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**5G;  
Vehicle-to-Everything (V2X) services in 5G System (5GS);  
User Equipment (UE) policies;  
Stage 3  
(3GPP TS 24.588 version 18.1.0 Release 18)**



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**Keywords**

5G

**ETSI**

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# Modal verbs terminology

In the present document "**shall**", "**shall not**", "**should**", "**should not**", "**may**", "**need not**", "**will**", "**will not**", "**can**" and "**cannot**" are to be interpreted as described in clause 3.2 of the [ETSI Drafting Rules](#) (Verbal forms for the expression of provisions).

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# Foreword

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  - 1 presented to TSG for information;
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- y the second digit is incremented for all changes of substance, i.e. technical enhancements, corrections, updates, etc.
- z the third digit is incremented when editorial only changes have been incorporated in the document.

In the present document, certain modal verbs have the following meanings:

**shall** indicates a mandatory requirement to do something

**shall not** indicates an interdiction (prohibition) to do something

NOTE 1: The constructions "shall" and "shall not" are confined to the context of normative provisions, and do not appear in Technical Reports.

NOTE 2: The constructions "must" and "must not" are not used as substitutes for "shall" and "shall not". Their use is avoided insofar as possible, and they are not used in a normative context except in a direct citation from an external, referenced, non-3GPP document, or so as to maintain continuity of style when extending or modifying the provisions of such a referenced document.

**should** indicates a recommendation to do something

**should not** indicates a recommendation not to do something

**may** indicates permission to do something

**need not** indicates permission not to do something

NOTE 3: The construction "may not" is ambiguous and is not used in normative elements. The unambiguous constructions "might not" or "shall not" are used instead, depending upon the meaning intended.

**can** indicates that something is possible

**cannot** indicates that something is impossible

NOTE 4: The constructions "can" and "cannot" shall not to be used as substitutes for "may" and "need not".

**will** indicates that something is certain or expected to happen as a result of action taken by an agency the behaviour of which is outside the scope of the present document

**will not** indicates that something is certain or expected not to happen as a result of action taken by an agency the behaviour of which is outside the scope of the present document

**might** indicates a likelihood that something will happen as a result of action taken by some agency the behaviour of which is outside the scope of the present document

**might not** indicates a likelihood that something will not happen as a result of action taken by some agency the behaviour of which is outside the scope of the present document

In addition:

**is** (or any other verb in the indicative mood) indicates a statement of fact

**is not** (or any other negative verb in the indicative mood) indicates a statement of fact

NOTE 5: The constructions "is" and "is not" do not indicate requirements.

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# 1 Scope

The present document defines User Equipment (UE) policies that are used to configure the UE for Vehicle-to-Everything (V2X) services in 5G System (5GS) based on the architectural requirements defined in 3GPP TS 23.287 [2].

The protocol aspects for V2X services in 5G System (5GS) are described in 3GPP TS 24.587 [3].

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# 2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the same Release as the present document*.

- [1] 3GPP TR 21.905: "Vocabulary for 3GPP Specifications".
- [2] 3GPP TS 23.287: "Architecture enhancements for 5G System (5GS) to support Vehicle-to-Everything (V2X) services".
- [3] 3GPP TS 24.587: "Vehicle-to-Everything (V2X) services in 5G System (5GS); Stage 3".
- [4] 3GPP TS 24.501: "Non-Access-Stratum (NAS) protocol for 5G System (5GS); Stage 3".
- [5] ISO TS 17419 ITS-AID AssignedNumbers :  
[http://standards.iso.org/iso/ts/17419/TS17419%20Assigned%20Numbers/TS17419\\_ITS-AID\\_AssignedNumbers.pdf](http://standards.iso.org/iso/ts/17419/TS17419%20Assigned%20Numbers/TS17419_ITS-AID_AssignedNumbers.pdf)
- [6] ITU-T Recommendation E.212: "The international identification plan for public networks and subscriptions", 2016-09-23.
- [7] 3GPP TS 23.032: "Universal Geographical Area Description (GAD)".
- [8] IEEE 1609.3 2016: "IEEE Standard for Wireless Access in Vehicular Environments (WAVE) -- Networking Services".
- [9] ISO 29281-1 2013: "Intelligent transport systems -- Communication access for land mobiles (CALM) -- Non-IP networking -- Part 1: Fast networking & transport layer protocol (FNTP)".
- [10] ETSI EN 302 636-3 v1.2.1: "Intelligent Transport Systems (ITS); Vehicular Communications; GeoNetworking; Part 3: Network Architecture".
- [11] 3GPP TS 24.526: "UE policies for 5G System (5GS); Stage 3".
- [12] 3GPP TS 38.331: "NR; Radio Resource Control (RRC) protocol specification".
- [13] 3GPP TS 36.101: "Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) radio transmission and reception".
- [14] 3GPP TS 38.101-1: "NR; User Equipment (UE) radio transmission and reception; Part 1: Range 1 Standalone".
- [15] 3GPP TS 38.101-2: "NR; User Equipment (UE) radio transmission and reception; Part 2: Range 2 Standalone".
- [16] 3GPP TS 36.331: "Evolved Universal Terrestrial Radio Access (E-UTRA); Radio Resource Control (RRC) protocol specification".

- [17] 3GPP TS 23.003: "Numbering, addressing and identification".
- [18] 3GPP TS 24.008: "Mobile radio interface Layer 3 specification; Core network protocols; Stage 3".
- [19] 3GPP TS 24.502: "Access to the 3GPP 5G Core Network (5GCN) via non-3GPP access networks".

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## 3 Definitions of terms and abbreviations

### 3.1 Terms

For the purposes of the present document, the terms given in 3GPP TR 21.905 [1] and the following apply. A term defined in the present document takes precedence over the definition of the same term, if any, in 3GPP TR 21.905 [1].

**example:** text used to clarify abstract rules by applying them literally.

For the purposes of the present document, the following terms and definitions given in 3GPP TS 24.587 [3] apply:

**E-UTRA-PC5**

**NR-PC5**

**V2X service identifier**

### 3.2 Abbreviations

For the purposes of the present document, the abbreviations given in 3GPP TR 21.905 [1] and the following apply. An abbreviation defined in the present document takes precedence over the definition of the same abbreviation, if any, in 3GPP TR 21.905 [1].

FSA	Frequency Selection Area
MBS	Multicast/Broadcast Services
NID	Network Identifier
NR CGI	New Radio Cell Global Identity
SNPN	Stand-alone Non-Public Network
TMGI	Temporary Mobile Group Identity
V2X	Vehicle-to-Everything
V2XP	V2X Policy

---

## 4 Descriptions of UE policies for V2X

### 4.1 Overview

The V2XP in 5GS include:

- UE policies for V2X communication over PC5 (see clause 4.2); and
- UE policies for V2X communication over Uu (see clause 4.3).

The V2XP can be delivered from the PCF to the UE. The UE policy delivery procedure is specified in 3GPP TS 24.501 [4].

### 4.2 UE policies for V2X communication over PC5

The UE policies for V2X communication over PC5 are defined in clause 5.2.3 of 3GPP TS 24.587 [3].



NOTE: The generic description of the UE policies for V2X communication over PC5 are specified in 3GPP TS 23.287 [2].

### 4.3 UE policies for V2X communication over Uu

The UE policies for V2X communication over Uu are defined in clause 5.2.4 of 3GPP TS 24.587 [3].

NOTE: The generic description of the UE policies for V2X communication over Uu are specified in 3GPP TS 23.287 [2].

## 5 Encoding of UE policies for V2X

### 5.1 Overview

The UE policies for V2X are provided to the UE in a V2X policy (V2XP) UE policy part using the UE policy delivery service as specified in 3GPP TS 24.501 [4] annex D.

### 5.2 Encoding of V2X policy (V2XP) UE policy part

#### 5.2.1 General

The purpose of the V2XP is to indicate UE policies for V2X communication over PC5 and UE policies for V2X communication over Uu.

The V2XP is encoded as shown in figures 5.2.1.1 to 5.2.1.3 and table 5.2.1.1 according to the UE policy part top level format (see annex D of 3GPP TS 24.501 [4]).

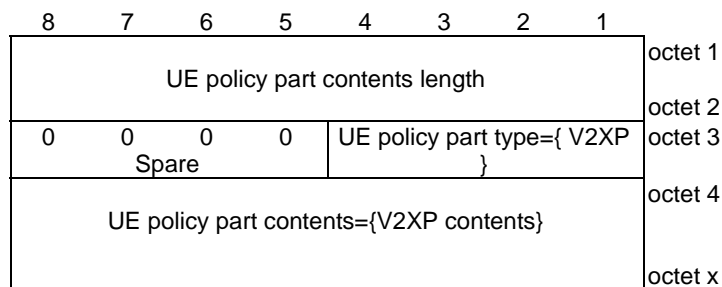


Figure 5.2.1.1: UE policy part when UE policy part type = {V2XP}

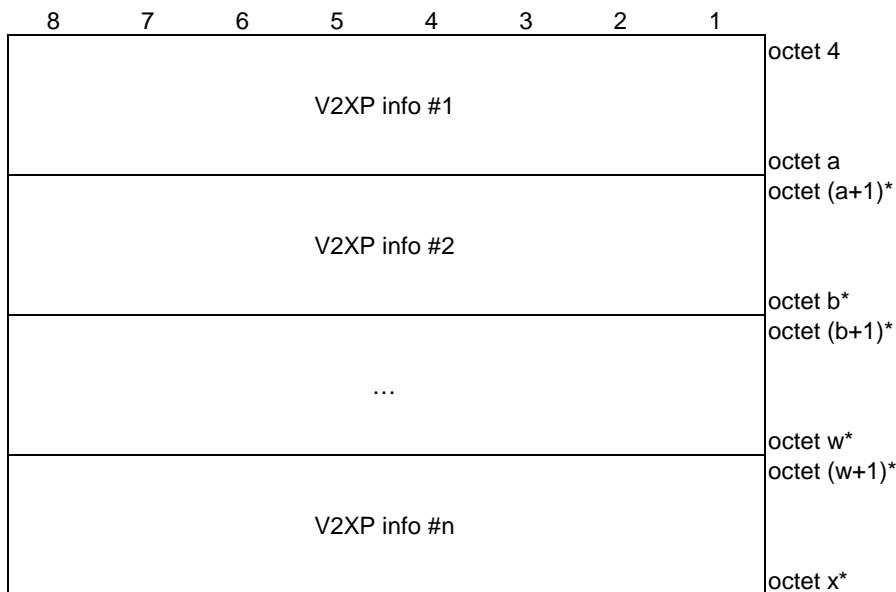


Figure 5.2.1.2: V2XP contents

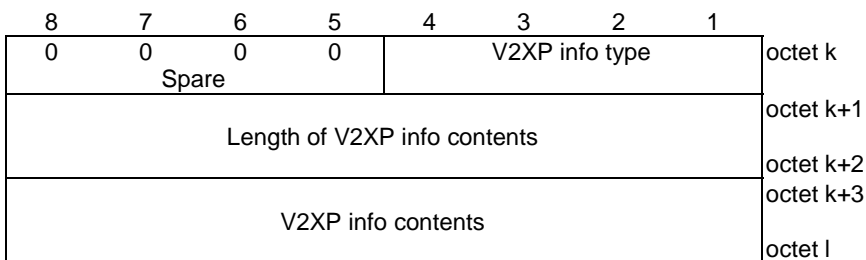


Figure 5.2.1.3: V2XP info

Table 5.2.1.1: V2XP information format

<p>UE policy part type field is set to '0011' (=V2XP) as specified in 3GPP TS 24.501 [4] annex D.</p> <p>UE policy part contents length field indicate the length of the V2XP contents in octets.</p> <p>V2XP contents (octets 4 to x)</p> <p>V2XP contents consist of 1 or more V2XP info(s) (see figure 5.2.1.2).</p> <p>V2XP info type (bit 1 to 4 of octet k) shall be set according to the following:</p> <p>Bits</p> <table border="1"> <tr> <td>4</td> <td>3</td> <td>2</td> <td>1</td> <td></td> </tr> <tr> <td>0</td> <td>0</td> <td>0</td> <td>1</td> <td>UE policies for V2X communication over PC5</td> </tr> <tr> <td>0</td> <td>0</td> <td>1</td> <td>0</td> <td>UE policies for V2X communication over Uu</td> </tr> </table> <p>All other values are reserved.</p> <p>Bits 8 to 5 of octet k are spare and shall be encoded as zero.</p> <p>Length of V2XP info contents (octets k+1 to k+2) indicates the length of the V2XP info contents field.</p> <p>V2XP info contents (octets k+3 to l) can be UE policies for V2X communication over PC5 (see clause 5.3.1) or UE policies for V2X communication over Uu (see clause 5.4.1).</p>	4	3	2	1		0	0	0	1	UE policies for V2X communication over PC5	0	0	1	0	UE policies for V2X communication over Uu
4	3	2	1												
0	0	0	1	UE policies for V2X communication over PC5											
0	0	1	0	UE policies for V2X communication over Uu											

### 5.3 Encoding of UE policies for V2X communication over PC5

#### 5.3.1 General

The UE policies for V2X communication over PC5 are coded as shown in figures 5.3.1.1 and table 5.3.1.1.

