCESS read-write

STATUS   current

DESCRIPTION

    "Current encoding of PCM30 of 2SHDSL_2E1 (ami/hdb3)."
```

```

::= { dshdslPcm30Entry 4 }

dshdslPcm30Transp OBJECT-TYPE

SYNTAX  INTEGER {

                                off(0),
```

```

                                on(1)
                                }
MAX-ACCESS read-write
STATUS current
DESCRIPTION
    "State of transparency of PCM30 of 2SHDSL_2E1 (off/on)."
```

::= { dshdslPcm30Entry 5 }

dshdslPcm30Loop OBJECT-TYPE

```

SYNTAX INTEGER {
                                no(0),
                                near(1),
                                far(2),
                                dual(3)
                                }
MAX-ACCESS read-write
STATUS current
DESCRIPTION
```

```

    "Value of loop of PCM30 of 2SHDSL_2E1 (no/far/near/dual)."
```

::= { dshdslPcm30Entry 6 }

dshdslPcm30Nvp OBJECT-TYPE

```

SYNTAX INTEGER
MAX-ACCESS read-only
STATUS current
DESCRIPTION
```

```

    "Value of nvp of PCM30 of 2SHDSL_2E1."
```

::= { dshdslPcm30Entry 7 }

dshdslPcm30Pcs OBJECT-TYPE

```

SYNTAX INTEGER
MAX-ACCESS read-only
```

STATUS current

DESCRIPTION

"Value of pcs of PCM30 of 2SHDSL_2E1."
::= { dshdslPcm30Entry 8 }

dshdslPcm30Psc OBJECT-TYPE

SYNTAX INTEGER

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Value of psc of PCM30 of 2SHDSL_2E1."
::= { dshdslPcm30Entry 9 }

dshdslPcm30E3 OBJECT-TYPE

SYNTAX INTEGER

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Value of e3 of PCM30 of 2SHDSL_2E1."
::= { dshdslPcm30Entry 10 }

dshdslPcm30E5 OBJECT-TYPE

SYNTAX INTEGER

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Value of e5 of PCM30 of 2SHDSL_2E1."
::= { dshdslPcm30Entry 11 }

dshdslPcm30Aus OBJECT-TYPE

SYNTAX INTEGER

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Value of aus of PCM30 of 2SHDSL_2E1."

::= { dshdslPcm30Entry 12 }

-- 2SHDSL_2E1 SHDSL //!!

--

dshdslShdslTable OBJECT-TYPE

SYNTAX SEQUENCE OF DSHDSLSHDSLEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Contains information."

::= { dshdsl 4 }

dshdslShdslEntry OBJECT-TYPE

SYNTAX DSHDSLSHDSLEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry containing information about SHDSL ports."

INDEX { dshdslShdslIndex }

::= { dshdslShdslTable 1 }

DSHDSLSHDSLEntry ::= SEQUENCE {

dshdslShdslIndex INTEGER,

dshdslShdslState DisplayString,

dshdslShdslStatus INTEGER,

dshdslShdslDescr DisplayString,

dshdslShdslRange INTEGER,

```

dshdslShdslMode          INTEGER,
dshdslShdslBackoff        INTEGER,
dshdslShdslChainFull      INTEGER,
dshdslShdslChainLen       INTEGER
}

```

dshdslShdslIndex OBJECT-TYPE

SYNTAX INTEGER (1..32)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"A unique value, greater than zero."

::= { dshdslShdslEntry 1 }

dshdslShdslState OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"This variable indicates the Line Status of the interface.

It contains 'no input stream' (NVP), 'chain shdsl is broken' (ChainBroken)

The various bitpositions are:

0 NoAlarm

1 NVP

2 ChainBroken

"

::= { dshdslShdslEntry 2 }

dshdslShdslStatus OBJECT-TYPE

SYNTAX INTEGER {

off(0),

on(1)

}

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"Status of shdsl of 2SHDSL_2E1 (off/on)."

::= { dshdslShdslEntry 3 }

dshdslShdslDescr OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"Description of place where is shdsl of 2SHDSL_2E1."

::= { dshdslShdslEntry 4 }

dshdslShdslRange OBJECT-TYPE

SYNTAX INTEGER

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"Current range of shdsl of 2SHDSL_2E1."

::= { dshdslShdslEntry 5 }

dshdslShdslMode OBJECT-TYPE

SYNTAX INTEGER {

lt(0),

mt(1)

}

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"Current mode of shdsl of 2SHDSL_2E1 (lt/mt)."

::= { dshdslShdslEntry 6 }

dshdslShdslBackoff OBJECT-TYPE

SYNTAX INTEGER

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"Value of backoff of shdsl of 2SHDSL_2E1."

::= { dshdslShdslEntry 7 }

dshdslShdslChainFull OBJECT-TYPE

SYNTAX INTEGER

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Indicates entirety of chain of shdsl of 2SHDSL_2E1."

::= { dshdslShdslEntry 8 }

dshdslShdslChainLen OBJECT-TYPE

SYNTAX INTEGER

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Length of chain of shdsl of 2SHDSL_2E1."

::= { dshdslShdslEntry 9 }

-- 2SHDSL_2E1 SHDSL SOCIF //!!!

--

dshdslSocifTable OBJECT-TYPE

SYNTAX SEQUENCE OF DSHDSL SocifEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Contains information."

::= { dshdsl 5 }

dshdslSocifEntry OBJECT-TYPE

SYNTAX DSHDSL SocifEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry containing information about SHDSL'S SOCIF ports."

INDEX { dshdslSocifIndex }

::= { dshdslSocifTable 1 }

DSHDSL SocifEntry ::= SEQUENCE {

dshdslSocifIndex INTEGER,

dshdslSocifStatus DisplayString

}

dshdslSocifIndex OBJECT-TYPE

SYNTAX INTEGER (1..512)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"A unique value, greater than zero."

::= { dshdslSocifEntry 1 }

dshdslSocifStatus OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Parameters status of socif of shdsl of 2SHDSL_2E1."

::= { dshdslSocifEntry 2 }

-- 2SHDSL_4E1 (SDFE) //!!!
--

-- SDFE PARAM //!!!
--

sdfiParamTable OBJECT-TYPE

SYNTAX SEQUENCE OF SDFEPARAMEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Contains information."

::= { sdfe 1 }

sdfiParamEntry OBJECT-TYPE

SYNTAX SDFEPARAMEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry containing information about PARAM ports."

INDEX { sdfeIndex }

::= { sdfiParamTable 1 }

SDFEPARAMEntry ::= SEQUENCE {

 sdfeIndex INTEGER,

