

First edition  
2012-06-15

**AMENDMENT 1**  
2017-09

---

---

**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*

iTeh STANDARD PREVIEW  
(standards.iteh.ai)

AMENDEMENT 1

ISO 21210:2012/Amd 1:2017

<https://standards.iteh.ai/catalog/standards/sist/b4afe87d-4426-42dd-9ee4-9739881ce12b/iso-21210-2012-amd-1-2017>



Reference number  
ISO 21210:2012/Amd.1:2017(E)

© ISO 2017

**iTeh STANDARD PREVIEW**  
**(standards.iteh.ai)**

ISO 21210:2012/Amd 1:2017  
<https://standards.iteh.ai/catalog/standards/sist/b4afe87d-4426-42dd-9ee4-9739881ce12b/iso-21210-2012-amd-1-2017>



**COPYRIGHT PROTECTED DOCUMENT**

© ISO 2017, Published in Switzerland

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office  
Ch. de Blandonnet 8 • CP 401  
CH-1214 Vernier, Geneva, Switzerland  
Tel. +41 22 749 01 11  
Fax +41 22 749 09 47  
copyright@iso.org  
www.iso.org

## Foreword

ISO (the International Organization for Standardization) and IEC (the International Electrotechnical Commission) form the specialized system for worldwide standardization. National bodies that are members of ISO or IEC participate in the development of International Standards through technical committees established by the respective organization to deal with particular fields of technical activity. ISO and IEC technical committees collaborate in fields of mutual interest. Other international organizations, governmental and non-governmental, in liaison with ISO and IEC, also take part in the work. In the field of information technology, ISO and IEC have established a joint technical committee, ISO/IEC JTC 1.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see [www.iso.org/directives](http://www.iso.org/directives)).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see [www.iso.org/patents](http://www.iso.org/patents)).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see the following URL: [www.iso.org/iso/foreword.html](http://www.iso.org/iso/foreword.html).

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

<https://standards.iteh.ai/catalog/standards/sist/b4afe87d-4426-42dd-9ee4-9739881ce12b/iso-21210-2012-amd-1-2017>

**iTeh STANDARD PREVIEW**  
**(standards.iteh.ai)**

[ISO 21210:2012/Amd 1:2017](https://standards.iteh.ai/catalog/standards/sist/b4afe87d-4426-42dd-9ee4-9739881ce12b/iso-21210-2012-amd-1-2017)

<https://standards.iteh.ai/catalog/standards/sist/b4afe87d-4426-42dd-9ee4-9739881ce12b/iso-21210-2012-amd-1-2017>

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

## AMENDMENT 1

### 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      ITableRef
}
```

```
DeleteNotIPv6 ::= SEQUENCE { -- used in 24102
    reference      ITableRef
}
```

```
SetConfIPv6 ::= SEQUENCE { -- used in 24102
    reference      ITableRef
}
```

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

## ISO 21210:2012/Amd.1:2017(E)

```
SetIPv6 ::= SEQUENCE {
    reference      ITableRef,
    remoteIP      IpAddressInfo,
    ciid          Link-ID,
    ciStatus      CStatus,
    localIP       IpAddressInfo,
    priority      UserPriority,
    timeout       IPv6timeout
}

SetNotIPv6 ::= SEQUENCE -- used in 24102
{
    reference      ITableRef,
    remoteIP      IpAddressInfo,
    ciid          Link-ID,
    ciStatus      CStatus,
    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] CStatus 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] CStatus 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
```

ITeH STANDARD PREVIEW

(standards.iteh.ai)

ISO 21210:2012/Amd 1:2017

<https://standards.iteh.ai/catalog/standards/sist/b4afe87d-4426-42dd-9ec4-9957801e12b/iso-21210-2012-amd-1-2017>

9957801e12b/iso-21210-2012-amd-1-2017

**iTeh STANDARD PREVIEW**  
**(standards.iteh.ai)**

[ISO 21210:2012/Amd 1:2017](https://standards.iteh.ai/catalog/standards/sist/b4afe87d-4426-42dd-9ee4-9739881ce12b/iso-21210-2012-amd-1-2017)

<https://standards.iteh.ai/catalog/standards/sist/b4afe87d-4426-42dd-9ee4-9739881ce12b/iso-21210-2012-amd-1-2017>

**iTeh STANDARD PREVIEW**  
**(standards.iteh.ai)**

[ISO 21210:2012/Amd 1:2017](https://standards.iteh.ai/catalog/standards/sist/b4afe87d-4426-42dd-9ee4-9739881ce12b/iso-21210-2012-amd-1-2017)  
<https://standards.iteh.ai/catalog/standards/sist/b4afe87d-4426-42dd-9ee4-9739881ce12b/iso-21210-2012-amd-1-2017>