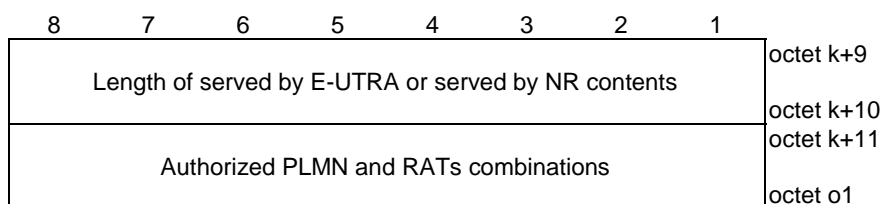
8	7	6	5	4	3	2	1	
0	0	0	0	V2XP info type = {UE policies for V2X communication over PC5}				octet k
Spare								octet k+1
Length of V2XP info contents								octet k+2
Validity timer								octet k+3
Validity timer								octet k+7
VSITP	0	0	0	0	0	0	0	octet k+8
MRI	Spare	Spare	Spare	Spare	Spare	Spare	Spare	octet k+9
Served by E-UTRA or served by NR								octet o1
Not served by E-UTRA and not served by NR								octet o1+1
V2X service identifier to PC5 RAT(s) and Tx profiles mapping rules								octet o2
V2X service identifier to PC5 RAT(s) and Tx profiles mapping rules								octet (o2+1)*
Privacy config								octet o3*
Privacy config								octet o124 (see NOTE)
V2X communication over PC5 in E-UTRA-PC5								octet o4
V2X communication over PC5 in E-UTRA-PC5								octet o4+1
V2X communication over PC5 in NR-PC5								octet o5
V2X communication over PC5 in NR-PC5								octet o5+1
V2X communication over PC5 in NR-PC5								octet l

NOTE: The field is placed immediately after the last present preceding field.

**Figure 5.3.1.1: V2XP Info = {UE policies for V2X communication over PC5}**

**Table 5.3.1.1: V2XP Info = {UE policies for V2X communication over PC5}**

<p>V2XP info type (bit 1 to 4 of octet k) shall be set to "0001" (UE policies for V2X communication over PC5)</p> <p>Length of Length of V2XP info contents (octets k+1 to k+2) indicates the length of V2XP info contents.</p> <p>Validity timer: The validity timer field provides the expiration time of validity of the UE policies for V2X communication over PC5. The validity timer field is a binary coded representation of a UTC time, in seconds since midnight UTC of January 1, 1970 (not counting leap seconds).</p> <p>V2X service identifier to PC5 RAT(s) and Tx profiles mapping rules indicator (VSITPMRI) The VSITPMRI bit indicates presence of the V2X service identifier to PC5 RAT(s) and Tx profiles mapping rules field.</p> <p>Bit <b>8</b> 0 V2X service identifier to PC5 RAT(s) and Tx profiles mapping rules field is absent 1 V2X service identifier to PC5 RAT(s) and Tx profiles mapping rules field is present</p> <p>Served by E-UTRA or served by NR: The served by E-UTRA or served by NR field is coded according to figure 5.3.1.2 and table 5.3.1.2, and contains configuration parameters for V2X communication over PC5 when the UE is served by E-UTRA or served by NR.</p> <p>Not served by E-UTRA and not served by NR: The not served by E-UTRA and not served by NR field is coded according to figure 5.3.1.6 and table 5.3.1.6, and contains configuration parameters for V2X communication over PC5 when the UE is not served by E-UTRA or NR.</p> <p>V2X service identifier to PC5 RAT(s) and Tx profiles mapping rules: The V2X service identifier to PC5 RAT(s) and Tx profiles mapping rules field is coded according to figure 5.3.1.12 and table 5.3.1.12, and contains a list of V2X service identifier to PC5 RAT(s) and Tx profiles mapping rules.</p> <p>Privacy config: The Privacy config field is coded according to figure 5.3.1.15 and table 5.3.1.15, and contains configuration parameters for privacy configuration.</p> <p>V2X communication over PC5 in E-UTRA-PC5: The V2X communication over PC5 in E-UTRA-PC5 field is coded according to figure 5.3.1.19 and table 5.3.1.19, and contains configuration parameters for V2X communication over PC5 in E-UTRA-PC5.</p> <p>V2X communication over PC5 in NR-PC5: The V2X communication over PC5 in NR-PC5 field is coded according to figure 5.3.1.31 and table 5.3.1.31, and contains configuration parameters for V2X communication over PC5 in NR-PC5.</p> <p>If the length of V2XP info contents field indicates a length bigger than indicated in figure 5.3.1.1, receiving entity shall ignore any superfluous octets located at the end of the V2XP info contents.</p>
---

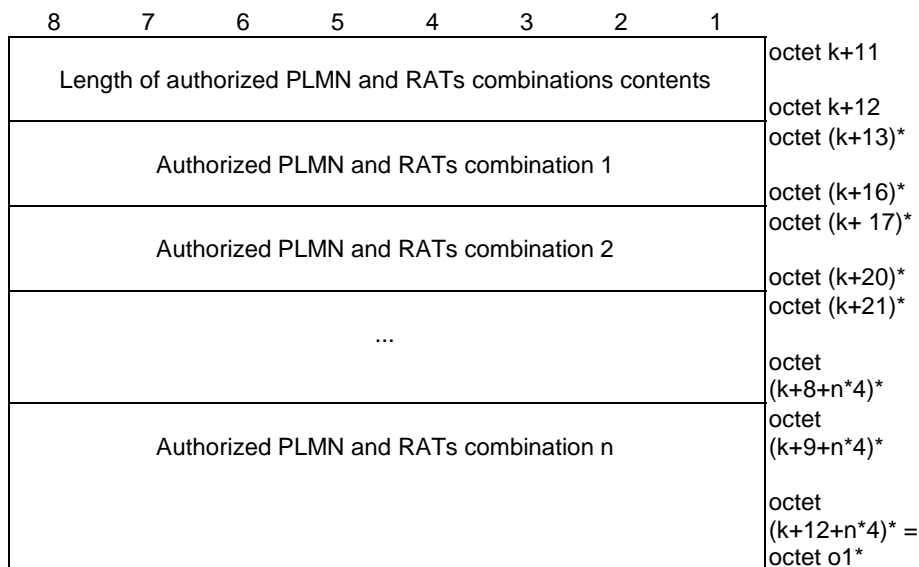


**Figure 5.3.1.2: Served by E-UTRA or served by NR**

**Table 5.3.1.2: Served by E-UTRA or served by NR**

Authorized PLMN and RATs combinations:  
 The authorized PLMN and RATs combinations field is coded according to figure 5.3.1.3 and table 5.3.1.3.

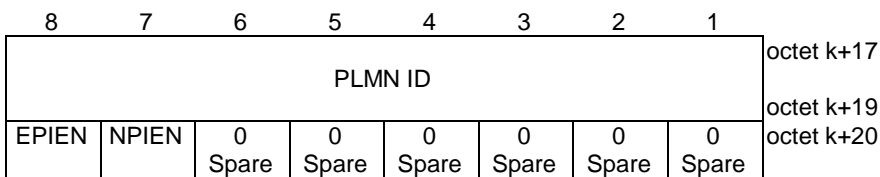
If the length of served by E-UTRA or served by NR contents field indicates a length bigger than indicated in figure 5.3.1.2, receiving entity shall ignore any superfluous octets located at the end of the served by E-UTRA or served by NR contents.



**Figure 5.3.1.3: Authorized PLMN and RATs combinations**

**Table 5.3.1.3: Authorized PLMN and RATs combinations**

Authorized PLMN and RATs combination:  
 The authorized PLMN and RATs combination field is coded according to figure 5.3.1.4 and table 5.3.1.4.



**Figure 5.3.1.4: Authorized PLMN and RATs combination**

**Table 5.3.1.4: Authorized PLMN and RATs combination**

<p>PLMN ID: The PLMN ID field is coded according to figure 5.3.1.5 and table 5.3.1.5.</p> <p>E-UTRA-PC5 indicator when served by E-UTRA or served by NR (EPIEN): The EPIEN bit indicates whether the UE is authorized to use V2X communication over E-UTRA-PC5 in the PLMN indicated by the PLMN ID field when served by E-UTRA or served by NR. Bit <b>8</b> 0 Not authorized 1 Authorized</p> <p>NR-PC5 indicator when served by E-UTRA or served by NR (NPIEN): The NPIEN bit indicates whether the UE is authorized to use V2X communication over NR-PC5 in the PLMN indicated by the PLMN ID field when served by E-UTRA or served by NR. Bit <b>7</b> 0 Not authorized 1 Authorized</p>
---

8	7	6	5	4	3	2	1	
MCC digit 2				MCC digit 1				octet k+17
MNC digit 3				MCC digit 3				octet k+18
MNC digit 2				MNC digit 1				octet k+19

**Figure 5.3.1.5: PLMN ID**

**Table 5.3.1.5: PLMN ID**

<p>Mobile country code (MCC): The MCC field is coded as in ITU-T Recommendation E.212 [6], annex A.</p> <p>Mobile network code (MNC): The coding of MNC field is the responsibility of each administration but BCD coding shall be used. The MNC shall consist of 2 or 3 digits. If a network operator decides to use only two digits in the MNC, MNC digit 3 shall be coded as "1111".</p>
---

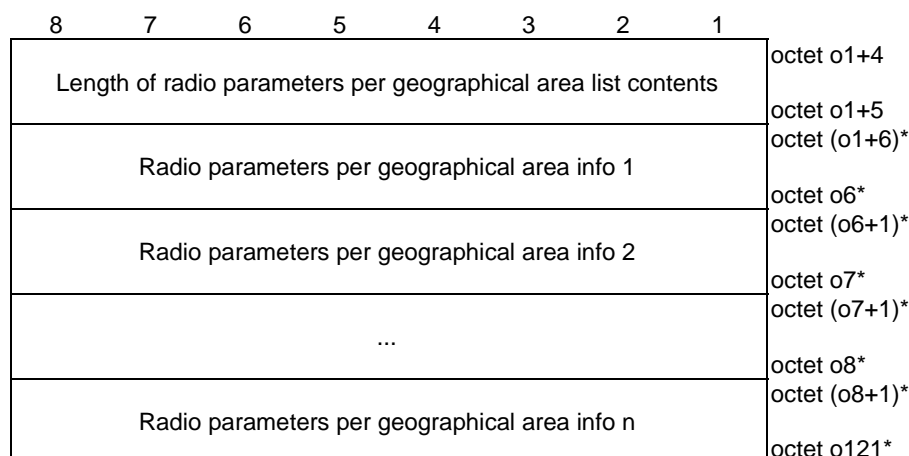
8	7	6	5	4	3	2	1	
Length of not served by E-UTRA and not served by NR contents								octet o1+1
Length of not served by E-UTRA and not served by NR contents								octet o1+2
EPIEN NN	NPINE NN	0 Spare	0 Spare	0 Spare	0 Spare	0 Spare	VPNEN NI	octet o1+3
E-UTRA radio parameters per geographical area list								octet (o1+4)*
NR radio parameters per geographical area list								octet o121* octet o122* (see NOTE)
NR radio parameters per geographical area list								octet o2*

NOTE: The field is placed immediately after the last present preceding field.