```
sdfExist    INTEGER

}
```

sdfIndex OBJECT-TYPE

SYNTAX INTEGER (1..16)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"A unique value, greater than zero."

::= { sdfParamEntry 1 }

sdfExist OBJECT-TYPE

SYNTAX INTEGER {

 not-exist(0),

 exist(1)

 }

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This variable indicates the Exist Board."

::= { sdfParamEntry 2 }

-- SDFE TRAPS //!!!

--

sdfTraps OBJECT IDENTIFIER ::= { sdf 2 }

sdfTrapList OBJECT IDENTIFIER ::= { sdfTraps 1 }

sdfBoardUp NOTIFICATION-TYPE

OBJECTS { sdfIndex }

STATUS current

DESCRIPTION

"A deviceTrap trap is sent when the device exist changes."
::= { sdfeTrapList 1 }

sdfBoardDown NOTIFICATION-TYPE

OBJECTS { sdfeIndex }
STATUS current
DESCRIPTION
"A deviceTrap trap is sent when the device exist changes."
::= { sdfeTrapList 2 }

sdfPcm30Alarm NOTIFICATION-TYPE

OBJECTS { sdfeIndex, sdfPcm30Index, sdfPcm30State }
STATUS current
DESCRIPTION
"A pcm30ChangeState_sdf trap is sent when the
value of an instance pcm30State_sdf changes."
::= { sdfeTrapList 3 }

sdfPcm30Normal NOTIFICATION-TYPE

OBJECTS { sdfeIndex, sdfPcm30Index, sdfPcm30State }
STATUS current
DESCRIPTION
"A pcm30ChangeState_sdf trap is sent when the
value of an instance pcm30State_sdf changes."
::= { sdfeTrapList 4 }

sdfShdslAlarm NOTIFICATION-TYPE

OBJECTS { sdfeIndex, sdfShdslIndex, sdfShdslState }
STATUS current
DESCRIPTION
"A shdslChangeState_sdf trap is sent when the
value of an 3instance shdslState_sdf changes."

::= { sdfeTrapList 5 }

sdfeshdslNormal NOTIFICATION-TYPE

OBJECTS { sdfeIndex, sdfeshdslIndex, sdfeshdslState }

STATUS current

DESCRIPTION

"A shdslChangeState_sdfeshdsl trap is sent when the
value of an 3instance shdslState_sdfeshdsl changes."

::= { sdfeTrapList 6 }

-- SDFE PCM30 //!!!

--

sdfepcm30Table OBJECT-TYPE

SYNTAX SEQUENCE OF SDFEPCM30Entry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Contains information."

::= { sdfeshdsl 3 }

sdfepcm30Entry OBJECT-TYPE

SYNTAX SDFEPCM30Entry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry containing information about PCM30 ports."

INDEX { sdfepcm30Index }

::= { sdfepcm30Table 1 }

SDFEPCM30Entry ::= SEQUENCE {

sdfePcm30Index	INTEGER,
sdfePcm30State	DisplayString,
sdfePcm30Status	INTEGER,
sdfePcm30Code	INTEGER,
sdfePcm30Transp	INTEGER,
sdfePcm30Loop	INTEGER,
sdfePcm30Nvp	INTEGER,
sdfePcm30Pcs	INTEGER,
sdfePcm30Psc	INTEGER,
sdfePcm30E3	INTEGER,
sdfePcm30E5	INTEGER,
sdfePcm30Aus	INTEGER

}

sdfePcm30Index OBJECT-TYPE

SYNTAX INTEGER (1..64)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"A unique value, greater than zero."

::= { sdfePcm30Entry 1 }

sdfePcm30State OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"This variable indicates the Line Status of the interface."

::= { sdfePcm30Entry 2 }

sdfePcm30Status OBJECT-TYPE

SYNTAX INTEGER {

off(0),

on(1)

}

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"Status of PCM30 of 2SHDSL_2E1 (off/on)."

::= { sdfePcm30Entry 3 }

sdfepcm30code OBJECT-TYPE

SYNTAX INTEGER {

ami(0),

hdb3(1)

}

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"Current encoding of PCM30 of 2SHDSL_4E1 (ami/hdb3)."

::= { sdfePcm30Entry 4 }

sdfepcm30transp OBJECT-TYPE

SYNTAX INTEGER {

off(0),

on(1)

}

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"State of transparency of PCM30 of 2SHDSL_4E1 (off/on)."

::= { sdfePcm30Entry 5 }

sdfepcm30loop OBJECT-TYPE

SYNTAX INTEGER {

 no(0),

 near(1),

 far(2),

 dual(3)

 }

MAX-ACCESS read-write

STATUS current

DESCRIPTION

 "Value of loop of PCM30 of 2SHDSL_4E1 (no/far/near/dual)."
::= { sdfePcm30Entry 6 }

sdfepcm30nvp OBJECT-TYPE

SYNTAX INTEGER

MAX-ACCESS read-only

STATUS current

DESCRIPTION

 "Value of nvp of PCM30 of 2SHDSL_4E1."
::= { sdfePcm30Entry 7 }

sdfepcm30pcs OBJECT-TYPE

SYNTAX INTEGER

MAX-ACCESS read-only

STATUS current

DESCRIPTION

 "Value of pcs of PCM30 of 2SHDSL_4E1."
::= { sdfePcm30Entry 8 }

sdfepcm30psc OBJECT-TYPE

SYNTAX INTEGER

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Value of psc of PCM30 of 2SHDSL_4E1."
::= { sdfePcm30Entry 9 }

sdfepcm30e3 OBJECT-TYPE

SYNTAX INTEGER

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Value of e3 of PCM30 of 2SHDSL_4E1."
::= { sdfePcm30Entry 10 }

sdfepcm30e5 OBJECT-TYPE

SYNTAX INTEGER

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Value of e5 of PCM30 of 2SHDSL_4E1."
::= { sdfePcm30Entry 11 }

sdfepcm30aus OBJECT-TYPE

SYNTAX INTEGER

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Value of aus of PCM30 of 2SHDSL_4E1."
::= { sdfePcm30Entry 12 }

-- SDFE SHDSL //!!!

--

sdfeShdslTable OBJECT-TYPE

SYNTAX SEQUENCE OF SDFESHDSLEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Contains information."

::= { sdfe 4 }

sdfeShdslEntry OBJECT-TYPE

SYNTAX SDFESHDSLEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry containing information about SHDSL ports."

INDEX { sdfeShdslIndex }

::= { sdfeShdslTable 1 }

SDFESHDSLEntry ::= SEQUENCE {

sdfeShdslIndex INTEGER,

sdfeShdslState DisplayString,

sdfeShdslStatus INTEGER,

sdfeShdslDescr DisplayString,

sdfeShdslRange INTEGER,

sdfeShdslMode INTEGER,

sdfeShdslChainFull INTEGER,

sdfeShdslChainLen INTEGER

}

sdfeShdslIndex OBJECT-TYPE

SYNTAX INTEGER (1..32)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"A unique value, greater than zero."

::= { sdfeShdslEntry 1 }

sdfShdslState OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"This variable indicates the Line Status of the interface.

It contains 'no input stream' (NVP), 'chain shdsl is broken' (ChainBroken)

The various bitpositions are:

0 NoAlarm

1 NVP

2 ChainBroken

"

::= { sdfeShdslEntry 2 }

sdfShdslStatus OBJECT-TYPE

SYNTAX INTEGER {
off(0),
on(1)
}

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"Status of shdsl of 2SHDSL_4E1 (off/on)."

::= { sdfeShdslEntry 3 }

sdfShdslDescr OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"Description of place where is shdsl of 2SHDSL_4E1."

::= { sdfeShdslEntry 4 }

sdfeshdslrange OBJECT-TYPE

SYNTAX INTEGER

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"Current range of shdsl of 2SHDSL_4E1."

::= { sdfeShdslEntry 5 }

sdfeshdslmode OBJECT-TYPE

SYNTAX INTEGER {

 lt(0),

 mt(1)

 }

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"Current mode of shdsl of 2SHDSL_4E1 (lt/mt)."

::= { sdfeShdslEntry 6 }

sdfeshdslchainfull OBJECT-TYPE

SYNTAX INTEGER

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Indicates entirety of chain of shdsl of 2SHDSL_4E1."

::= { sdfeShdslEntry 7 }

sdfeShdslChainLen OBJECT-TYPE

SYNTAX INTEGER

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Length of chain of shdsl of 2SHDSL_4E1."

::= { sdfeShdslEntry 8 }

-- 2SHDSL_4E1 SDFE SOCIF //!!!

--

sdfeSocifTable OBJECT-TYPE

SYNTAX SEQUENCE OF SDFESOCIFEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Contains information."

::= { sdfe 5 }

sdfeSocifEntry OBJECT-TYPE

SYNTAX SDFESOCIFEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry containing information about SHDSL'S SOCIF ports."

INDEX { sdfeSocifIndex }

::= { sdfeSocifTable 1 }

SDFESOCIFEntry ::= SEQUENCE {

sdfeSocifIndex INTEGER,

sdfeSocifStatus DisplayString

}

sdfeSocifIndex OBJECT-TYPE

SYNTAX INTEGER (1..512)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"A unique value, greater than zero."

::= { sdfeSocifEntry 1 }

sdfeSocifStatus OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Parameters status of socif of sdfe of 2SHDSL_4E1."

::= { sdfeSocifEntry 2 }

-- SDFE ETDM //!!!

--

sdfeEtdmTable OBJECT-TYPE

SYNTAX SEQUENCE OF SDFEETDMEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Contains information."

::= { sdfe 6 }

sdfeEtdmEntry OBJECT-TYPE

SYNTAX SDFEETDMEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry containing information about SHDSL ports."

INDEX { sdfeIndex }

::= { sdfeEtdmTable 1 }

SDFEETDMEEntry ::= SEQUENCE {

sdfEtdmStatus INTEGER,

sdfEtdmRange INTEGER

}

sdfEtdmStatus OBJECT-TYPE

SYNTAX INTEGER {

off(0),

on(1)

}

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"Status of etdm of 2SHDSL_4E1 (off/on)."

::= { sdfEtdmEntry 1 }

sdfEtdmRange OBJECT-TYPE

SYNTAX INTEGER

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"Current range of etdm of 2SHDSL_4E1."

::= { sdfEtdmEntry 2 }

-- SDFE PLL //!!!

--

sdfepIITable OBJECT-TYPE

SYNTAX SEQUENCE OF SDFEPLLEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Contains information."

::= { sdfe 7 }

sdfepIIEEntry OBJECT-TYPE

SYNTAX SDFEPLLEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry containing information about PLL ports."

INDEX { sdfeIndex }

::= { sdfepIITable 1 }

SDFEPLLEntry ::= SEQUENCE {

sdfepIISource0 INTEGER,

sdfepIISource1 INTEGER,

sdfepIISource2 INTEGER,

sdfepIISource3 INTEGER,

sdfepIICntSrc INTEGER,

sdfepIICurPISrc DisplayString,

sdfepIICurPhase INTEGER,

sdfepIIFlowPhase INTEGER,

sdfepIICodeDac INTEGER,

sdfepIIStepPII INTEGER

}

sdfePllSource0 OBJECT-TYPE

SYNTAX INTEGER {

 off(0),

 shdsl-0(1),

 shdsl-1(2),

 pcm30-0(3),

 pcm30-1(4),

 pcm30-2(5),

 pcm30-3(6)

}

MAX-ACCESS read-write

STATUS current

DESCRIPTION

 "Source0 of pll of 2SHDSL_4E1 (off/shdsl_0/shdsl_1/pcm30_0/pcm30_1/pcm30_2/pcm30_3)."
 ::= { sdfePllEntry 1 }

sdfePllSource1 OBJECT-TYPE

SYNTAX INTEGER {

 off(0),

 shdsl-0(1),

 shdsl-1(2),

 pcm30-0(3),

 pcm30-1(4),

 pcm30-2(5),

 pcm30-3(6)

}

MAX-ACCESS read-write

STATUS current

DESCRIPTION

 "Source1 of pll of 2SHDSL_4E1 (off/shdsl_0/shdsl_1/pcm30_0/pcm30_1/pcm30_2/pcm30_3)."
 ::= { sdfePllEntry 2 }

sdfePllSource2 OBJECT-TYPE

SYNTAX INTEGER {

 off(0),

 shdsl-0(1),

 shdsl-1(2),

 pcm30-0(3),

 pcm30-1(4),

 pcm30-2(5),

 pcm30-3(6)

}

MAX-ACCESS read-write

STATUS current

DESCRIPTION

 "Source2 of pll of 2SHDSL_4E1 (off/shdsl_0/shdsl_1/pcm30_0/pcm30_1/pcm30_2/pcm30_3)."
 ::= { sdfePllEntry 3 }

sdfePllSource3 OBJECT-TYPE

SYNTAX INTEGER {

 off(0),

 shdsl-0(1),

 shdsl-1(2),

 pcm30-0(3),

 pcm30-1(4),

 pcm30-2(5),

 pcm30-3(6)

}

MAX-ACCESS read-write

STATUS current

DESCRIPTION

 "Source3 of pll of 2SHDSL_4E1 (off/shdsl_0/shdsl_1/pcm30_0/pcm30_1/pcm30_2/pcm30_3)."
