

**A Recommended Amendment to TS 3.3 - 1996  
of the Joint Committee on the NTCIP  
for Joint Adoption by AASHTO, ITE, and NEMA**

**NEMA Standards Publication TS 3.3-1996  
– Amendment 1**

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*National Transportation Communications for ITS Protocol  
(NTCIP)  
Class B Profile*

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## 1.2 References

- *Add the following paragraphs to the top of this clause:*  
For approved revisions, contact:

NTCIP Coordinator  
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For draft revisions, which are under discussion by the relevant NTCIP Working Group, and recommended revisions of the NTCIP Joint Committee, visit the World Wide Web at <http://www.ntcip.org>.

### 1.2.1 NORMATIVE REFERENCES

- *Modify the dates of the standards ISO/IEC Standards as follows:*

ISO/IEC 3309:~~1993~~1994, *Information Technology—Telecommunications and information exchange between systems—High-level Data Link Control (HDLC) procedures—Frame structure*

ISO/IEC 4335:~~1993~~1994, *Information Technology—Telecommunications and information exchange between systems—High-level Data Link Control (HDLC) procedures—Elements of procedures*

ISO/IEC 7498-4:~~1989~~1994, *Information Technology—Open Systems Interconnection—Basic reference model—Part 4: Management framework*

ISO/IEC 7809:~~1993~~1994, *Information Technology—Telecommunications and information exchange between systems—High-level Data Link Control (HDLC) procedures—Classes of procedures*

ISO/IEC 11575:1995, *Information Technology—Telecommunications and information exchange between systems—Protocol mapping for the OSI Data Link service*

- *Add the following reference to the end of clause 1.2.1.*

NEMA TS 3.4, *National Transportation Communications for ITS Protocol (NTCIP) Global Object Definitions*

## 1.5 ABBREVIATIONS AND ACRONYMS

- *Modify the PER acronym to read:*

PER — Packed Encoding Rules, a set of ASN.1 encoding rules defined in ISO 8825-2.

- *Add the following acronym to the list.*

OER —Octet Encoding Rules, a variation of BER developed for use on low bandwidth communications links.

## 4.2 PRESENTATION LAYER DEFINITION

- *Modify the second sentence of the paragraph to read:*

The syntax and semantics of information transfers shall be performed by BER or OER.

### 4.3.4 APPLICATION LAYER PROTOCOL

- *Modify the sentence to read:*

The Application Layer protocol of the Class B Profile shall consist of SNMP and, provisionally, STMP.

## B.2 CLASS B MIB DEFINITION

- *Change the first sentence to read:*

The following is the Class B Profile MIB. All devices supporting the Class B Profile shall support the objects and object identifiers referenced herein.

- *Modify the names of fourth group objects to read:*

lapbAdmnTable,  
lapbAdmnEntry,  
lapbAdmnIndex,  
lapbAdmnTransmitN1FrameSize,  
lapbAdmnReceiveN1FrameSize,  
lapbAdmnT1AckTimer,  
lapbAdmnT2AckDelayTimer,  
lapbAdmnT3DisconnectTimer,  
lapbAdmnT4IdleTimer,  
lapbOperPortId  
FROM RFC 1381-MIB

- *In the fifth group, change the twentieth entry from snmplnGenErrs to:*

snmpOutGenErrs,

- *Add the following as a sixth group between FROM RFC 1213-MIB and END on page 43:*

communityNameAdmin,  
communityNamesMax,  
communityNameTable,  
communityNameTableEntry,  
communityNameIndex,  
communityNameUser,  
communityNameAccessMask  
FROM TS 3.4 NTCIP Global Object Definitions

## B.3 MIB COMPLIANCE

- *In the OBJECTS clause under the NTCIPsnmpGroup OBJECT-GROUP definition, change the sixth line to include snmplnGenErrors as follows:*

snmplnGenErrors, snmplnGetRequests,

- After the *NTCIPsystemGroup* Definition OBJECT-GROUP definition, add a new group definition as follows:

```
NTCIPsecurityGroup  OBJECT-GROUP
  OBJECTS { communityNameAdmin, communityNamesMax,
            communityNameTable, communityNameTableEntry,
            communityNameIndex, communityNameUser,
            communityNameAccessMask }
  STATUS current
  DESCRIPTION
    "A collection of objects providing user access control."
  ::= { layers 7 }
```

- On page 45, add the security group to the *MANDATORY-GROUPS* in the *classBCompliances* definition as follows:

```
MANDATORY-GROUPS {NTCIPrs232Group,
                  NTCIPrs232AsyncGroup,
                  NTCIPhdlcGroup,
                  NTCIPtransGroup,
                  NTCIPsnmpGroup,
                  NTCIPsystemGroup,
                  NTCIPsecurityGroup }
```

#### **B.4 AGENT CAPABILITIES MIB**

- On page 45, add the security group to the *INCLUDES* in the *exampleAgent capabilities* definition as follows:

```
INCLUDES {NTCIPrs232Group,
          NTCIPrs232AsyncGrp,
          NTCIPhdlcGroup,
          NTCIPtransGroup,
          NTCIPsnmpGroup,
          NTCIPsystemGroup,
          NTCIPsecurityGroup }
```

□