**Figure 5.3.1.6: Not served by E-UTRA and not served by NR**

**Table 5.3.1.6: Not served by E-UTRA and not served by NR**

<p>V2X communication over PC5 when not served by E-UTRA and not served by NR indicator (VPNENNI):                  The VPNENNI bit indicates whether the UE is authorized to use V2X communication over PC5 when not served by E-UTRA and not served by NR.                  Bit  <b>1</b>                  0 Not authorized                  1 Authorized</p> <p>E-UTRA-PC5 indicator when not served by E-UTRA and not served by NR (PEINENN):                  The EPINENN bit indicates whether the UE is authorized to use V2X communication over E-UTRA-PC5 when not served by E-UTRA and not served by NR.                  Bit  <b>8</b>                  0 Not authorized                  1 Authorized</p> <p>NR-PC5 indicator when not served by E-UTRA and not served by NR (NPINENN):                  The NPINENN bit indicates whether the UE is authorized to use V2X communication over NR-PC5 when not served by E-UTRA and not served by NR.                  Bit  <b>7</b>                  0 Not authorized                  1 Authorized</p> <p>E-UTRA radio parameters per geographical area list:                  If EPINENN bit is set to "Authorized", the E-UTRA radio parameters per geographical area list field is present otherwise the E-UTRA radio parameters per geographical area list field is absent. It is coded according to figure 5.3.1.7 and table 5.3.1.7.</p> <p>NR radio parameters per geographical area list:                  If NPINENN bit is set to "Authorized", the NR radio parameters per geographical area list field is present otherwise the NR radio parameters per geographical area list field is absent. It is coded according to figure 5.3.1.7 and table 5.3.1.7.</p> <p>If the length of not served by E-UTRA and not served by NR contents field indicates a length bigger than indicated in figure 5.3.1.6, receiving entity shall ignore any superfluous octets located at the end of the not served by E-UTRA and not served by NR contents.</p>
--



**Figure 5.3.1.7: Radio parameters per geographical area list**

**Table 5.3.1.7: Radio parameters per geographical area list**

Radio parameters per geographical area info:  
 The radio parameters per geographical area info field is coded according to figure 5.3.1.8 and table 5.3.1.8.

8	7	6	5	4	3	2	1	
Length of radio parameters per geographical area contents								octet o6+1
Geographical area								octet o6+2 octet o6+3
Radio parameters								octet o9 octet o9+1
MI	0	0	0	0	0	0	0	octet o7-1 octet o7
	Spare	Spare	Spare	Spare	Spare	Spare	Spare	

**Figure 5.3.1.8: Radio parameters per geographical area info**

**Table 5.3.1.8: Radio parameters per geographical area info**

**Geographical area:**  
 The geographical area field is coded according to figure 5.3.1.9 and table 5.3.1.9.

**Radio parameters:**  
 The radio parameters field is coded according to figure 5.3.1.11 and table 5.3.1.11, applicable in the geographical area indicated by the geographical area field when not served by E-UTRA and not served by NR.

**Managed indicator (MI):**  
 The Managed indicator indicates how the radio parameters indicated in the radio parameters field in the geographical area indicated by the geographical area field are managed.

Bit  
**8**  
 0 Non-operator managed  
 1 Operator managed

If the length of radio parameters per geographical area contents field indicates a length bigger than indicated in figure 5.3.1.8, receiving entity shall ignore any superfluous octets located at the end of the radio parameters per geographical area contents.

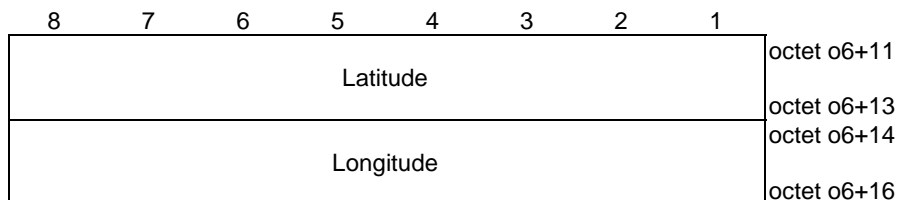
8	7	6	5	4	3	2	1	
Length of geographical area contents								octet o6+3 octet o6+4
Coordinate 1								octet (o6+5)* octet (o6+10)*
Coordinate 2								octet (o6+11)* octet (o6+16)*
...								octet (o6+17)*
Coordinate n								octet (o6-2+6*n)* octet (o6-1+6*n)*
								octet (o6+4+6*n)* = octet o9*

**Figure 5.3.1.9: Geographical area**



**Table 5.3.1.9: Geographical area**

Coordinate:  
The coordinate field is coded according to figure 5.3.1.10 and table 5.3.1.10.

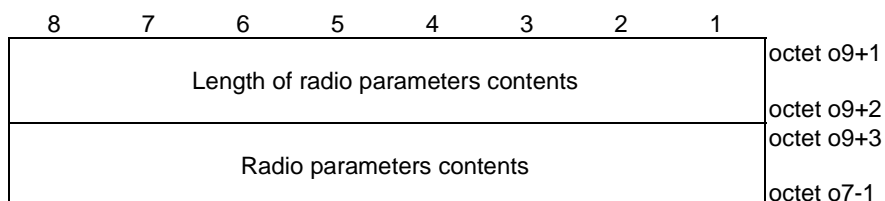


**Figure 5.3.1.10: Coordinate area**

**Table 5.3.1.10: Coordinate area**

Latitude:  
The latitude field is coded according to clause 6.1 of 3GPP TS 23.032 [7].

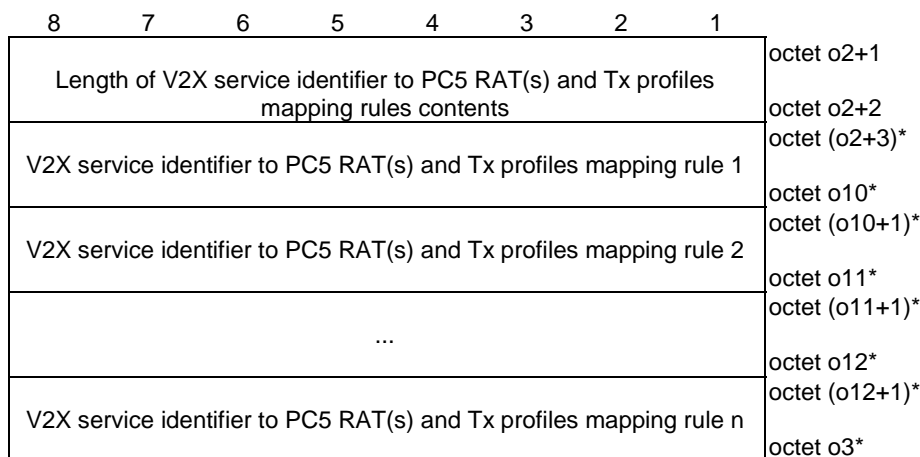
Longitude:  
The longitude field is coded according to clause 6.1 of 3GPP TS 23.032 [7].



**Figure 5.3.1.11: Radio parameters**

**Table 5.3.1.11: Radio parameters**

Radio parameters contents:  
In E-UTRA radio parameters per geographical area list, radio parameters are defined as *SL-V2X-Preconfiguration* in clause 9 of 3GPP TS 36.331 [16].  
In NR radio parameters per geographical area list, radio parameters are defined as *SL-PreconfigurationNR* in clause 9.3 of 3GPP TS 38.331 [12].



**Figure 5.3.1.12: V2X service identifier to PC5 RAT(s) and Tx profiles mapping rules**

**Table 5.3.1.12: V2X service identifier to PC5 RAT(s) and Tx profiles mapping rules**

V2X service identifier to PC5 RAT(s) and Tx profiles mapping rule:  
 The V2X service identifier to PC5 RAT(s) and Tx profiles mapping rule field is coded according to figure 5.3.1.13 and table 5.3.1.13.

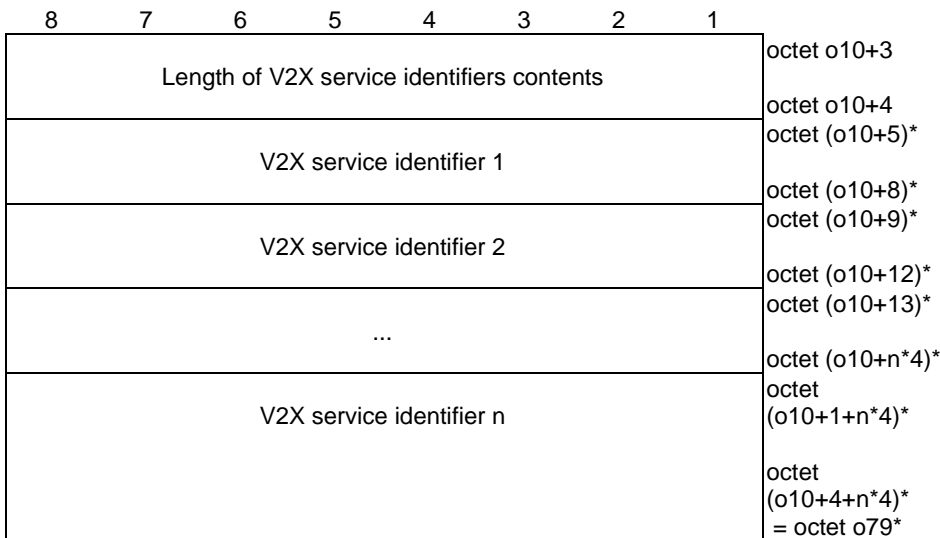
	8	7	6	5	4	3	2	1	
Length of V2X service identifier to PC5 RAT(s) and Tx profiles mapping rule contents									octet o10+1
V2X service identifiers									octet o10+2 octet o10+3
0 Spare	0 Spare	0 Spare	0 Spare	UINTI	BGNTI	PC5 RAT(s)			octet o79 octet o79+1
Length of E-UTRA-PC5 Tx profiles									octet (o79+2)*
E-UTRA-PC5 Tx profiles									octet (o79+3)*
Broadcast and groupcast mode NR-PC5 Tx profile									octet o82* octet o113* (see NOTE)
Unicast mode initial signalling NR-PC5 Tx profile									octet o114* = o11* (see NOTE)

NOTE: The field is placed immediately after the last present preceding field.