 ::= { sdfePllEntry 4 }

sdfePllCntSrc OBJECT-TYPE

SYNTAX INTEGER

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"CNT_SRC of pll of 2SHDSL_4E1."

::= { sdfePllEntry 5 }

sdfePllCurPllSrc OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Current source of pll of 2SHDSL_4E1."

::= { sdfePllEntry 6 }

sdfePllCurPhase OBJECT-TYPE

SYNTAX INTEGER

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Current phase of pll of 2SHDSL_4E1."

::= { sdfePllEntry 7 }

sdfePllFlowPhase OBJECT-TYPE

SYNTAX INTEGER

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Flow phase of pll of 2SHDSL_4E1."

::= { sdfePllEntry 8 }

sdfePllCodeDac OBJECT-TYPE

SYNTAX INTEGER

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"CODE_DAC of pll of 2SHDSL_4E1."

::= { sdfePllEntry 9 }

sdfePllStepPll OBJECT-TYPE

SYNTAX INTEGER

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Step of pll of 2SHDSL_4E1."

::= { sdfePllEntry 10 }

-- UMP //!!!

--

-- UMP PARAM //!!!

--

umpParamTable OBJECT-TYPE

SYNTAX SEQUENCE OF UMPPARAMEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Contains information."

::= { ump 1 }

umpParamEntry OBJECT-TYPE

SYNTAX UMPPARAMEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry containing information about PARAM ports."

INDEX { umpIndex }

::= { umpParamTable 1 }

UMPPARAMEntry ::= SEQUENCE {

umpIndex INTEGER,

umpFlowState DisplayString,

umpExist INTEGER,

umpNvp INTEGER,

umpPcs INTEGER,

umpAus INTEGER

}

umpIndex OBJECT-TYPE

SYNTAX INTEGER (1..16)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"A unique value, greater than zero."

::= { umpParamEntry 1 }

umpFlowState OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"This variable indicates the Line Status of the interface.
It contains 'no input stream' (NVP), 'emergency indication
signal' (SIA), 'cycle synchronization lost' (PCS), E-3, E-5,
'far end emergency' (AUS), '(far end) supercycle synchronization
lost' (PSCS(U)). The ifPCM15CurrentState is a bit map represented
as a sum, therefore, it can represent multiple failures (alarms).
ifPCM15NoAlarm must be set if and only if no other flag is set.
The various bit positions are:

0	NoAlarm
1	NVP
2	SIA
4	PCS
8	E-3
16	E-5
32	AUS
64	PSCS
128	PSCSU

"

::= { umpParamEntry 2 }

umpExist OBJECT-TYPE

SYNTAX INTEGER {

 not-exist(0),

 exist(1)

 }

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This variable indicates the Exist Board."

::= { umpParamEntry 3 }

umpNvp OBJECT-TYPE

SYNTAX INTEGER

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This variable indicates the NVP."

::= { umpParamEntry 4 }

umpPcs OBJECT-TYPE

SYNTAX INTEGER

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This variable indicates the PCS."

::= { umpParamEntry 5 }

umpAus OBJECT-TYPE

SYNTAX INTEGER

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This variable indicates the AUS."

::= { umpParamEntry 6 }

-- UMP TRAPS //!!!

--

umpTraps OBJECT IDENTIFIER ::= { ump 2 }

umpTrapList OBJECT IDENTIFIER ::= { umpTraps 1 }

umpBoardUp NOTIFICATION-TYPE

OBJECTS { umpIndex }

STATUS current

DESCRIPTION

"A deviceTrap trap is sent when the device exist changes."

::= { umpTrapList 1 }

umpBoardDown NOTIFICATION-TYPE

OBJECTS { umpIndex }

STATUS current

DESCRIPTION

"A deviceTrap trap is sent when the device exist changes."

::= { umpTrapList 2 }

umpFlowAlarm NOTIFICATION-TYPE

OBJECTS { umpIndex, umpFlowState }

STATUS current

DESCRIPTION

"A flowChangeState_ump trap is sent when the
value of an instance flowState_ump changes."

::= { umpTrapList 3 }

umpFlowNormal NOTIFICATION-TYPE

OBJECTS { umpIndex, umpFlowState }

STATUS current

DESCRIPTION

"A flowChangeState_ump trap is sent when the
value of an instance flowState_ump changes."

::= { umpTrapList 4 }

-- KNS //!!!

--

-- KNS PARAM //!!!

--

knsParamTable OBJECT-TYPE

SYNTAX SEQUENCE OF KNSPARAMEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Contains information."

::= { kns 1 }

knsParamEntry OBJECT-TYPE

SYNTAX KNSPARAMEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry containing information about PARAM ports."

INDEX { knsIndex }

::= { knsParamTable 1 }

KNSPARAMEntry ::= SEQUENCE {

knsIndex INTEGER,

knsExist INTEGER,

knsStatus INTEGER,

knsT DisplayString,

knsState DisplayString

}

knsIndex OBJECT-TYPE

SYNTAX INTEGER (1..8)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"A unique value, greater than zero."

::= { knsParamEntry 1 }

knsExist OBJECT-TYPE

SYNTAX INTEGER {

not-exist(0),

exist(1)

}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This variable indicates the Exist Board."

::= { knsParamEntry 2 }

knsStatus OBJECT-TYPE

SYNTAX INTEGER {

off(0),

on(1)

}

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"This variable indicates the state of Board (off/on)."

::= { knsParamEntry 3 }

knsT OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This variable indicates the Temperature."
::= { knsParamEntry 4 }

knsState OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"This variable indicates the Line Status of the interface.

ALARM is sent when any of alarm is occurred.

ALARM SUPPLY is sent when alarm supply is occurred.

LIMITATION is sent when limitation is occurred.

OVERHEAT is sent when overheat is occurred."
::= { knsParamEntry 5 }

-- KNS TRAPS ///!!

--

knsTraps OBJECT IDENTIFIER ::= { kns 2 }

knsTrapList OBJECT IDENTIFIER ::= { knsTraps 1 }

knsBoardUp NOTIFICATION-TYPE

OBJECTS { knsIndex }

STATUS current

DESCRIPTION

"A deviceTrap trap is sent when the device exist changes."
::= { knsTrapList 1 }

knsBoardDown NOTIFICATION-TYPE

OBJECTS { knsIndex }

STATUS current

DESCRIPTION

"A deviceTrap trap is sent when the device exist changes."

::= { knsTrapList 2 }

knsAlarm NOTIFICATION-TYPE

OBJECTS { knsIndex, knsState}

STATUS current

DESCRIPTION

"A knsAlarm trap is sent when the
value of an instance knsState changes alarm."

::= { knsTrapList 3 }

knsNormal NOTIFICATION-TYPE

OBJECTS { knsIndex, knsState }

STATUS current

DESCRIPTION

"A knsNormal trap is sent when the
value of an instance knsState changes normal."

::= { knsTrapList 4 }

-- IDP240 //!!!

--

-- IDP240 PARAM //!!!

--

idp240ParamTable OBJECT-TYPE

SYNTAX SEQUENCE OF IDP240PARAMEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

 "Contains information."

::= { idp240 1 }

idp240ParamEntry OBJECT-TYPE

SYNTAX IDP240PARAMEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

 "An entry containing information about PARAM ports."

INDEX { idp240Index }

::= { idp240ParamTable 1 }

IDP240PARAMEntry ::= SEQUENCE {

 idp240Index INTEGER,

 idp240Exist INTEGER,

idp240Status INTEGER,

 idp240T DisplayString,

idp240TCrit DisplayString,

 idp240UOut DisplayString,

idp240UNom DisplayString,

 idp240IOut DisplayString,

idp240INom DisplayString,

 idp240Iutechki DisplayString,

idp240Jumpers INTEGER,

idp240JumpersSet INTEGER,

idp240INomSet DisplayString,

 idp240UkzSet DisplayString,

idp240IxxSet DisplayString,

 idp240UMaxSet DisplayString,

idp240IMaxSet DisplayString,

idp240State DisplayString

 }

idp240Index OBJECT-TYPE

SYNTAX INTEGER (1..8)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

 "A unique value, greater than zero."

::= { idp240ParamEntry 1 }

idp240Exist OBJECT-TYPE

SYNTAX INTEGER {

 not-exist(0),

 exist(1)

 }

MAX-ACCESS read-only

STATUS current

DESCRIPTION

 "This variable indicates the Exist Board."

::= { idp240ParamEntry 2 }

idp240Status OBJECT-TYPE

SYNTAX INTEGER {

 off(0),

 on(1)

}

MAX-ACCESS read-write

STATUS current

DESCRIPTION

 "A textual string containing interface status."

::= { idp240ParamEntry 3 }

idp240T OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Temperature line current IDP240s."

::= { idp240ParamEntry 4 }

idp240TCrit OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"Critical temperature line current IDP240s."

::= { idp240ParamEntry 5 }

idp240UOut OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"U_OUT line current IDP240s."

::= { idp240ParamEntry 6 }

idp240UNom OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"U_NOM line current IDP240s."

::= { idp240ParamEntry 7 }

idp240IOut OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"I_OUT line current IDP240s."

::= { idp240ParamEntry 8 }

idp240INom OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"I_NOM line current IDP240s."

::= { idp240ParamEntry 9 }

idp240Iutechki OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"I-ullage line current IDP240s."

::= { idp240ParamEntry 10 }

idp240Jumpers OBJECT-TYPE

SYNTAX INTEGER

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Jumpers line current IDP240s."

::= { idp240ParamEntry 11 }

idp240JumpersSet OBJECT-TYPE

SYNTAX INTEGER

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"Jumpers-set line current IDP240s."

::= { idp240ParamEntry 12 }

idp240INomSet OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"I_NOM_SET line current IDP240s."

::= { idp240ParamEntry 13 }

idp240UkzSet OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"U_KZ_SET line current IDP240s."

::= { idp240ParamEntry 14 }

idp240IxxSet OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"I_XX_SET line current IDP240s."

::= { idp240ParamEntry 15 }

idp240UMaxSet OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"I_MAX_SET line current IDP240s."

::= { idp240ParamEntry 16 }

idp240IMaxSet OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"I_MAX_SET line current IDP240s."

::= { idp240ParamEntry 17 }

idp240State OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"This variable indicates the Line Status of the interface.

ALARM is sent when any of alarm is occurred.

SHORT-CIRCUIT is sent when short-circuit is occurred.

LIMITATION is sent when limitation is occurred.

LINE-BREAK is sent when line-break is occurred.

LEAKAGE is sent when I-LEAKAGE is occurred.

REJECT is sent when REJECT is occurred.

SHORT-CIRCUIT-I-MAX is sent when short-circuit and limitation I-max is occurred."

::= { idp240ParamEntry 18 }

