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Intelligent transport systems — Communications access for land mobiles (CALM) — IPv6 Networking

AMENDMENT 1

Systèmes intelligents de transport — Accès aux communications des services mobiles terrestres (CALM) — Gestion de réseau IPv6

AMENDEMENT 1

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This document was prepared by Technical Committee ISO/TC 204, *Intelligent transport systems*.

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Annex A

Insert the following new normative annex before the Bibliography

Annex A
(normative)

ASN.1 modules

A.1 Overview

The following ASN.1 module is specified in this annex:

— ITSipv6 {iso(1) standard(0) its-ipv6(21210) asnm-1 (1)}

A.2 Module ITSipv6

This module specifies ASN.1 type definitions together with useful ASN.1 value definitions.

Unaligned packed encoding rules (PER) as specified in ISO/IEC 8825-2 shall be applied for this ASN.1 module.

In order to achieve octet alignment enabling cheap implementations, "fill" bits were defined. All fill bits shall be set to the value '0'b.

```
ITSipv6 {iso(1) standard(0) its-ipv6(21210) asnm-1 (1)}
DEFINITIONS AUTOMATIC TAGS::=BEGIN


IMPORTS
Link-ID, CIstatus, UserPriority FROM CALMllsap {iso(1) standard(0) calm-ll-sap(21218)
asnm-1 (1)}

IpAddressInfo FROM CALMfsap { iso (1) standard (0) calm-management (24102) fsap (5) asnm-1
(1)}

TransportAddressType, TransportAddress FROM TRANSPORT-ADDRESS-MIB;
- It needs to be checked whether this ASN.1 module is the correct one.

- End of IMPORTS

DeleteIPv6::=SEQUENCE{ -- used in 24102
       reference     IPtableRef
       }

DeleteNotIPv6::=SEQUENCE{ -- used in 24102
       reference     IPtableRef
       }

SetConfIPv6::=SEQUENCE{ -- used in 24102
       reference     IPtableRef
       }

IPtableRef::=INTEGER(0..65535)
```

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```
SetIPv6::=SEQUENCE{ - used in 24102
       reference     IPtableRef,
       remoteIP      IpAddressInfo,
       ciid          Link-ID,
       ciStatus      CIstatus,
       localIP       IpAddressInfo,
       priority      UserPriority,
       timeout       IPv6timeout
       }

SetNotIPv6::=SEQUENCE      -- used in 24102
{
reference     IPtableRef,
remoteIP      IpAddressInfo,
ciid          Link-ID,
ciStatus      CIstatus,
localIP       IpAddressInfo,
priority      UserPriority,
timeout       IPv6timeout
}

UpdateIPv6::=SEQUENCE{ -- used in 24102
       fill          [0] BIT STRING (SIZE(2)),
       reference     [1] INTEGER(0..65535),
       remoteIP      [2] IpAddressInfo OPTIONAL,
       ciid          [3] Link-ID OPTIONAL,
       ciStatus      [4] CIstatus OPTIONAL,
       localIP       [5] IpAddressInfo OPTIONAL,
       priority      [6] UserPriority OPTIONAL,
       timeout       [7] IPv6timeout OPTIONAL
       }

UpdateNotIPv6::=SEQUENCE{ -- used in 24102
       fill          [0] BIT STRING (SIZE(2)),
       reference     [1] INTEGER(0..65535),
       remoteIP      [2] IpAddressInfo OPTIONAL,
       ciid          [3] Link-ID OPTIONAL,
       ciStatus      [4] CIstatus OPTIONAL,
       localIP       [5] IpAddressInfo OPTIONAL,
       priority      [6] UserPriority OPTIONAL,
       timeout       [7] IPv6timeout OPTIONAL
       }

IPv6timeout::=INTEGER(0..65535)  -- Used in IPv6 forwarding tables; in ms

-- values

version INTEGER(0..255)::=1 -- Version of this ASN.1 module

END
```

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