**Figure 5.3.1.13: V2X service identifier to PC5 RAT(s) and Tx profiles mapping rule**

**Table 5.3.1.13: V2X service identifier to PC5 RAT(s) and Tx profiles mapping rule**

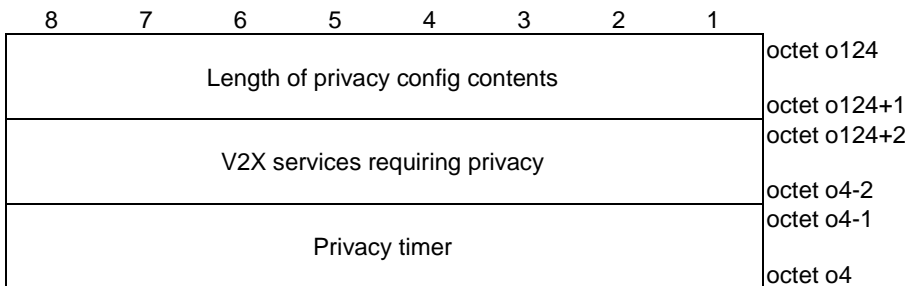
<p>V2X service identifiers: The V2X service identifiers field is coded according to figure 5.3.1.14 and table 5.3.1.14.</p> <p>Unicast mode initial signalling NR-PC5 Tx profile indicator (UINTI) The UINTI bit indicates presence of the unicast mode NR-PC5 Tx profile field. Bit <b>4</b> 0 unicast mode initial signalling NR-PC5 Tx profile field is absent 1 unicast mode initial signalling NR-PC5 Tx profile field is present</p> <p>Broadcast and groupcast mode NR-PC5 Tx profile indicator (BGNTI) The BGNTI bit indicates presence of the broadcast and groupcast mode NR-PC5 Tx profile field. Bit <b>3</b> 0 broadcast and groupcast mode NR-PC5 Tx profile field is absent 1 broadcast and groupcast mode NR-PC5 Tx profile field is present</p> <p>If the PC5 RAT field is set to "E-UTRA-PC5", then the BGNTI bit is set to "broadcast and groupcast mode NR-PC5 Tx profile field is absent" and the UINTI bit is set to "unicast mode initial signalling NR-PC5 Tx profile field is absent". If the PC5 RAT field is set to "NR-PC5" or "Both E-UTRA-PC5 and NR-PC5", then the BGNTI bit can be set to "broadcast and groupcast mode NR-PC5 Tx profile field is absent" or "broadcast and groupcast mode NR-PC5 Tx profile field is present", and the UINTI bit can be set to "unicast mode initial signalling NR-PC5 Tx profile field is absent" or "unicast mode initial signalling NR-PC5 Tx profile field is present".</p> <p>PC5 RAT(s): The PC5 RAT(s) field indicates the PC5 RAT(s) mapped to the V2X service identifiers. <b>Bits</b> 2 1 0 0 E-UTRA-PC5 0 1 NR-PC5 1 0 Both E-UTRA-PC5 and NR-PC5 All other values are spare.</p> <p>If the PC5 RAT field is set to "E-UTRA-PC5" or "Both E-UTRA-PC5 and NR-PC5", the length of E-UTRA-PC5 Tx profiles field and the E-UTRA-PC5 Tx profiles field are present otherwise the length of E-UTRA-PC5 Tx profiles field and the E-UTRA-PC5 Tx profiles field are absent. If the PC5 RAT field is set to a spare value, the receiving entity shall ignore the V2X service identifier to PC5 RAT(s) and Tx profiles mapping rule.</p> <p>E-UTRA-PC5 Tx profiles: The E-UTRA-PC5 Tx profiles field is coded as <i>v2x-TxProfileList</i> in clause 9.3.2 of 3GPP TS 36.331 [16].</p> <p>Broadcast and groupcast mode NR-PC5 Tx profile field: The broadcast and groupcast mode NR-PC5 Tx profile field indicates NR Tx profile corresponding to the NR-PC5 for broadcast mode V2X communication over PC5 and groupcast mode V2X communication over PC5. The broadcast and groupcast mode NR-PC5 Tx profile field is coded as <i>SL-TxProfile-r17</i> in clause 9.3 of 3GPP TS 38.331 [12].</p> <p>Unicast mode initial signalling NR-PC5 Tx profile field: The unicast mode initial signalling NR-PC5 Tx profile field indicates NR Tx profile corresponding to transmitting and receiving initial signalling of the PC5 unicast link establishment. The unicast mode initial signalling NR-PC5 Tx profile field is coded as <i>SL-TxProfile-r17</i> in clause 9.3 of 3GPP TS 38.331 [12].</p> <p>If the length of V2X service identifier to PC5 RAT(s) and Tx profiles mapping rule contents field indicates a length bigger than indicated in figure 5.3.1.13, receiving entity shall ignore any superfluous octets located at the end of the V2X service identifier to PC5 RAT(s) and Tx profiles mapping rule contents.</p>
---



**Figure 5.3.1.14: V2X service identifiers**

**Table 5.3.1.14: V2X service identifiers**

V2X service identifier:  
 The V2X service identifier field contains a binary coded V2X service identifier as specified in ISO TS 17419 ITS-AID AssignedNumbers [5].



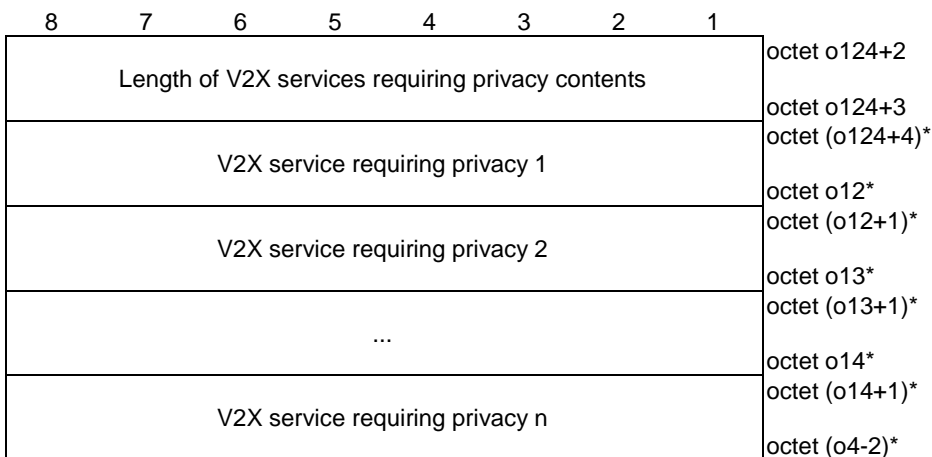
**Figure 5.3.1.15: Privacy config**

**Table 5.3.1.15: Privacy config**

V2X services requiring privacy:  
 The V2X services requiring privacy field is coded according to figure 5.3.1.16 and table 5.3.1.16.

Privacy timer:  
 The privacy timer field contains binary encoded duration, in units of seconds, after which the UE shall change the source Layer-2 ID self-assigned by the UE while performing transmission of V2X communication over the PC5 when privacy is required.

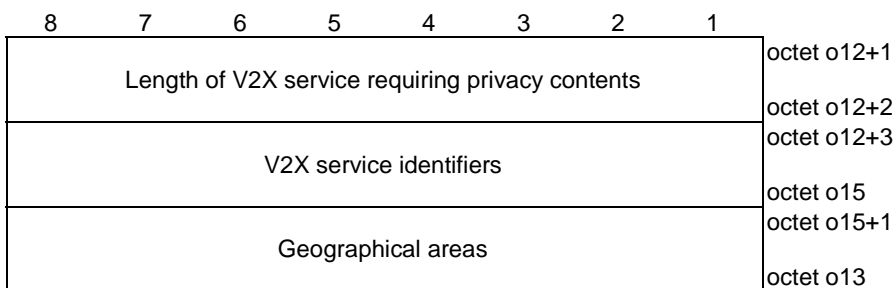
If the length of privacy config contents field indicates a length bigger than indicated in figure 5.3.1.15, receiving entity shall ignore any superfluous octets located at the end of the privacy config contents.



**Figure 5.3.1.16: V2X services requiring privacy**

**Table 5.3.1.16: V2X services requiring privacy**

V2X service requiring privacy:  
 The V2X service requiring privacy field is coded according to figure 5.3.1.17 and table 5.3.1.17.



**Figure 5.3.1.17: V2X service requiring privacy**

**Table 5.3.1.17: V2X service requiring privacy**

V2X service identifiers:  
 The V2X service identifiers field is coded according to figure 5.3.1.14 and table 5.3.1.14.

Geographical areas:  
 The geographical areas field is coded according to figure 5.3.1.18 and table 5.3.1.18.

If the length of V2X service requiring privacy contents field indicates a length bigger than indicated in figure 5.3.1.17, receiving entity shall ignore any superfluous octets located at the end of the V2X service requiring privacy contents.

8	7	6	5	4	3	2	1	
Length of geographical areas contents								octet o15+1
Geographical area 1								octet o15+2 octet (o15+3)*
Geographical area 2								octet o23* octet (o23+1)*
...								octet o24* octet (o24+1)*
Geographical area n								octet o25* octet (o25+1)* octet o13*

**Figure 5.3.1.18: Geographical areas**

**Table 5.3.1.18: Geographical areas**

Geographical area:  
The geographical area field is coded according to figure 5.3.1.9 and table 5.3.1.9.

8	7	6	5	4	3	2	1	
Length of V2X communication over PC5 in E-UTRA-PC5 contents								octet o4+1
DDL2II								octet o4+2
VSIEF MRI		VSAPI		PPMR		0 Spare		octet o4+3
V2X service identifier to destination layer-2 ID mapping rules								octet o4+4
PPPP to PDB mapping rules								octet o26 octet (o26+1)*
V2X service identifier to V2X E-UTRA frequency mapping rules								octet o27* octet o120* (see NOTE)
V2X services authorized for PPPR								octet o28* octet o106* (see NOTE)
Default destination layer-2 ID								octet o29* octet o107* (see NOTE)
								octet (o107+2)* = octet o5*

NOTE: The field is placed immediately after the last present preceding field.

**Figure 5.3.1.19: V2X communication over PC5 in E-UTRA-PC5**

**Table 5.3.1.19: V2X communication over PC5 in E-UTRA-PC5**

<p>Default destination layer-2 ID indicator (DDL2II): The DDL2II bit indicates presence of the default destination layer-2 ID field.</p> <p>Bit <b>8</b></p> <p>0 Default destination layer-2 ID field is absent 1 Default destination layer-2 ID field is present</p> <p>V2X service identifier to V2X E-UTRA frequency mapping rules indicator (VSIEFMRI): The VSIEFMRI bit indicates presence of the V2X service identifier to V2X E-UTRA frequency mapping rules field.</p> <p>Bit <b>7</b></p> <p>0 V2X service identifier to V2X E-UTRA frequency mapping rules field is absent 1 V2X service identifier to V2X E-UTRA frequency mapping rules field is present</p> <p>V2X services authorized for PPPR indicator (VSAPI): The VSAPI bit indicates presence of the V2X services authorized for PPPR field.</p> <p>Bit <b>6</b></p> <p>0 V2X services authorized for PPPR field is absent 1 V2X services authorized for PPPR field is present</p> <p>PPPP to PDB mapping rules indicator (PPMRI): The PPMRI bit indicates presence of the PPPP to PDB mapping rules field.</p> <p>Bit <b>5</b></p> <p>0 PPPP to PDB mapping rules field is absent 1 PPPP to PDB mapping rules field is present</p> <p>V2X service identifier to destination layer-2 ID mapping rules: The V2X service identifier to destination layer-2 ID mapping rules field is coded according to figure 5.3.1.20 and table 5.3.1.20.</p> <p>PPPP to PDB mapping rules: The PPPP to PDB mapping rules field is coded according to figure 5.3.1.22 and table 5.3.1.22.</p> <p>V2X service identifier to V2X E-UTRA frequency mapping rules: The V2X service identifier to V2X E-UTRA frequency mapping rules field is coded according to figure 5.3.1.24 and table 5.3.1.24.</p> <p>V2X services authorized for PPPR: The V2X services authorized for PPPR field is coded according to figure 5.3.1.29 and table 5.3.1.29.</p> <p>Default destination layer-2 ID: The default destination layer-2 ID field is a binary coded layer 2 identifier.</p> <p>If the length of V2X communication over PC5 in E-UTRA-PC5 contents field indicates a length bigger than indicated in figure 5.3.1.19, receiving entity shall ignore any superfluous octets located at the end of the V2X communication over PC5 in E-UTRA-PC5contents.</p>
---

8      7      6      5      4      3      2      1		
Length of V2X service identifier to destination layer-2 ID mapping rules contents		octet o4+4
V2X service identifier to destination layer-2 ID mapping rule 1		octet o4+5 octet (o4+6)*
V2X service identifier to destination layer-2 ID mapping rule 2		octet o19* octet (o19+1)*
...		octet o20* octet (o20+1)*
V2X service identifier to destination layer-2 ID mapping rule n		octet o21* octet (o21+1)* octet o26*

**Figure 5.3.1.20: V2X service identifier to destination layer-2 ID mapping rules**

**Table 5.3.1.20: V2X service identifier to destination layer-2 ID mapping rules**

V2X service identifier to destination layer-2 ID mapping rule:  
The V2X service identifier to destination layer-2 ID mapping rule field is coded according to figure 5.3.1.21 and table 5.3.1.21.