```

-----

--      IDP240 TRAPS ///!!

--

idp240Traps          OBJECT IDENTIFIER ::= { idp240 2 }

idp240TrapList       OBJECT IDENTIFIER ::= { idp240Traps 1 }


idp240BoardUp NOTIFICATION-TYPE

    OBJECTS { idp240Index }

    STATUS     current

    DESCRIPTION

        "A deviceTrap trap is sent when the device exist changes."

    ::= { idp240TrapList 1 }


idp240BoardDown NOTIFICATION-TYPE

    OBJECTS { idp240Index }

    STATUS     current

    DESCRIPTION

        "A deviceTrap trap is sent when the device exist changes."

    ::= { idp240TrapList 2 }


idp240Alarm NOTIFICATION-TYPE

    OBJECTS { idp240Index, idp240State }

    STATUS     current

    DESCRIPTION

        "A idp240Alarm trap is sent when the

        value of an instance idp240State changes alarm."

    ::= { idp240TrapList 3 }


idp240Normal NOTIFICATION-TYPE

    OBJECTS { idp240Index, idp240State }

    STATUS     current

    DESCRIPTION

```

"A idp240Normal trap is sent when the
value of an instance idp240State changes normal."
::= { idp240TrapList 4 }

-- IDP350 ///!!
--

-- IDP350 PARAM ///!!
--

idp350ParamTable OBJECT-TYPE

SYNTAX SEQUENCE OF IDP350PARAMEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Contains information."

::= { idp350 1 }

idp350ParamEntry OBJECT-TYPE

SYNTAX IDP350PARAMEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry containing information about PARAM ports."

INDEX { idp350Index }

::= { idp350ParamTable 1 }

IDP350PARAMEntry ::= SEQUENCE {

idp350Index INTEGER,

idp350Exist INTEGER,

idp350Status	INTEGER,
idp350T	DisplayString,
idp350UOut	DisplayString,
idp350IOut	DisplayString,
idp350INom	DisplayString,
idp350Iutechki	DisplayString,
idp350Jumpers	INTEGER,
idp350JumpersSet	INTEGER,
idp350UNomSet	DisplayString,
idp350INomSet	DisplayString,
idp350UkzSet	DisplayString,
idp350IxxSet	DisplayString,
idp350UMaxSet	DisplayString,
idp350IMaxSet	DisplayString,
idp350IUte4Set	DisplayString,
idp350State	DisplayString
	}

idp350Index OBJECT-TYPE

SYNTAX INTEGER (1..8)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"A unique value, greater than zero."

::= { idp350ParamEntry 1 }

idp350Exist OBJECT-TYPE

SYNTAX INTEGER {
not-exist(0),
exist(1)
}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This variable indicates the Exist Board."

::= { idp350ParamEntry 2 }

idp350Status OBJECT-TYPE

SYNTAX INTEGER {

 off(0),

 on(1)

}

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"A textual string containing interface status."

::= { idp350ParamEntry 3 }

idp350T OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Temperature line current IDP350s."

::= { idp350ParamEntry 4 }

idp350UOut OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"U_OUT line current IDP350s."

::= { idp350ParamEntry 5 }

idp350IOut OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"I_OUT line current IDP350s."

::= { idp350ParamEntry 6 }

idp350INom OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"I_NOM line current IDP350s."

::= { idp350ParamEntry 7 }

idp350Iutechki OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"I-ullage line current IDP350s."

::= { idp350ParamEntry 8 }

idp350Jumpers OBJECT-TYPE

SYNTAX INTEGER

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Jumpers line current IDP350s."

::= { idp350ParamEntry 9 }

idp350JumpersSet OBJECT-TYPE

SYNTAX INTEGER

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"Jumpers-set line current IDP350s."

::= { idp350ParamEntry 10 }

idp350UNomSet OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"I_NOM_SET line current IDP350s."

::= { idp350ParamEntry 11 }

idp350INomSet OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"I_NOM_SET line current IDP350s."

::= { idp350ParamEntry 12 }

idp350UkzSet OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"I_KZ_SET line current IDP350s."

::= { idp350ParamEntry 13 }

idp350IxxSet OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"I_XX_SET line current IDP350s."

::= { idp350ParamEntry 14 }

idp350UMaxSet OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"I_MAX_SET line current IDP350s."

::= { idp350ParamEntry 15 }

idp350IMaxSet OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"I_MAX_SET line current IDP350s."

::= { idp350ParamEntry 16 }

idp350IUte4Set OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"I_UTE4_SET line current IDP350s."

::= { idp350ParamEntry 17 }

idp350State OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"This variable indicates the Line Status of the interface.

ALARM is sent when any of alarm is occurred.

SHORT-CIRCUIT is sent when short-circuit is occurred.

LIMITATION is sent when limitation is occurred.

LINE-BREAK is sent when line-break is occurred.

LEAKAGE is sent when I-LEAKAGE is occurred.

REJECT1 is sent when REJECT is occurred.

REJECT2 is sent when REJECT is occurred."

::= { idp350ParamEntry 18 }

-- IDP350 TRAPS //!!!

--

idp350Traps OBJECT IDENTIFIER ::= { idp350 2 }

idp350TrapList OBJECT IDENTIFIER ::= { idp350Traps 1 }

idp350BoardUp NOTIFICATION-TYPE

OBJECTS { idp350Index }

STATUS current

DESCRIPTION

"A deviceTrap trap is sent when the device exist changes."

::= { idp350TrapList 1 }

idp350BoardDown NOTIFICATION-TYPE

OBJECTS { idp350Index }

STATUS current

DESCRIPTION

"A deviceTrap trap is sent when the device exist changes."
::= { idp350TrapList 2 }

idp350Alarm NOTIFICATION-TYPE

OBJECTS { idp350Index, idp350State }

STATUS current

DESCRIPTION

"A idp350Alarm trap is sent when the
value of an instance idp350State changes alarm."
::= { idp350TrapList 3 }

idp350Normal NOTIFICATION-TYPE

OBJECTS { idp350Index, idp350State }

STATUS current

DESCRIPTION

"A idp350Normal trap is sent when the
value of an instance idp350State changes normal."
::= { idp350TrapList 4 }

--*****

-- AKB

--*****

akbTable OBJECT-TYPE

SYNTAX SEQUENCE OF AKBEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A list of AKB interface entries. The number of entries is
given by the value of ifNumber."

::= { akb 1 }

akbEntry OBJECT-TYPE

SYNTAX AKBEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry containing management information applicable to a
particular AKB interface."

INDEX { akbIndex }

::= { akbTable 1 }

AKBEntry ::= SEQUENCE {

akbIndex	InterfaceIndex,
akbExist	INTEGER,
akbStatus	INTEGER,
akbU1	DisplayString,
akbU2	DisplayString,
akbU3	DisplayString,
akbU4	DisplayString,
akbU5	DisplayString,
akbI	DisplayString,
akbT	DisplayString,
akbUCharg	DisplayString,
akbTKcoeff	DisplayString,
akbIMax	DisplayString
	}

akbIndex OBJECT-TYPE

SYNTAX InterfaceIndex

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"A unique value, greater than zero, for each interface. It is recommended that values are assigned contiguously starting from 1. The value for each interface sub-layer must remain constant at least from one re-initialization of the entity's network management system to the next re-initialization."

::= { akbEntry 1 }

akbExist OBJECT-TYPE

SYNTAX INTEGER {
not-exist(0),
exist(1)
}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This variable indicates the Exist AKB."

::= { akbEntry 2 }

akbStatus OBJECT-TYPE

SYNTAX INTEGER {
off(0),
on(1)
}

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"A textual string containing interface status."

::= { akbEntry 3 }

akbU1 OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

 "U1 line current AKBs."

::= { akbEntry 4 }

akbU2 OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

 "U2 line current AKBs."

::= { akbEntry 5 }

akbU3 OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

 "U3 line current AKBs."

::= { akbEntry 6 }

akbU4 OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

 "U4 line current AKBs."

::= { akbEntry 7 }

akbU5 OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

 "U5 line current AKBs."

::= { akbEntry 8 }

akbI OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

 "I line current AKBs."

::= { akbEntry 9 }

akbT OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

 "T line current AKBs."

::= { akbEntry 10 }

akbUCharg OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS read-write

STATUS current

DESCRIPTION

 "U_CHARG line current AKBs."

::= { akbEntry 11 }

akbTKoeff OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS read-write

STATUS current

DESCRIPTION

 "T_KOEFF line current AKBs."

::= { akbEntry 12 }

akbIMax OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS read-write

STATUS current

DESCRIPTION

 "I_MAX line current AKBs."

::= { akbEntry 13 }

-- AKB TRAPS

--

akbTraps OBJECT IDENTIFIER ::= { akb 2 }

akbTrapList OBJECT IDENTIFIER ::= { akbTraps 1 }

akbUp NOTIFICATION-TYPE

OBJECTS { akbIndex }

STATUS current

DESCRIPTION

 "A deviceTrap trap is sent when the device exist changes."

::= { akbTrapList 1 }

akbDown NOTIFICATION-TYPE

OBJECTS { akbIndex }

STATUS current

DESCRIPTION

```

        "A deviceTrap trap is sent when the device exist changes."

 ::= { akbTrapList 2 }

```

```

--*****

```

```

--      LOAD

```

```

--*****

```

```

loadParams          OBJECT IDENTIFIER ::= { load 1 }

loadParamList  OBJECT IDENTIFIER ::= { loadParams 1 }

```

```

loadStatus OBJECT-TYPE

SYNTAX      INTEGER

    MAX-ACCESS read-write

    STATUS    current

    DESCRIPTION

        "A counter of elmetr."