8      7      6      5      4      3      2      1		
Length of V2X service identifier to destination layer-2 ID mapping rule contents		octet o19+1
V2X service identifiers		octet o19+2 octet o19+3
Destination layer-2 ID		octet o22 octet o22+1 octet (o22+3) = octet o20

**Figure 5.3.1.21: V2X service identifier to destination layer-2 ID mapping rule**

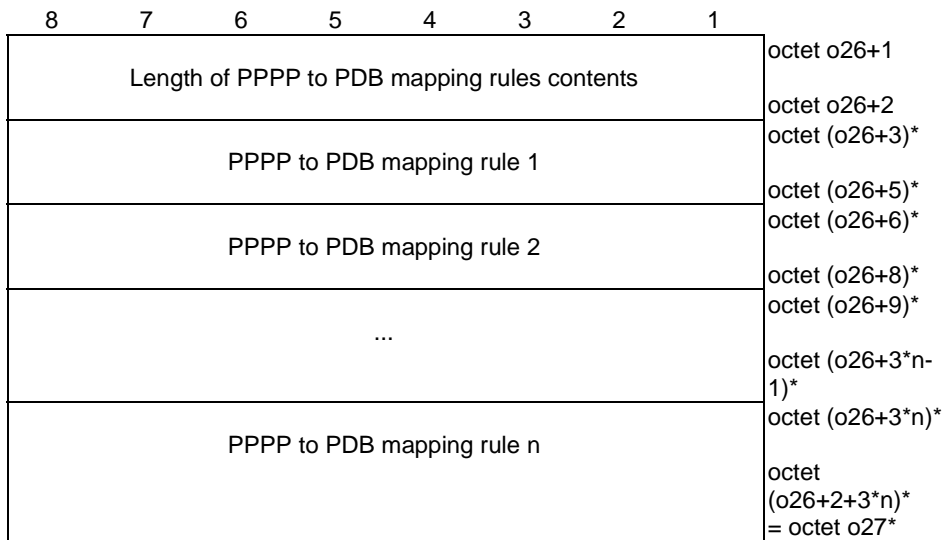
**Table 5.3.1.21: V2X service identifier to destination layer-2 ID mapping rule**

V2X service identifiers:  
The V2X service identifiers field is coded according to figure 5.3.1.14 and table 5.3.1.14.

Destination layer-2 ID:  
The destination layer-2 ID field is a binary coded layer 2 identifier.

If the length of V2X service identifier to destination layer-2 ID mapping rule contents field indicates a length bigger than indicated in figure 5.3.1.21, receiving entity shall ignore any superfluous octets located at the end of the V2X service identifier to destination layer-2 ID mapping rule contents.

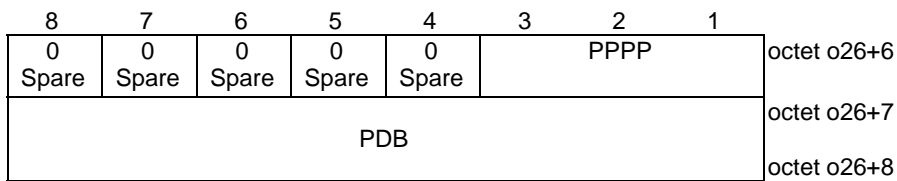




**Figure 5.3.1.22: PPPP to PDB mapping rules**

**Table 5.3.1.22: PPPP to PDB mapping rules**

PPPP to PDB mapping rule:  
The PPPP to PDB mapping rule field is coded according to figure 5.3.1.23 and table 5.3.1.23.



**Figure 5.3.1.23: PPPP to PDB mapping rule**

**Table 5.3.1.23: PPPP to PDB mapping rule**

ProSe per-packet priority (PPPP):  
The PPPP field is a ProSe per-packet priority value.  
Bits  
**3 2 1**  
0 0 0 PPPP value 1  
0 0 1 PPPP value 2  
0 1 0 PPPP value 3  
0 1 1 PPPP value 4  
1 0 0 PPPP value 5  
1 0 1 PPPP value 6  
1 1 0 PPPP value 7  
1 1 1 PPPP value 8

Packet delay budget (PDB):  
The PDB field indicates binary encoded the packet delay budget value in milliseconds to which the ProSe per-packet priority value indicated by the PPPP field is mapped.

8	7	6	5	4	3	2	1	
Length of V2X service identifier to V2X E-UTRA frequency mapping rules contents								octet o120*
V2X service identifier to V2X E-UTRA frequency mapping rule 1								octet (o120+2)* octet (o120+3)*
V2X service identifier to V2X E-UTRA frequency mapping rule 2								octet o33* octet (o33+1)*
...								octet o34* octet (o34+1)*
V2X service identifier to V2X E-UTRA frequency mapping rule n								octet o35* octet (o35+1)*
								octet o28*

**Figure 5.3.1.24: V2X service identifier to V2X E-UTRA frequency mapping rules**

**Table 5.3.1.24: V2X service identifier to V2X E-UTRA frequency mapping rules**

V2X service identifier to V2X E-UTRA frequency mapping rule:  
 The V2X service identifier to V2X E-UTRA frequency mapping rule is coded according to figure 5.3.1.25 and table 5.3.1.25.

8	7	6	5	4	3	2	1	
Length of V2X service identifier to V2X E-UTRA frequency mapping rule contents								octet o33+1
V2X service identifiers								octet o33+2 octet o33+3
V2X E-UTRA frequencies with geographical areas list								octet o39 octet o39+1
								octet o34

**Figure 5.3.1.25: V2X service identifier to V2X E-UTRA frequency mapping rule**

**Table 5.3.1.25: V2X service identifier to V2X E-UTRA frequency mapping rule**

V2X service identifiers:  
 The V2X service identifiers field is coded according to figure 5.3.1.14 and table 5.3.1.14.

V2X E-UTRA frequencies with geographical areas list:  
 The V2X E-UTRA frequencies with geographical areas list field is coded according to figure 5.3.1.26 and table 5.3.1.26.

If the length of V2X service identifier to V2X E-UTRA frequency mapping rule contents field indicates a length bigger than indicated in figure 5.3.1.25, receiving entity shall ignore any superfluous octets located at the end of the V2X service identifier to V2X E-UTRA frequency mapping rule contents.

8	7	6	5	4	3	2	1	
Length of V2X E-UTRA frequencies with geographical areas list contents								octet o39+1
V2X E-UTRA frequencies with geographical areas info 1								octet o39+2 octet (o39+3)*
V2X E-UTRA frequencies with geographical areas info 2								octet o40* octet (o40+1)*
...								octet o41* octet (o41+1)*
V2X E-UTRA frequencies with geographical areas info n								octet o42* octet (o42+1)* octet o34*

**Figure 5.3.1.26: V2X E-UTRA frequencies with geographical areas list**

**Table 5.3.1.26: V2X E-UTRA frequencies with geographical areas list**

V2X E-UTRA frequencies with geographical areas info:  
 The V2X E-UTRA frequencies with geographical areas info field is coded according to figure 5.3.1.27 and table 5.3.1.27.

8	7	6	5	4	3	2	1	
Length of V2X E-UTRA frequencies with geographical areas info contents								octet o40+1 octet o40+2 octet o40+3
V2X E-UTRA frequencies								octet o43 octet o43+1
Geographical areas								octet o41

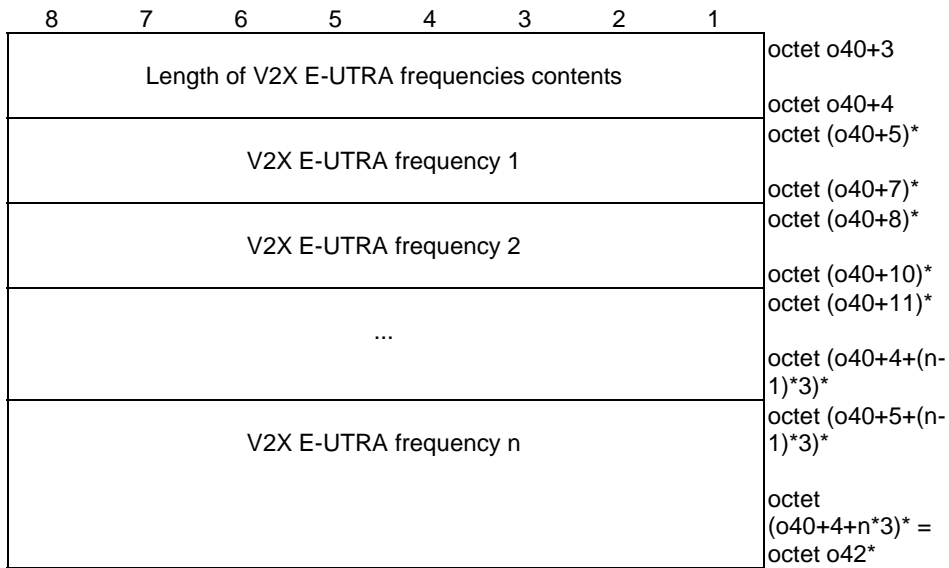
**Figure 5.3.1.27: V2X E-UTRA frequencies with geographical areas info**

**Table 5.3.1.27: V2X E-UTRA frequencies with geographical areas info**

V2X E-UTRA frequencies:  
 The V2X E-UTRA frequencies field is coded according to figure 5.3.1.28 and table 5.3.1.28.

Geographical areas:  
 The geographical areas field is coded according to figure 5.3.1.18 and table 5.3.1.18.

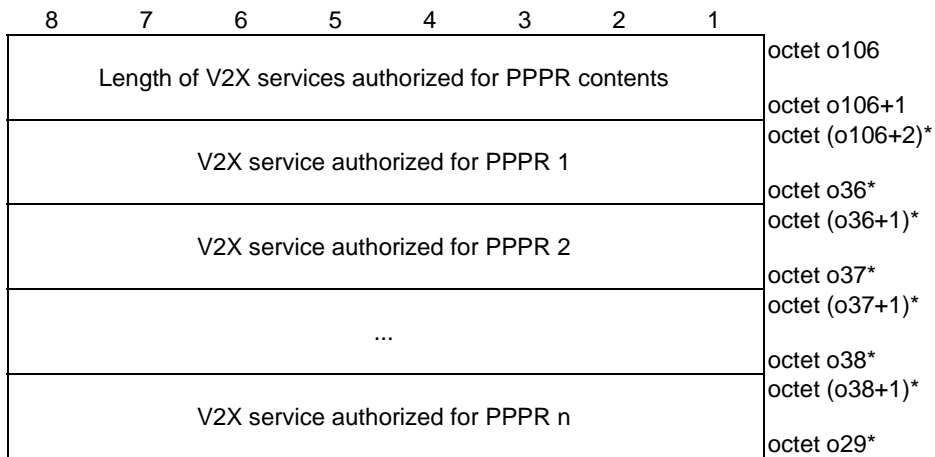
If the length of V2X E-UTRA frequencies with geographical areas info contents field indicates a length bigger than indicated in figure 5.3.1.27, receiving entity shall ignore any superfluous octets located at the end of the V2X E-UTRA frequencies with geographical areas info contents.



**Figure 5.3.1.28: V2X E-UTRA frequencies**

**Table 5.3.1.28: V2X E-UTRA frequencies**

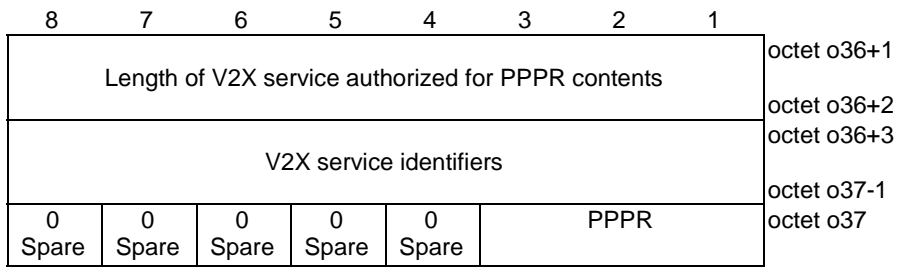
V2X E-UTRA frequency:  
V2X E-UTRA frequency is coded according to the EARFCN value defined in 3GPP TS 36.101 [13].



**Figure 5.3.1.29: V2X services authorized for PPPR**

**Table 5.3.1.29: V2X services authorized for PPPR**

V2X service authorized for PPPR:  
The V2X services authorized for PPPR field is coded according to figure 5.3.1.30 and table 5.3.1.30.



**Figure 5.3.1.30: V2X service authorized for PPPR**

**Table 5.3.1.30: V2X service authorized for PPPR**

<p>V2X service identifiers: The V2X service identifiers field is coded according to figure 5.3.1.14 and table 5.3.1.14.</p> <p>ProSe per-packet reliability (PPPR): The PPPR field is a ProSe per-packet reliability value.</p> <p>Bits</p> <p><b>3 2 1</b></p> <p>0 0 0 PPPR value 1              0 0 1 PPPR value 2              0 1 0 PPPR value 3              0 1 1 PPPR value 4              1 0 0 PPPR value 5              1 0 1 PPPR value 6              1 1 0 PPPR value 7              1 1 1 PPPR value 8</p> <p>If the length of V2X service authorized for PPPR contents field indicates a length bigger than indicated in figure 5.3.1.30, receiving entity shall ignore any superfluous octets located at the end of the V2X service authorized for PPPR contents.</p>
--

8	7	6	5	4	3	2	1	
Length of V2X communication over PC5 in NR-PC5 contents								octet o5+1
Length of V2X communication over PC5 in NR-PC5 contents								octet o5+2
DDL2I BI	VSINF MRI	PDBGI	0 Spare	0 Spare	0 Spare	0 Spare	0 Spare	octet o5+3
V2X service identifier to V2X NR frequency mapping rules								octet (o5+4)*
V2X service identifier to destination layer-2 ID for broadcast mapping rules								octet o45* octet o108 (see NOTE)
V2X service identifier to destination layer-2 ID for groupcast mapping rules								octet o46 octet o46+1
V2X service identifier to destination layer-2 ID for unicast initial signalling mapping rules								octet o47 octet o47+1
V2X service identifier to PC5 QoS parameters mapping rules								octet o48 octet o48+1
AS configuration								octet o49 octet o49+1
Default destination layer-2 ID for broadcast								octet o50 octet (o50+1)*
NR-PC5 unicast security policies								octet (o50+3)* octet o93 (see NOTE)
V2X service identifier to default mode of communication mapping rules								octet o84 octet (o84+1)
PC5 DRX configuration for broadcast, groupcast and unicast initial signalling								octet o85 octet (o85+1)*
PC5 DRX configuration for broadcast, groupcast and unicast initial signalling								octet o123* = octet l

NOTE: The field is placed immediately after the last present preceding field.

**Figure 5.3.1.31: V2X communication over PC5 in NR-PC5**

**Table 5.3.1.31: V2X communication over PC5 in NR-PC5**

<p>Default destination layer-2 ID for broadcast indicator (DDL2IBI): The DDL2IBI bit indicates presence of the default destination layer-2 ID for broadcast field.</p> <p>Bit <b>8</b></p> <p>0 Default destination layer-2 ID for broadcast field is absent 1 Default destination layer-2 ID for broadcast field is present</p> <p>V2X service identifier to V2X NR frequency mapping rules indicator (VSINFMRI): The VSINFMRI bit indicates presence of the V2X service identifier to V2X NR frequency mapping rules field.</p> <p>Bit <b>7</b></p> <p>0 V2X service identifier to V2X NR frequency mapping rules field is absent 1 V2X service identifier to V2X NR frequency mapping rules field is present</p> <p>PC5 DRX configuration for broadcast, groupcast and unicast initial signalling indicator (PDBGI): The PDBGI bit indicates presence of the PC5 DRX configuration for broadcast groupcast and unicast initial signalling field.</p> <p>Bit <b>6</b></p> <p>0 PC5 DRX configuration for broadcast, groupcast and unicast initial signalling field is absent 1 PC5 DRX configuration for broadcast, groupcast and unicast initial signalling field is present</p> <p>V2X service identifier to V2X NR frequency mapping rules: The V2X service identifier to V2X NR frequency mapping rules field is coded according to figure 5.3.1.32 and table 5.3.1.32.</p> <p>V2X service identifier to destination layer-2 ID for broadcast mapping rules: The V2X service identifier to destination layer-2 ID for broadcast mapping rules field is coded according to figure 5.3.1.37 and table 5.3.1.37.</p> <p>V2X service identifier to destination layer-2 ID for groupcast mapping rules: The V2X service identifier to destination layer-2 ID for groupcast mapping rules field is coded according to figure 5.3.1.39 and table 5.3.1.39.</p> <p>V2X service identifier to destination layer-2 ID for unicast initial signalling mapping rules: The V2X service identifier to destination layer-2 ID for unicast initial signalling mapping rules field is coded according to figure 5.3.1.41 and table 5.3.1.41.</p> <p>V2X service identifier to PC5 QoS parameters mapping rules: The V2X service identifier to PC5 QoS parameters mapping rules field is coded according to figure 5.3.1.43 and table 5.3.1.43.</p> <p>AS configuration: The AS configuration field is coded according to figure 5.3.1.46a and table 5.3.1.46a.</p> <p>Default destination layer-2 ID for broadcast: The default destination layer-2 ID for broadcast field is a binary coded layer 2 identifier.</p> <p>NR-PC5 unicast security policies: The NR-PC5 unicast security policies field is coded according to figure 5.3.1.50 and table 5.3.1.50.</p> <p>V2X service identifier to default mode of communication mapping rules: The V2X service identifier to default mode of communication mapping rules is coded according to figure 5.3.1.53 and table 5.3.1.53.</p> <p>PC5 DRX configuration for broadcast, groupcast and unicast initial signalling. The PC5 DRX configuration for broadcast, groupcast and unicast initial signalling field indicates the PC5 DRX configuration for broadcast, groupcast and unicast initial signalling when not served by E-UTRA and not served by NR, and is coded according to figure 5.3.1.55 and table 5.3.1.55.</p>
---



If the length of V2X communication over PC5 in NR-PC5 contents field indicates a length bigger than indicated in figure 5.3.1.31, receiving entity shall ignore any superfluous octets located at the end of the V2X communication over PC5 in NR-PC5 contents.

8      7      6      5      4      3      2      1		
Length of V2X service identifier to V2X NR frequency mapping rules contents		octet o5+4
V2X service identifier to V2X NR frequency mapping rule 1		octet o5+5 octet (o5+6)*
V2X service identifier to V2X NR frequency mapping rule 2		octet o51* octet (o51+1)*
...		octet o52* octet (o52+1)*
V2X service identifier to V2X NR frequency mapping rule n		octet o53* octet (o53+1)* octet o45*

**Figure 5.3.1.32: V2X service identifier to V2X NR frequency mapping rules**

**Table 5.3.1.32: V2X service identifier to V2X NR frequency mapping rules**

V2X service identifier to V2X NR frequency mapping rule:  
The V2X service identifier to V2X NR frequency mapping rule is coded according to figure 5.3.1.33 and table 5.3.1.33.

8      7      6      5      4      3      2      1		
Length of V2X service identifier to V2X NR frequency mapping rule contents		octet o51+1
V2X service identifiers		octet o51+2 octet o51+3
V2X NR frequencies with geographical areas list		octet o54 octet o54+1
		octet o52

**Figure 5.3.1.33: V2X service identifier to V2X NR frequency mapping rule**

**Table 5.3.1.33: V2X service identifier to V2X NR frequency mapping rule**

V2X service identifiers:  
The V2X service identifiers field is coded according to figure 5.3.1.14 and table 5.3.1.14.

V2X NR frequencies with geographical areas list:  
The V2X NR frequencies with geographical areas list field is coded according to figure 5.3.1.34 and table 5.3.1.34.

If the length of V2X service identifier to V2X NR frequency mapping rule contents field indicates a length bigger than indicated in figure 5.3.1.33, receiving entity shall ignore any superfluous octets located at the end of the V2X service identifier to V2X NR frequency mapping rule contents.

8	7	6	5	4	3	2	1	
Length of V2X NR frequencies with geographical areas list contents								octet o54+1
V2X NR frequencies with geographical areas info 1								octet o54+2 octet (o54+3)*
V2X NR frequencies with geographical areas info 2								octet o55* octet (o55+1)*
...								octet o56* octet (o56+1)*
V2X NR frequencies with geographical areas info n								octet o57* octet (o57+1)*
								octet o52*

**Figure 5.3.1.34: V2X NR frequencies with geographical areas list**

**Table 5.3.1.34: V2X NR frequencies with geographical areas list**

V2X NR frequencies with geographical areas info:  
 The V2X NR frequencies with geographical areas info field is coded according to figure 5.3.1.35 and table 5.3.1.35.

8	7	6	5	4	3	2	1	
Length of V2X NR frequencies with geographical areas info contents								octet o55+1 octet o55+2 octet o55+3
V2X NR frequencies								octet o58
Geographical areas								octet o58+1 octet o56

**Figure 5.3.1.35: V2X NR frequencies with geographical areas info**

**Table 5.3.1.35: V2X NR frequencies with geographical areas info**

V2X NR frequencies:  
 The V2X NR frequencies field is coded according to figure 5.3.1.36 and table 5.3.1.36.

Geographical areas:  
 The geographical areas field is coded according to figure 5.3.1.18 and table 5.3.1.18.

If the length of V2X NR frequencies with geographical areas info contents field indicates a length bigger than indicated in figure 5.3.1.35, receiving entity shall ignore any superfluous octets located at the end of the V2X NR frequencies with geographical areas info contents.

8    7    6    5    4    3    2    1		
Length of V2X NR frequencies contents		octet o55+3
		octet o55+4
V2X NR frequency 1		octet (o55+5)*
		octet (o55+7)*
V2X NR frequency 2		octet (o55+8)*
		octet (o55+10)*
		octet (o55+11)*
...		octet (o55+4+(n-1)*3)*
V2X NR frequency n		octet (o55+5+(n-1)*3)*
		octet (o55+4+n*3)* = octet o58*

**Figure 5.3.1.36: V2X NR frequencies**

**Table 5.3.1.36: V2X NR frequencies**

V2X NR frequency:  
 V2X NR frequency is coded according to the NR-ARFCN value defined in 3GPP TS 38.101-1 [14] and 3GPP TS 38.101-2 [15].

8    7    6    5    4    3    2    1		
Length of V2X service identifier to destination layer-2 ID for broadcast mapping rules contents		octet o108
		octet o108+1
V2X service identifier to destination layer-2 ID for broadcast mapping rule 1		octet (o108+2)*
		octet o59*
V2X service identifier to destination layer-2 ID for broadcast mapping rule 2		octet (o59+1)*
		octet o60*
		octet (o60+1)*
...		octet o61*
V2X service identifier to destination layer-2 ID for broadcast mapping rule n		octet (o61+1)*
		octet o46*

**Figure 5.3.1.37: V2X service identifier to destination layer-2 ID for broadcast mapping rules**

**Table 5.3.1.37: V2X service identifier to destination layer-2 ID for broadcast mapping rules**

V2X service identifier to destination layer-2 ID for broadcast mapping rule:  
 The V2X service identifier to destination layer-2 ID for broadcast mapping rule field is coded according to figure 5.3.1.38 and table 5.3.1.38.