 ::= { loadParamList 1 }

```

```

loadI  OBJECT-TYPE

SYNTAX      INTEGER

    MAX-ACCESS read-write

    STATUS    current

    DESCRIPTION

        "A coefficient of elmetr."

 ::= { loadParamList 2 }

```

```

loadAlarm1 OBJECT-TYPE

SYNTAX      INTEGER {

        normal(0),

```

```
alarm(1)

}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

    "Alarm of first load."

::= { loadParamList 3 }
```

```
loadAlarm2 OBJECT-TYPE

SYNTAX INTEGER {

    normal(0),

    alarm(1)

}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

    "Alarm of second load."

::= { loadParamList 4 }
```

```
loadAlarm3 OBJECT-TYPE

SYNTAX INTEGER{

    normal(0),

    alarm(1)

}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

    "Alarm of third load."

::= { loadParamList 5 }
```

-- LOAD TRAPS //!!!

--

loadTraps OBJECT IDENTIFIER ::= { load 2 }

loadTrapList OBJECT IDENTIFIER ::= { loadTraps 1 }

loadAlarm NOTIFICATION-TYPE

OBJECTS { loadAlarm1, loadAlarm2, loadAlarm3 }

STATUS current

DESCRIPTION

"A loadTrap trap is sent when the

value of an instance loadAlarm1 or loadAlarm2 or loadAlarm3 alarm."

::= { loadTrapList 1 }

loadNormal NOTIFICATION-TYPE

OBJECTS { loadAlarm1, loadAlarm2, loadAlarm3 }

STATUS current

DESCRIPTION

"A loadTrap trap is sent when the

value of an instance loadAlarm1 or loadAlarm2 or loadAlarm3 normal."

::= { loadTrapList 2 }

-- ElMetr //!!!

--

-- ElMetr PARAMS //!!!

--

elmetrParams OBJECT IDENTIFIER ::= { elmetr 1 }

elметрParamList OBJECT IDENTIFIER ::= { elметрParams 1 }

elметрCounter OBJECT-TYPE

SYNTAX INTEGER

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"A counter of elметр."

::= { elметрParamList 1 }

elметрCoeff OBJECT-TYPE

SYNTAX INTEGER

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"A coefficient of elметр."

::= { elметрParamList 2 }

-- IDP350v13 //!!!

--

-- IDP350v13 PARAM //!!!

--

idp350v13ParamTable OBJECT-TYPE

SYNTAX SEQUENCE OF IDP350V13PARAMEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Contains information."

::= { idp350v13 1 }

idp350v13ParamEntry OBJECT-TYPE

SYNTAX IDP350V13PARAMEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry containing information about PARAM ports."

INDEX { idp350v13Index }

::= { idp350v13ParamTable 1 }

IDP350V13PARAMEntry ::= SEQUENCE {

idp350v13Index	INTEGER,
idp350v13Exist	INTEGER,
idp350v13State	DisplayString,
idp350v13Status	INTEGER,
idp350v13UL	INTEGER,
idp350v13UH	INTEGER,
idp350v13T	DisplayString,
idp350v13UOut	DisplayString,
idp350v13IOut	DisplayString,
idp350v13Iutechki	DisplayString,
idp350v13Jumpers	INTEGER,
idp350v13JumpersSet	INTEGER,
idp350v13UNomSet	DisplayString,
idp350v13INomSet	DisplayString,
idp350v13IxxSet	DisplayString,
idp350v13RUte4Set	DisplayString

}

idp350v13Index OBJECT-TYPE

SYNTAX INTEGER (1..8)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"A unique value, greater than zero."

::= { idp350v13ParamEntry 1 }

idp350v13Exist OBJECT-TYPE

SYNTAX INTEGER {
not-exist(0),
exist(1)
}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This variable indicates the Exist Board."

::= { idp350v13ParamEntry 2 }

idp350v13State OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"This variable indicates the Line Status of the interface.

ALARM is sent when any of alarm is occurred.

SHORT-CIRCUIT is sent when short-circuit is occurred.

LIMITATION is sent when limitation is occurred.

LINE-BREAK is sent when line-break is occurred.

LEAKAGE is sent when I-LEAKAGE is occurred.

REJECT1 is sent when REJECT is occurred.

REJECT2 is sent when REJECT is occurred."

::= { idp350v13ParamEntry 3 }

idp350v13Status OBJECT-TYPE

SYNTAX INTEGER {

off(0),

on(1)

}

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"A textual string containing interface status."

::= { idp350v13ParamEntry 4 }

idp350v13UL OBJECT-TYPE

SYNTAX INTEGER {

off(0),

on(1)

}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"UL line current IDP350s."

::= { idp350v13ParamEntry 5 }

idp350v13UH OBJECT-TYPE

SYNTAX INTEGER {

off(0),

on(1)

}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"UH line current IDP350s."
::= { idp350v13ParamEntry 6 }

idp350v13T OBJECT-TYPE

SYNTAX DisplayString
MAX-ACCESS read-only
STATUS current
DESCRIPTION

"Temperature line current IDP350s."
::= { idp350v13ParamEntry 7 }

idp350v13UOut OBJECT-TYPE

SYNTAX DisplayString
MAX-ACCESS read-only
STATUS current
DESCRIPTION

"U_OUT line current IDP350s."
::= { idp350v13ParamEntry 8 }

idp350v13IOut OBJECT-TYPE

SYNTAX DisplayString
MAX-ACCESS read-only
STATUS current
DESCRIPTION

"I_OUT line current IDP350s."
::= { idp350v13ParamEntry 9 }

idp350v13Iutechki OBJECT-TYPE

SYNTAX DisplayString
MAX-ACCESS read-only
STATUS current
DESCRIPTION

```

        "I-ullage line current IDP350s."

 ::= { idp350v13ParamEntry 10 }

idp350v13Jumpers OBJECT-TYPE

    SYNTAX      INTEGER

    MAX-ACCESS  read-only

    STATUS      current

    DESCRIPTION

        "Jumpers line current IDP350s."

 ::= { idp350v13ParamEntry 11 }

idp350v13JumpersSet OBJECT-TYPE

    SYNTAX      INTEGER

    MAX-ACCESS  read-write

    STATUS      current

    DESCRIPTION

        "Jumpers-set line current IDP350s."

 ::= { idp350v13ParamEntry 12 }

idp350v13UNomSet OBJECT-TYPE

    SYNTAX      DisplayString

    MAX-ACCESS  read-write

    STATUS      current

    DESCRIPTION

        "I_NOM_SET line current IDP350s."

 ::= { idp350v13ParamEntry 13 }

idp350v13INomSet OBJECT-TYPE

    SYNTAX      DisplayString

    MAX-ACCESS  read-write

    STATUS      current

    DESCRIPTION

```

```
"I_NOM_SET line current IDP350s."  
::= { idp350v13ParamEntry 14 }
```

idp350v13IxxSet OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS read-write

STATUS current

DESCRIPTION

```
"I_XX_SET line current IDP350s."  
::= { idp350v13ParamEntry 15 }
```

idp350v13RUte4Set OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS read-write

STATUS current

DESCRIPTION

```
"R_UTE4_SET line current IDP350s."  
::= { idp350v13ParamEntry 16 }
```

```
--      idp350v13 TRAPS //!!!
```

```
--
```

```
idp350v13Traps          OBJECT IDENTIFIER ::= { idp350v13 2 }
```

```
idp350v13TrapList       OBJECT IDENTIFIER ::= { idp350v13Traps 1 }
```

idp350v13BoardUp NOTIFICATION-TYPE

OBJECTS { idp350v13Index }

STATUS current

DESCRIPTION

```
"A deviceTrap trap is sent when the device exist changes."  
::= { idp350v13TrapList 1 }
```

idp350v13BoardDown NOTIFICATION-TYPE

OBJECTS { idp350v13Index }

STATUS current

DESCRIPTION

"A deviceTrap trap is sent when the device exist changes."

::= { idp350v13TrapList 2 }

idp350v13Alarm NOTIFICATION-TYPE

OBJECTS { idp350v13Index, idp350v13State }

STATUS current

DESCRIPTION

"A idp350v13Alarm trap is sent when the
value of an instance idp350v13State changes alarm."

::= { idp350v13TrapList 3 }

idp350v13Normal NOTIFICATION-TYPE

OBJECTS { idp350v13Index, idp350v13State }

STATUS current

DESCRIPTION

"A idp350v13Normal trap is sent when the
value of an instance idp350v13State changes normal."

::= { idp350v13TrapList 4 }

-- PUV2 //!!!

--

-- PUV2 PARAM //!!!

--

puv2ParamTable OBJECT-TYPE

SYNTAX SEQUENCE OF PUV2PARAMEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Contains information."

::= { puv2 1 }

puv2ParamEntry OBJECT-TYPE

SYNTAX PUV2PARAMEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry containing information about PARAM ports."

INDEX { puv2Index }

::= { puv2ParamTable 1 }

PUV2PARAMEntry ::= SEQUENCE {

 puv2Index INTEGER,

 puv2Exist INTEGER,

 puv2State DisplayString,

 puv2Status1 INTEGER,

 puv2Status2 INTEGER,

 puv2Mode1 INTEGER,

 puv2Mode2 INTEGER,

 puv2SpeedMode1 INTEGER,

 puv2SpeedMode2 INTEGER,

 puv2I1 INTEGER,

 puv2I2 INTEGER,

 puv2Speed1 INTEGER,

 puv2Speed2 INTEGER

 }

puv2Index OBJECT-TYPE

SYNTAX INTEGER (1..8)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"A unique value, greater than zero."

::= { puv2ParamEntry 1 }

puv2Exist OBJECT-TYPE

SYNTAX INTEGER {
not-exist(0),
exist(1)
}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This variable indicates the Exist Board."

::= { puv2ParamEntry 2 }

puv2State OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"This variable indicates the Line Status of the interface.

ALARM is sent when wedging is occurred."

::= { puv2ParamEntry 3 }

puv2Status1 OBJECT-TYPE

SYNTAX INTEGER {

on(0),

```

        off(1)
    }

    MAX-ACCESS read-write

    STATUS current

    DESCRIPTION

        "This parameter containing first fan status."