8      7      6      5      4      3      2      1		
Length of V2X service identifier to destination layer-2 ID for broadcast mapping rule contents		octet o59+1
V2X service identifiers		octet o59+2 octet o59+3
Destination layer-2 ID for broadcast		octet o62 octet o62+1
		octet (o62+3) = octet o60

**Figure 5.3.1.38: V2X service identifier to destination layer-2 ID for broadcast mapping rule**

**Table 5.3.1.38: V2X service identifier to destination layer-2 ID for broadcast mapping rule**

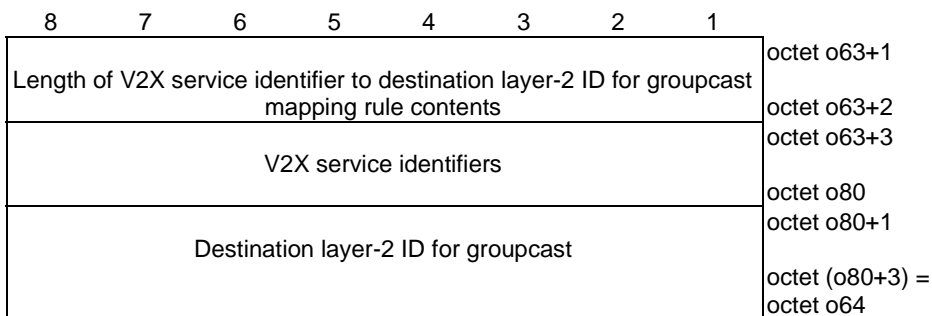
<p>V2X service identifiers: The V2X service identifiers field is coded according to figure 5.3.1.14 and table 5.3.1.14.</p> <p>Destination layer-2 ID for broadcast: The destination layer-2 ID for broadcast field is a binary coded layer 2 identifier.</p> <p>If the length of V2X service identifier to destination layer-2 ID for broadcast mapping rule contents field indicates a length bigger than indicated in figure 5.3.1.38, receiving entity shall ignore any superfluous octets located at the end of the V2X service identifier to destination layer-2 ID for broadcast mapping rule contents.</p>
--

8      7      6      5      4      3      2      1		
Length of V2X service identifier to destination layer-2 ID for groupcast mapping rules contents		octet o46+1
V2X service identifier to destination layer-2 ID for groupcast mapping rule 1		octet o46+2 octet (o46+3)*
V2X service identifier to destination layer-2 ID for groupcast mapping rule 2		octet o63* octet (o63+1)*
...		octet o64* octet (o64+1)*
V2X service identifier to destination layer-2 ID for groupcast mapping rule n		octet o65* octet (o65+1)*
		octet o47*

**Figure 5.3.1.39: V2X service identifier to destination layer-2 ID for groupcast mapping rules**

**Table 5.3.1.39: V2X service identifier to destination layer-2 ID for groupcast mapping rules**

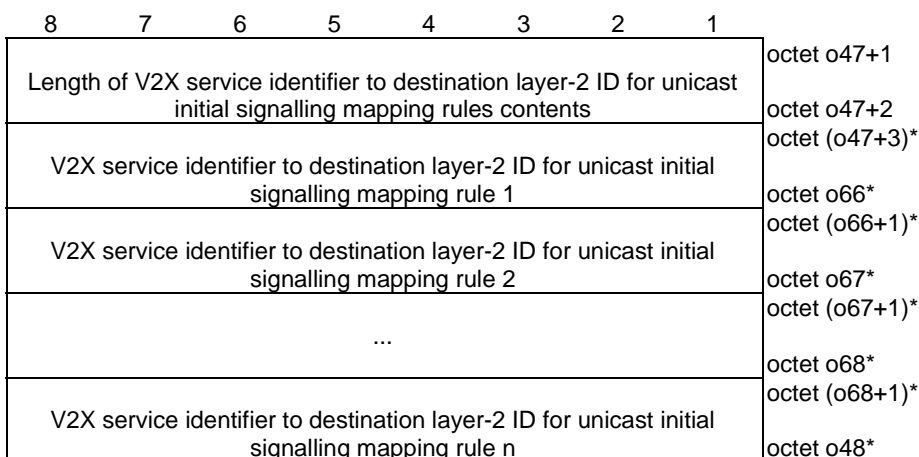
<p>V2X service identifier to destination layer-2 ID for groupcast mapping rule: The V2X service identifier to destination layer-2 ID for groupcast mapping rule field is coded according to figure 5.3.1.40 and table 5.3.1.40.</p>
---



**Figure 5.3.1.40: V2X service identifier to destination layer-2 ID for groupcast mapping rule**

**Table 5.3.1.40: V2X service identifier to destination layer-2 ID for groupcast mapping rule**

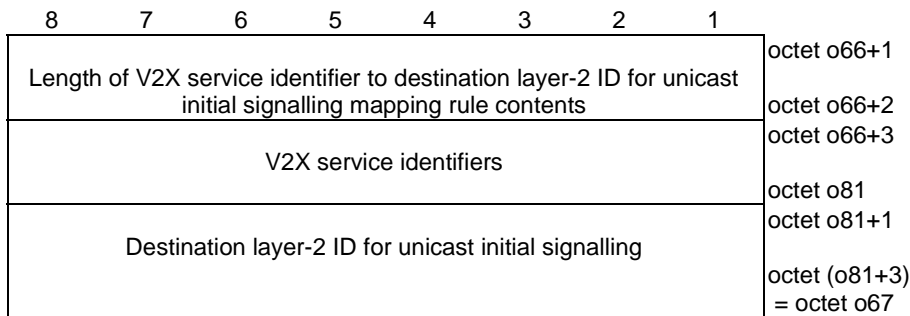
<p>V2X service identifiers: The V2X service identifiers field is coded according to figure 5.3.1.14 and table 5.3.1.14.</p> <p>Destination layer-2 ID for groupcast: The destination layer-2 ID for groupcast field is a binary coded layer 2 identifier.</p> <p>If the length of V2X service identifier to destination layer-2 ID for groupcast mapping rule contents field indicates a length bigger than indicated in figure 5.3.1.40, receiving entity shall ignore any superfluous octets located at the end of the V2X service identifier to destination layer-2 ID for groupcast mapping rule contents.</p>
--



**Figure 5.3.1.41: V2X service identifier to destination layer-2 ID for unicast initial signalling mapping rules**

**Table 5.3.1.41: V2X service identifier to destination layer-2 ID for unicast initial signalling mapping rules**

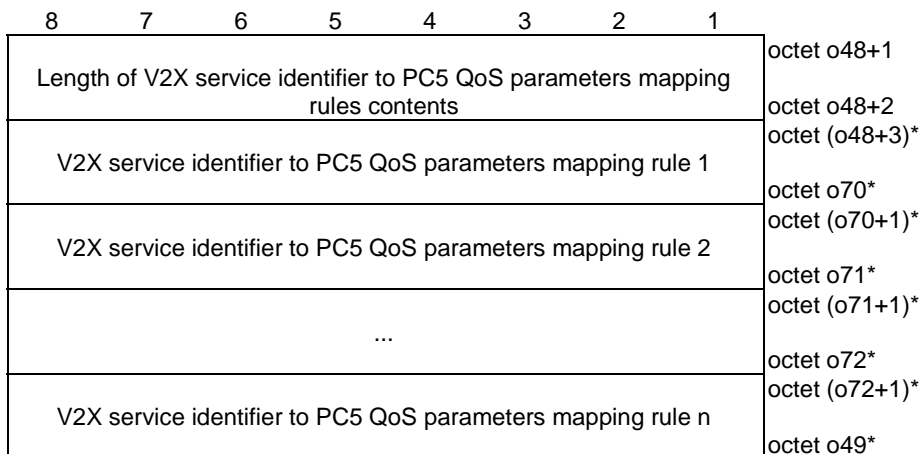
<p>V2X service identifier to destination layer-2 ID for unicast initial signalling mapping rule: The V2X service identifier to destination layer-2 ID for unicast initial signalling mapping rule field is coded according to figure 5.3.1.42 and table 5.3.1.42.</p>
---



**Figure 5.3.1.42: V2X service identifier to destination layer-2 ID for unicast initial signalling mapping rule**

**Table 5.3.1.42: V2X service identifier to destination layer-2 ID for unicast initial signalling mapping rule**

<p>V2X service identifiers: The V2X service identifiers field is coded according to figure 5.3.1.14 and table 5.3.1.14.</p> <p>Destination layer-2 ID for unicast initial signalling: The destination layer-2 ID for unicast initial signalling field is a binary coded layer 2 identifier.</p> <p>If the length of V2X service identifier to destination layer-2 ID for unicast initial signalling mapping rule contents field indicates a length bigger than indicated in figure 5.3.1.42, receiving entity shall ignore any superfluous octets located at the end of the V2X service identifier to destination layer-2 ID for unicast initial signalling mapping rule contents.</p>
--



**Figure 5.3.1.43: V2X service identifier to PC5 QoS parameters mapping rules**

**Table 5.3.1.43: V2X service identifier to PC5 QoS parameters mapping rules**

<p>V2X service identifier to PC5 QoS parameters mapping rule: The V2X service identifier to PC5 QoS parameters mapping rule field is coded according to figure 5.3.1.46 and table 5.3.1.46.</p>
---

**Figure 5.3.1.44: void**

**Table 5.3.1.44: void**

**Figure 5.3.1.45: void**

**Table 5.3.1.45: void**

8	7	6	5	4	3	2	1	
Length of V2X service identifier to PC5 QoS parameters mapping rule contents								octet o70+1
V2X service identifiers								octet o70+2 octet o70+3
GFBRI	MFBRI	PLAMB RI	RI	0 Spare	0 Spare	0 Spare	0 Spare	octet o74 octet o74+1
PQI								octet o74+2
Guaranteed flow bit rate								octet (o74+3)*
Maximum flow bit rate								octet (o74+5)* octet (o94)* (see NOTE)
Per-link aggregate maximum bit rate								octet (o94+2)* octet (o95)* (see NOTE)
Range								octet (o95+2)* octet (o96)* (see NOTE) octet (o96+2)* = octet o71*

NOTE: The field is placed immediately after the last present preceding field.

**Figure 5.3.1.46: V2X service identifier to PC5 QoS parameters mapping rule**

**Table 5.3.1.46: V2X service identifier to PC5 QoS parameters mapping rule**



**V2X service identifiers:**

The V2X service identifiers field is coded according to figure 5.3.1.14 and table 5.3.1.14.

**Guaranteed flow bit rate indicator (GFBR):**

The GFBR bit indicates presence of guaranteed flow bit rate field.

Bit

**8**

- 0 Guaranteed flow bit rate field is absent
- 1 Guaranteed flow bit rate field is present

**Maximum flow bit rate indicator (MFBR):**

The MFBR bit indicates presence of maximum flow bit rate field.

Bit

**7**

- 0 Maximum flow bit rate field is absent
- 1 Maximum flow bit rate field is present

**Per-link aggregate maximum bit rate indicator (PLAMBR):**

The PLAMBR bit indicates presence of per-link aggregate maximum bit rate field.

Bit

**6**

- 0 Per-link aggregate maximum bit rate field is absent
- 1 Per-link aggregate maximum bit rate field is present

**Range indicator (RI):**

The RI bit indicates presence of range field.