    ::= { puv2ParamEntry 4 }


puv2Status2 OBJECT-TYPE

    SYNTAX INTEGER {

        on(0),

        off(1)

    }

    MAX-ACCESS read-write

    STATUS current

    DESCRIPTION

        "This parameter containing second fan status."

    ::= { puv2ParamEntry 5 }


puv2Mode1 OBJECT-TYPE

    SYNTAX INTEGER {

        auto(0),

        manual(1)

    }

    MAX-ACCESS read-write

    STATUS current

    DESCRIPTION

        "This parameter containing first fan mode.

        auto - program switches this fan

        manual - user switches this fan(program don't)"

    ::= { puv2ParamEntry 6 }

```

puv2Mode2 OBJECT-TYPE

SYNTAX INTEGER {

auto(0),

manual(1)

}

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"This parameter containing second fan mode.

auto - program switches this fan

manual - user switches this fan(program don't)"

::= { puv2ParamEntry 7 }

puv2SpeedMode1 OBJECT-TYPE

SYNTAX INTEGER (0..9)

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"This parameter containing first fan speed mode."

::= { puv2ParamEntry 8 }

puv2SpeedMode2 OBJECT-TYPE

SYNTAX INTEGER (0..9)

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"This parameter containing second fan speed mode. "

::= { puv2ParamEntry 9 }

puv2I1 OBJECT-TYPE

SYNTAX INTEGER (0..2000)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This parameter containing first fan current (mA)."

::= { puv2ParamEntry 10 }

puv2I2 OBJECT-TYPE

SYNTAX INTEGER (0..2000)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This parameter containing second fan current (mA)."

::= { puv2ParamEntry 11 }

puv2Speed1 OBJECT-TYPE

SYNTAX INTEGER (0..3500)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This parameter containing first fan speed (rpm)."

::= { puv2ParamEntry 12 }

puv2Speed2 OBJECT-TYPE

SYNTAX INTEGER (0..3500)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This parameter containing second fan speed (rpm). "

::= { puv2ParamEntry 13 }

-- puv2 TRAPS //!!!

--

puv2Traps	OBJECT IDENTIFIER ::= { puv2 2 }
puv2TrapList	OBJECT IDENTIFIER ::= { puv2Traps 1 }

puv2BoardUp NOTIFICATION-TYPE

OBJECTS { puv2Index }

STATUS current

DESCRIPTION

"A deviceTrap trap is sent when the device exist changes."

::= { puv2TrapList 1 }

puv2BoardDown NOTIFICATION-TYPE

OBJECTS { puv2Index }

STATUS current

DESCRIPTION

"A deviceTrap trap is sent when the device exist changes."

::= { puv2TrapList 2 }

puv2Alarm NOTIFICATION-TYPE

OBJECTS { puv2Index, puv2State }

STATUS current

DESCRIPTION

"A puv2Alarm trap is sent when the
value of an instance puv2State changes alarm."

::= { puv2TrapList 3 }

puv2Normal NOTIFICATION-TYPE

OBJECTS { puv2Index, puv2State }

STATUS current

DESCRIPTION

"A puv2Normal trap is sent when the
value of an instance puv2State changes normal."

::= { puv2TrapList 4 }

-- UKA //!!!

--

-- UKA PARAM //!!!

--

ukaParamTable OBJECT-TYPE

SYNTAX SEQUENCE OF UKAPARAMEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

 "Contains information."

::= { uka 1 }

ukaParamEntry OBJECT-TYPE

SYNTAX UKAPARAMEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

 "An entry containing information about PARAM ports."

INDEX { ukaIndex }

::= { ukaParamTable 1 }

UKAPARAMEntry ::= SEQUENCE {

 ukaIndex INTEGER,

 ukaExist INTEGER,

 ukaState DisplayString,

 ukaBCount INTEGER,

 ukaU1 DisplayString,

ukaU2	DisplayString,
ukaU3	DisplayString,
ukaU4	DisplayString,
ukaU5	DisplayString,
ukaI	DisplayString,
ukaCurBreaker	INTEGER,
ukaSwCtrlSwitch	INTEGER,
ukaI2cAddress	INTEGER,
ukaReboot	INTEGER
}	

ukaIndex OBJECT-TYPE

SYNTAX INTEGER (1..4)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"A unique value, greater than zero."

::= { ukaParamEntry 1 }

ukaExist OBJECT-TYPE

SYNTAX INTEGER {
not-exist(0),
exist(1)
}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This variable indicates the Exist Board."

::= { ukaParamEntry 2 }

ukaState OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"This variable indicates the Line Status of the interface.

ALARM U1(or U2 ... U5) is sent when U1(or U2 ... U5) is lesser when Umin."

::= { ukaParamEntry 3 }

ukaBCount OBJECT-TYPE

SYNTAX INTEGER {

four(4),

five(5)

}

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"This variable indicates count of accumulators."

::= { ukaParamEntry 4 }

ukaU1 OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This variable indicates the voltage(V) of first accumulator."

::= { ukaParamEntry 5 }

ukaU2 OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This variable indicates the voltage(V) of second accumulator."
::= { ukaParamEntry 6 }

ukaU3 OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This variable indicates the voltage(V) of fird accumulator."
::= { ukaParamEntry 7 }

ukaU4 OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This variable indicates the voltage(V) of fourth accumulator."
::= { ukaParamEntry 8 }

ukaU5 OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This variable indicates the voltage(V) of fifth accumulator."
::= { ukaParamEntry 9 }

ukaI OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

```

        "This variable indicates current(A)."

::= { ukaParamEntry 10 }

ukaCurBreaker OBJECT-TYPE

SYNTAX    INTEGER {

                                off(0),

                                on(1)

                                }

MAX-ACCESS read-only

STATUS    current

DESCRIPTION

        "This variable indicates state of curcuit breaker."

::= { ukaParamEntry 11 }

```

```

ukaSwCtrlSwitch OBJECT-TYPE

SYNTAX    INTEGER {

                                off(0),

                                on(1)

                                }

MAX-ACCESS read-write

STATUS    current

DESCRIPTION

        "This variable indicates state of software controlable switch(power MOSFET)."

::= { ukaParamEntry 12 }

```

```

ukaI2cAddress OBJECT-TYPE

SYNTAX    INTEGER {

                                uka3(66),

                                uka4(67)

                                }

MAX-ACCESS read-write

STATUS    current

```

DESCRIPTION

"This variable sets i2cAddress."

::= { ukaParamEntry 13 }

ukaReboot OBJECT-TYPE

SYNTAX INTEGER {
reboot(1)
}

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"This variable reboots uka."

::= { ukaParamEntry 14 }

-- uka TRAPS //!!!

--

ukaTraps	OBJECT IDENTIFIER ::= { uka 2 }
ukaTrapList	OBJECT IDENTIFIER ::= { ukaTraps 1 }

ukaBoardUp NOTIFICATION-TYPE

OBJECTS { ukaIndex }

STATUS current

DESCRIPTION

"A deviceTrap trap is sent when the device exist changes."

::= { ukaTrapList 1 }

ukaBoardDown NOTIFICATION-TYPE

OBJECTS { ukaIndex }

STATUS current

DESCRIPTION

"A deviceTrap trap is sent when the device exist changes."

::= { ukaTrapList 2 }

ukaAlarm NOTIFICATION-TYPE

OBJECTS { ukaIndex, ukaState }

STATUS current

DESCRIPTION

"A ukaAlarm trap is sent when the
value of an instance ukaState changes alarm."

::= { ukaTrapList 3 }

ukaNormal NOTIFICATION-TYPE

OBJECTS { ukaIndex, ukaState }

STATUS current

DESCRIPTION

"A ukaNormal trap is sent when the
value of an instance ukaState changes normal."

::= { ukaTrapList 4 }

-- UKN //!!!

--

-- UKN PARAM //!!!

--

uknParamTable OBJECT-TYPE

SYNTAX SEQUENCE OF UKNPARAMEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Contains information."

::= { ukn 1 }

uknParamEntry OBJECT-TYPE

SYNTAX UKNPARAMEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry containing information about PARAM ports."

INDEX { uknIndex }

::= { uknParamTable 1 }

UKNPARAMEntry ::= SEQUENCE {

uknIndex INTEGER,

uknExist INTEGER,

uknState DisplayString,

uknU DisplayString,

uknI DisplayString,

uknCurBreaker INTEGER,

uknSwCtrlSwitch INTEGER,

uknWithKeyMode INTEGER,

uknUChargeMin DisplayString,

uknTimeSOff INTEGER,

uknI2cAddress INTEGER,

uknReboot INTEGER

}

uknIndex OBJECT-TYPE

SYNTAX INTEGER (1..4)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"A unique value, greater than zero."

::= { uknParamEntry 1 }

uknExist OBJECT-TYPE

SYNTAX INTEGER {
not-exist(0),
exist(1)
}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This variable indicates the Exist Board."

::= { uknParamEntry 2 }

uknState OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"This variable indicates the Line Status of the interface."

::= { uknParamEntry 3 }

uknU OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This variable indicates the voltage(V) of fifth accumulator."

::= { uknParamEntry 4 }

uknI OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This variable indicates current(A)."

::= { uknParamEntry 5 }

uknCurBreaker OBJECT-TYPE

SYNTAX INTEGER {

off(0),

on(1)

}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This variable indicates state of curcuit breaker."

::= { uknParamEntry 6 }

uknSwCtrlSwitch OBJECT-TYPE

SYNTAX INTEGER {

off(0),

on(1)

}

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"This variable indicates state of software controlable switch(power MOSFET)."

::= { uknParamEntry 7 }

uknWithKeyMode OBJECT-TYPE

SYNTAX INTEGER {

off(0),

on(1)

}

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"This variable indicates if MSK controls software controlable switch (power MOSFET)."

::= { uknParamEntry 8 }

uknUChargeMin OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"This variable indicates when MSK should switch off software controlable switch (power MOSFET)."

::= { uknParamEntry 9 }

uknTimeSOff OBJECT-TYPE

SYNTAX INTEGER

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"This variable indicates when MSK should switch off software controlable switch (power MOSFET)
after UChargeMin had happend."

::= { uknParamEntry 10 }

uknI2cAddress OBJECT-TYPE

SYNTAX INTEGER {

ukn1(64),

ukn2(65)

}

MAX-ACCESS read-write

STATUS current

DESCRIPTION

```
        "This variable sets i2cAddress."  
 ::= { uknParamEntry 11 }
```

uknReboot OBJECT-TYPE

```
SYNTAX    INTEGER {  
        reboot(1)  
        }  
MAX-ACCESS read-write  
STATUS    current  
DESCRIPTION
```

```
        "This variable reboots ukn."  
 ::= { uknParamEntry 12 }
```

```
--      ukn TRAPS //!!!  
--
```

```
uknTraps                OBJECT IDENTIFIER ::= { ukn 2 }  
uknTrapList             OBJECT IDENTIFIER ::= { uknTraps 1 }
```

uknBoardUp NOTIFICATION-TYPE

```
OBJECTS { uknIndex }  
STATUS    current  
DESCRIPTION
```

```
        "A deviceTrap trap is sent when the device exist changes."  
 ::= { uknTrapList 1 }
```

uknBoardDown NOTIFICATION-TYPE

```
OBJECTS { uknIndex }  
STATUS    current  
DESCRIPTION
```

```
        "A deviceTrap trap is sent when the device exist changes."  
 ::= { uknTrapList 2 }
```

Описание информационных сообщений, передаваемых по протоколу SNMP.

Наименование аварии	Описание	Дополнительные параметры
<i>SystemInitTrap</i> 1.3.6.1.4.1.27142.1.12.1.2.1.1	Старт системы. Используется для сброса аварий после перезагрузки системы или при установлении связи с сервером после ее потери.	
Supply		
<i>SupplyAlarm</i> 1.3.6.1.4.1.27142.1.12.1.2.1.1 — установка аварии <i>SupplyNormal</i> 1.3.6.1.4.1.27142.1.12.1.2.1.2 — сброс аварии	Напряжение сети выходит за границы допустимых значений (85-265 В).	<i>SupplyUPhase</i> — Напряжение сети (85-265 В)
<i>SupplyNoPhaseAlarm</i> 1.3.6.1.4.1.27142.1.12.1.2.1.3 — установка аварии <i>SupplyNormal</i> 1.3.6.1.4.1.27142.1.12.1.2.1.2 — сброс аварии	Пропало напряжение сети.	
Guard		
<i>GuardAlarm</i> 1.3.6.1.4.1.27142.1.12.2.2.1.1 — установка аварии <i>GuardNormal</i> 1.3.6.1.4.1.27142.1.12.2.2.1.2 — сброс аварии	Изменение состояния охранной системы	<i>GuardKick</i> — удар <i>GuardLock</i> — вскрытие периметра
Climate		
<i>ClimateAlarm</i> 1.3.6.1.4.1.27142.1.12.3.2.1.1 — установка аварии <i>ClimateNormal</i> 1.3.6.1.4.1.27142.1.12.3.2.1.2 — сброс аварии	Превышение устанавливаемого порога одним из датчиков температуры	<i>IndexTS</i> — Номер датчика
		<i>Temperature</i> — температура
2SHDSL-2E1-Eth		
<i>DshdslBoardUp</i> 1.3.6.1.4.1.27142.1.12.4.2.1.1 <i>DshdslBoardDown</i> 1.3.6.1.4.1.27142.1.12.4.2.1.2	Изъята плата 2shdsl-2e1 Установлена плата 2shdsl-2e1	<i>DshdslIndex</i> — Номер платы
<i>DshdslPcm30Alarm</i> 1.3.6.1.4.1.27142.1.12.4.2.1.3	Изменилось состояние потока E1	<i>DshdslIndex</i> — номер платы

— установка аварии <i>DshdslPcm30Normal</i> <i>1.3.6.1.4.1.27142.1.12.4.2.1.4</i> — сброс аварии		<i>DshdslPcm30Index</i> — номер потока <i>DshdslPcm30State</i> — состояние потока PMC30: <i>NVP</i> — отсутствует входной поток; <i>PCS</i> — потеря цикловой синхронизации; <i>AUS</i> — авария удаленной стороны
<i>DshdslShdslAlarm</i> <i>1.3.6.1.4.1.27142.1.12.4.2.1.5</i> — установка аварии <i>DshdslShdslNormal</i> <i>1.3.6.1.4.1.27142.1.12.4.2.1.6</i> — сброс аварии	Изменилось состояние потока SHDSL	<i>DshdslIndex</i> — номер платы
		<i>DshdslShdslIndex</i> — номер потока
		<i>DshdslShdslState</i> — состояние SHDSL потока: <i>Chain_Broken</i> — разрыв цепочки.
2SHDSL-4E1-Eth (SDFE)		
<i>SdfeBoardUp</i> <i>1.3.6.1.4.1.27142.1.12.5.2.1.1</i>	Изъята плата 2shdsl-4e1-eth	<i>SdfeIndex</i> — номер платы
<i>SdfeBoardDown</i> <i>1.3.6.1.4.1.27142.1.12.5.2.1.2</i>	Установлена плата 2shdsl-4e1-eth	
<i>SdfePcm30Alarm</i> <i>1.3.6.1.4.1.27142.1.12.5.2.1.3</i> — установка аварии <i>SdfePcm30Normal</i> <i>1.3.6.1.4.1.27142.1.12.5.2.1.4</i> — сброс аварии	Изменилось состояние потока E1	<i>SdfeIndex</i> — номер платы
		<i>SdfePcm30Index</i> — номер потока
		<i>SdfePcm30State</i> — состояние потока PMC30: <i>NVP</i> — отсутствует входной поток; <i>PCS</i> — потеря цикловой синхронизации; <i>AUS</i> — авария удаленной стороны
<i>SdfeShdslAlarm</i> <i>1.3.6.1.4.1.27142.1.12.5.2.1.5</i> — установка аварии <i>SdfeShdslNormal</i> <i>1.3.6.1.4.1.27142.1.12.5.2.1.6</i> — сброс аварии	Изменилось состояние потока SHDSL	<i>SdfeIndex</i> — номер платы <i>SdfeShdslIndex</i> — номер потока <i>SdfeShdslState</i> — состояние SHDSL потока: <i>Chain_Broken</i> — разрыв цепочки.
УМП		

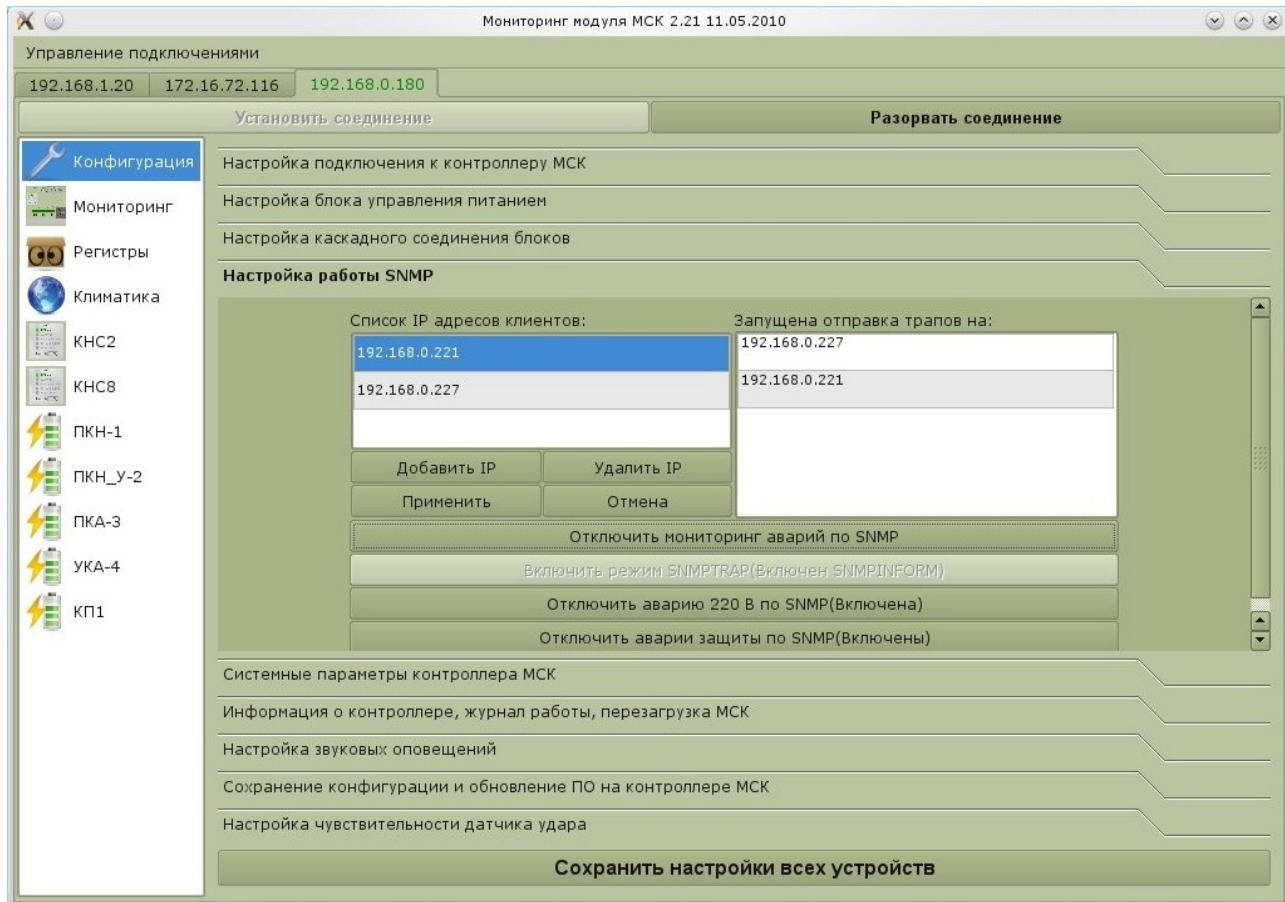
<i>UmpBoardUp</i> <i>1.3.6.1.4.1.27142.1.12.6.2.1.1</i>	Изъята плата УМП	<i>UmpIndex</i> — Номер платы
<i>UmpBoardDown</i> <i>1.3.6.1.4.1.27142.1.12.6.2.1.2</i>	Установлена плата УМП	
<i>UmpFlowAlarm</i> <i>1.3.6.1.4.1.27142.1.12.6.2.1.3</i> — установка аварии <i>UmpFlowNormal</i> <i>1.3.6.1.4.1.27142.1.12.6.2.1.4</i> — сброс аварии	Изменилось состояние потока E1	<i>UmpIndex</i> — номер платы
		<i>UmpFlowIndex</i> — номер потока
		<i>UmpFlowState</i> — состояние потока PMC30
ИДП-240		
<i>Idp240BoardUp</i> <i>1.3.6.1.4.1.27142.1.12.8.2.1.1</i>	Изъята плата ИДП-240	<i>Idp240Index</i> — номер платы
<i>Idp240BoardDown</i> <i>1.3.6.1.4.1.27142.1.12.8.2.1.2</i>	Установлена плата ИДП-240	
<i>Idp240Alarm</i> <i>1.3.6.1.4.1.27142.1.12.8.2.1.3</i> — установка аварии <i>Idp240Normal</i> <i>1.3.6.1.4.1.27142.1.12.8.2.1.4</i> — сброс аварии	Изменилось состояние ИДП- 240	<i>Idp240Index</i> — номер платы
		<i>Idp240Status</i> — состояние ИДП-240: <i>ALARM</i> — общая авария; <i>SHORT-CIRCUIT</i> — короткое замыкание, напряжение на выходе ниже заданного порога; <i>LINE-BREAK</i> — обрыв, ток нагрузки ниже заданного порога; <i>LEAKAGE</i> — утечка, ток утечки выше заданного порога; <i>REJECT</i> — отказ, блок неисправен; <i>SHORT-CIRCUIT-I-MAX</i> — короткое замыкание в нагрузке.
ИДП-350		
<i>Idp350BoardUp</i> <i>1.3.6.1.4.1.27142.1.12.9.2.1.1</i>	Изъята плата ИДП-350	<i>Idp350Index</i> — номер платы
<i>Idp350BoardDown</i> <i>1.3.6.1.4.1.27142.1.12.9.2.1.2</i>	Установлена плата ИДП-350	
<i>Idp350Alarm</i> <i>1.3.6.1.4.1.27142.1.12.9.2.1.3</i> — установка аварии	Изменилось состояние ИДП- 350	<i>Idp350Index</i> — номер платы

<i>Idp350Normal</i> <i>1.3.6.1.4.1.27142.1.12.9.2.1.4</i> — сброс аварии		<i>Idp350Status</i> — состояние ИДП-350: <i>ALARM</i> — общая авария ИДП350; <i>SHORT-CIRCUIT</i> — короткое замыкание, напряжение на выходе ниже заданного порога; <i>LIMITATION</i> — ограничение, напряжение ниже заданного, ток равен току ограничения; <i>LINE-BREAK</i> — обрыв, ток нагрузки ниже заданного порога; <i>LEAKAGE</i> — утечка, ток утечки выше заданного порога; <i>REJECT1</i> — отказ1, отключен(нет напряжения и тока); <i>REJECT2</i> — отказ2, напряжение или ток больше нормы.
ИДП-350 v.1.3		
<i>Id3350v13BoardUp</i> <i>1.3.6.1.4.1.27142.1.12.13.2.1.1</i> <i>Idp350v13BoardDown</i> <i>1.3.6.1.4.1.27142.1.12.13.2.1.2</i>	Изъята плата ИДП-350v13 Установлена плата ИДП-350v13	<i>Idp350v13Index</i> — номер платы
<i>Idp350v13Alarm</i> <i>1.3.6.1.4.1.27142.1.12.13.2.1.3</i> — установка аварии <i>Idp350v13Normal</i> <i>1.3.6.1.4.1.27142.1.12.13.2.1.4</i> — сброс аварии	Изменилось состояние ИДП-350v13	<i>Idp350v13Index</i> — номер платы <i>Idp350v13Status</i> — состояние ИДП-350v13: <i>ALARM</i> — общая авария ИДП350; <i>SHORT-CIRCUIT</i> — короткое замыкание, напряжение на выходе ниже заданного порога; <i>LIMITATION</i> — ограничение, напряжение ниже заданного, ток равен току ограничения; <i>LINE-BREAK</i> — обрыв, ток нагрузки ниже заданного порога;

		<i>LEAKAGE</i> — утечка, сопротивление утечки ниже заданного порога; <i>REJECT1</i> — отказ1, отключен(нет напряжения и тока); <i>REJECT2</i> — отказ2, напряжение или ток больше нормы.
КНС		
<i>KnsBoardUp</i> <i>1.3.6.1.4.1.27142.1.12.7.2.1.1</i>	Изъята плата КНС	<i>KnsIndex</i> — номер платы
<i>KnsBoardDown</i> <i>1.3.6.1.4.1.27142.1.12.7.2.1.2</i>	Установлена плата КНС	
<i>KnsAlarm</i> <i>1.3.6.1.4.1.27142.1.12.7.2.1.3</i> — установка аварии <i>KnsNormal</i> <i>1.3.6.1.4.1.27142.1.12.7.2.1.4</i> — сброс аварии	Изменилось состояние КНС	<i>KnsIndex</i> — номер платы
		<i>KnsStatus</i> — состояние КНС: <i>ALARM</i> — общая авария КНС; <i>ALARM SUPPLY</i> — авария сети, нет входного напряжения; <i>LIMITATION</i> — ограничение, ток нагрузки $\geq$ максимального; <i>OVERHEAT</i> — перегрев
ПУВ2		
<i>Puv2BoardUp</i> <i>1.3.6.1.4.1.27142.1.12.14.2.1.1</i>	Изъято устройство/плата ПУВ2	<i>Puv2Index</i> — номер устройства/платы
<i>Puv2BoardDown</i> <i>1.3.6.1.4.1.27142.1.12.14.2.1.2</i>	Установлено устройство/плата ПУВ2	
<i>Puv2Alarm</i> <i>1.3.6.1.4.1.27142.1.12.14.2.1.3</i> — установка аварии <i>Puv2Normal</i> <i>1.3.6.1.4.1.27142.1.12.14.2.1.4</i> — сброс аварии	Изменилось состояние ПУВ2	<i>Puv2Index</i> — номер устройства/платы
		<i>Puv2State</i> — состояние ПУВ2: <i>ALARM1</i> — произошло заклинивание первого вентилятора; <i>ALARM2</i> — произошло заклинивание второго вентилятора.
УКА		
<i>UkaBoardUp</i>	Изъято устройство/плата УКА	<i>UkaIndex</i> — номер

1.3.6.1.4.1.27142.1.12.15.2.1.1		устройства/платы
<i>UkaBoardDown</i> 1.3.6.1.4.1.27142.1.12.15.2.1.2	Установлено устройство/плата УКА	
<i>UkaAlarm</i> 1.3.6.1.4.1.27142.1.12.15.2.1.3 — установка аварии <i>UkaNormal</i> 1.3.6.1.4.1.27142.1.12.15.2.1.4 — сброс аварии	Изменилось состояние УКА	<i>UkaIndex</i> — номер устройства/платы
		<i>UkaState</i> — состояние УКА: <i>U1</i> — U1 меньше Umin; <i>U2</i> — U2 меньше Umin; <i>U3</i> — U3 меньше Umin; <i>U4</i> — U4 меньше Umin; <i>U5</i> — U5 меньше Umin
УКН/ПКН/ПКН_У		
<i>UknBoardUp</i> 1.3.6.1.4.1.27142.1.12.16.2.1.1	Изъято устройство/плата УКН/ПКН/ПКН-У	<i>UknIndex</i> — номер устройства/платы
<i>UknBoardDown</i> 1.3.6.1.4.1.27142.1.12.16.2.1.2	Установлено устройство/плата УКН/ПКН/ПКН-У	
Напряжение		
<i>SupplyUPhaseTrap</i> 1.3.6.1.4.1.27142.1.12.1.2.1.4	Выслано значение напряжения	<i>SupplyUPhase</i> — значения напряжения
Температура		
<i>ClimateTempStat</i> 1.3.6.1.4.1.27142.1.12.3.2.1.5	Выслано значение температур.	<i>climateSensTemp</i> — значения температур всех датчиков.

Настройка отправки snmp-trap пакетов с помощью программы mskmon.



Здесь можно включить/отключить и настроить отправку аварий МСК по протоколу SNMP.

Для настройки мониторинга аварий МСК по протоколу SNMP выбираем вкладку **«Настройки работы SNMP»** (Рис.13). Там необходимо настроить следующие параметры:

1. IP адреса SNMP клиентов (менеджеров)
2. Нажать кнопку **«Применить»** или **«Отмена»**, если передумали задавать IP адреса SNMP клиентов (менеджеров)
3. Нажать кнопку **«Сохранить настройки всех устройств»** (Если не нажать, то настройки не сохранятся после перезагрузки)
4. По усмотрению оператора можно отключить ненужные виды аварий, нажав соответствующие кнопки и сменить вид аварий (SNMPINFORM(по умолчанию) — с гарантированной доставкой, SNMPTRAP — без гарантированной доставки)

5. Нажать кнопку **«Включить мониторинг аварий по SNMP»**

6. Нажать кнопку **«Сохранить настройки всех устройств»** еще раз !!! (чтобы сохранилось состояние самого мониторинга аварий по SNMP)

IP адреса клиентов(менеджеров) SNMP, изменяются и при «включенном мониторинге аварий по SNMP». После изменений IP адресов и последующего применения следует нажать кнопку **«Сохранить настройки всех устройств»**.