Bit

**5**

- 0 Range field is absent
- 1 Range field is present

PQI:	
Bits	
<b>8 7 6 5 4 3 2 1</b>	
0 0 0 0 0 0 0 0	Reserved
0 0 0 0 0 0 0 1	
to Spare	
0 0 0 1 0 1 0 0	
0 0 0 1 0 1 0 1	PQI 21
0 0 0 1 0 1 1 0	PQI 22
0 0 0 1 0 1 1 1	PQI 23
0 0 0 1 1 0 0 0	
to Spare	
0 0 1 1 0 1 1 0	
0 0 1 1 0 1 1 1	PQI 55
0 0 1 1 1 0 0 0	PQI 56
0 0 1 1 1 0 0 1	PQI 57
0 0 1 1 1 0 1 0	PQI 58
0 0 1 1 1 0 1 1	PQI 59
0 0 1 1 1 1 0 0	
to Spare	
0 1 0 1 1 0 0 1	
0 1 0 1 1 0 1 0	PQI 90
0 1 0 1 1 0 1 1	PQI 91
0 1 0 1 1 1 0 0	
to Spare	
0 1 1 1 1 1 1 1	
1 0 0 0 0 0 0 0	
to Operator-specific PQIs	
1 1 1 1 1 1 1 0	
1 1 1 1 1 1 1 1	Reserved

If the UE receives a PQI value (excluding the reserved PQI values) that it does not understand, the UE shall choose a PQI value from the set of PQI values defined in this version of the protocol (see 3GPP TS 23.287 [2]) and associated with:

- GBR resource type, if the V2X service identifier to PC5 QoS parameters mapping rule includes the guaranteed flow bit rate field; and
- non-GBR resource type, if the V2X service identifier to PC5 QoS parameters mapping rule does not include the guaranteed flow bit rate field.

The UE shall use this chosen PQI value for internal operations only. The UE shall use the received PQI value in subsequent V2X communication over PC5 signalling procedures.

**Guaranteed flow bit rate:**

The guaranteed flow bit rate field indicates guaranteed flow bit rate for both sending and receiving and contains one octet indicating the unit of the guaranteed flow bit rate followed by two octets containing the value of the guaranteed flow bit rate.

**Unit of the guaranteed flow bit rate:**

Bits

**8 7 6 5 4 3 2 1**

0 0 0 0 0 0 0 0	value is not used
0 0 0 0 0 0 0 1	value is incremented in multiples of 1 Kbps
0 0 0 0 0 0 1 0	value is incremented in multiples of 4 Kbps
0 0 0 0 0 0 1 1	value is incremented in multiples of 16 Kbps
0 0 0 0 0 1 0 0	value is incremented in multiples of 64 Kbps
0 0 0 0 0 1 0 1	value is incremented in multiples of 256 Kbps
0 0 0 0 0 1 1 0	value is incremented in multiples of 1 Mbps
0 0 0 0 0 1 1 1	value is incremented in multiples of 4 Mbps
0 0 0 0 1 0 0 0	value is incremented in multiples of 16 Mbps
0 0 0 0 1 0 0 1	value is incremented in multiples of 64 Mbps
0 0 0 0 1 0 1 0	value is incremented in multiples of 256 Mbps
0 0 0 0 1 0 1 1	value is incremented in multiples of 1 Gbps
0 0 0 0 1 1 0 0	value is incremented in multiples of 4 Gbps
0 0 0 0 1 1 0 1	value is incremented in multiples of 16 Gbps
0 0 0 0 1 1 1 0	value is incremented in multiples of 64 Gbps
0 0 0 0 1 1 1 1	value is incremented in multiples of 256 Gbps
0 0 0 1 0 0 0 0	value is incremented in multiples of 1 Tbps
0 0 0 1 0 0 0 1	value is incremented in multiples of 4 Tbps
0 0 0 1 0 0 1 0	value is incremented in multiples of 16 Tbps
0 0 0 1 0 0 1 1	value is incremented in multiples of 64 Tbps
0 0 0 1 0 1 0 0	value is incremented in multiples of 256 Tbps
0 0 0 1 0 1 0 1	value is incremented in multiples of 1 Pbps
0 0 0 1 0 1 1 0	value is incremented in multiples of 4 Pbps
0 0 0 1 0 1 1 1	value is incremented in multiples of 16 Pbps
0 0 0 1 1 0 0 0	value is incremented in multiples of 64 Pbps
0 0 0 1 1 0 0 1	value is incremented in multiples of 256 Pbps

Other values shall be interpreted as multiples of 256 Pbps in this version of the protocol.

Value of the guaranteed flow bit rate is binary coded value of the guaranteed flow bit rate in units defined by the unit of the guaranteed flow bit rate.

**Maximum flow bit rate:**

The maximum flow bit rate field indicates maximum flow bit rate for both sending and receiving and contains one octet indicating the unit of the maximum flow bit rate followed by two octets containing the value of the maximum flow bit rate.

**Unit of the maximum flow bit rate:**

Bits

**8 7 6 5 4 3 2 1**

0 0 0 0 0 0 0 0	value is not used
0 0 0 0 0 0 0 1	value is incremented in multiples of 1 Kbps
0 0 0 0 0 0 1 0	value is incremented in multiples of 4 Kbps
0 0 0 0 0 0 1 1	value is incremented in multiples of 16 Kbps
0 0 0 0 0 1 0 0	value is incremented in multiples of 64 Kbps
0 0 0 0 0 1 0 1	value is incremented in multiples of 256 Kbps
0 0 0 0 0 1 1 0	value is incremented in multiples of 1 Mbps
0 0 0 0 0 1 1 1	value is incremented in multiples of 4 Mbps
0 0 0 0 1 0 0 0	value is incremented in multiples of 16 Mbps
0 0 0 0 1 0 0 1	value is incremented in multiples of 64 Mbps
0 0 0 0 1 0 1 0	value is incremented in multiples of 256 Mbps
0 0 0 0 1 0 1 1	value is incremented in multiples of 1 Gbps
0 0 0 0 1 1 0 0	value is incremented in multiples of 4 Gbps
0 0 0 0 1 1 0 1	value is incremented in multiples of 16 Gbps
0 0 0 0 1 1 1 0	value is incremented in multiples of 64 Gbps
0 0 0 0 1 1 1 1	value is incremented in multiples of 256 Gbps
0 0 0 1 0 0 0 0	value is incremented in multiples of 1 Tbps
0 0 0 1 0 0 0 1	value is incremented in multiples of 4 Tbps
0 0 0 1 0 0 1 0	value is incremented in multiples of 16 Tbps
0 0 0 1 0 0 1 1	value is incremented in multiples of 64 Tbps
0 0 0 1 0 1 0 0	value is incremented in multiples of 256 Tbps
0 0 0 1 0 1 0 1	value is incremented in multiples of 1 Pbps
0 0 0 1 0 1 1 0	value is incremented in multiples of 4 Pbps
0 0 0 1 0 1 1 1	value is incremented in multiples of 16 Pbps
0 0 0 1 1 0 0 0	value is incremented in multiples of 64 Pbps
0 0 0 1 1 0 0 1	value is incremented in multiples of 256 Pbps

Other values shall be interpreted as multiples of 256 Pbps in this version of the protocol.

Value of the maximum flow bit rate is binary coded value of the maximum flow bit rate in units defined by the unit of the maximum flow bit rate.

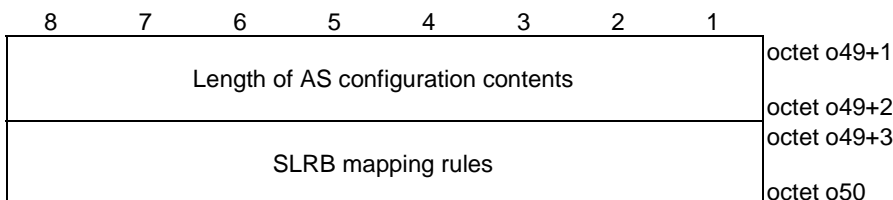
Per-link aggregate maximum bit rate:  
 The per-link aggregate maximum bit rate field indicates per-link aggregate maximum bit rate for both sending and receiving and contains one octet indicating the unit of the per-link aggregate maximum bit rate followed by two octets containing the value of the per-link aggregate maximum bit rate.

Unit of the per-link aggregate maximum bit rate:  
 Bits  
**8 7 6 5 4 3 2 1**  
 0 0 0 0 0 0 0 0 value is not used  
 0 0 0 0 0 0 0 1 value is incremented in multiples of 1 Kbps  
 0 0 0 0 0 0 1 0 value is incremented in multiples of 4 Kbps  
 0 0 0 0 0 0 1 1 value is incremented in multiples of 16 Kbps  
 0 0 0 0 0 1 0 0 value is incremented in multiples of 64 Kbps  
 0 0 0 0 0 1 0 1 value is incremented in multiples of 256 Kbps  
 0 0 0 0 0 1 1 0 value is incremented in multiples of 1 Mbps  
 0 0 0 0 0 1 1 1 value is incremented in multiples of 4 Mbps  
 0 0 0 0 1 0 0 0 value is incremented in multiples of 16 Mbps  
 0 0 0 0 1 0 0 1 value is incremented in multiples of 64 Mbps  
 0 0 0 0 1 0 1 0 value is incremented in multiples of 256 Mbps  
 0 0 0 0 1 0 1 1 value is incremented in multiples of 1 Gbps  
 0 0 0 0 1 1 0 0 value is incremented in multiples of 4 Gbps  
 0 0 0 0 1 1 0 1 value is incremented in multiples of 16 Gbps  
 0 0 0 0 1 1 1 0 value is incremented in multiples of 64 Gbps  
 0 0 0 0 1 1 1 1 value is incremented in multiples of 256 Gbps  
 0 0 0 1 0 0 0 0 value is incremented in multiples of 1 Tbps  
 0 0 0 1 0 0 0 1 value is incremented in multiples of 4 Tbps  
 0 0 0 1 0 0 1 0 value is incremented in multiples of 16 Tbps  
 0 0 0 1 0 0 1 1 value is incremented in multiples of 64 Tbps  
 0 0 0 1 0 1 0 0 value is incremented in multiples of 256 Tbps  
 0 0 0 1 0 1 0 1 value is incremented in multiples of 1 Pbps  
 0 0 0 1 0 1 1 0 value is incremented in multiples of 4 Pbps  
 0 0 0 1 0 1 1 1 value is incremented in multiples of 16 Pbps  
 0 0 0 1 1 0 0 0 value is incremented in multiples of 64 Pbps  
 0 0 0 1 1 0 0 1 value is incremented in multiples of 256 Pbps  
 Other values shall be interpreted as multiples of 256 Pbps in this version of the protocol.

Value of the per-link aggregate maximum bit rate is binary coded value of the per-link aggregate maximum bit rate in units defined by the unit of the per-link aggregate maximum bit rate.

Range  
 The range field indicates a binary encoded value of the range in meters.

If the length of V2X service identifier to PC5 QoS parameters mapping rule contents field indicates a length bigger than indicated in figure 5.3.1.46, receiving entity shall ignore any superfluous octets located at the end of the V2X service identifier to PC5 QoS parameters mapping rule contents.



**Figure 5.3.1.46a: AS configuration**

**Table 5.3.1.46a: AS configuration**

SLRB mapping rules:  
 The SLRB mapping rules field is coded according to figure 5.3.1.47 and table 5.3.1.47.  
  
 If the length of AS configuration contents field indicates a length bigger than indicated in figure 5.3.1.46a, receiving entity shall ignore any superfluous octets located at the end of the AS configuration contents.

8	7	6	5	4	3	2	1	
Length of SLRB mapping rules contents								octet o49+3
SLRB mapping rule 1								octet o49+4 octet (o49+5)*
SLRB mapping rule 2								octet o75* octet (o75+1)*
...								octet o76* octet (o76+1)*
SLRB mapping rule n								octet o77* octet (o77+1)* octet o50*

**Figure 5.3.1.47: SLRB mapping rules**

**Table 5.3.1.47: SLRB mapping rules**

SLRB mapping rule:  
 The SLRB mapping rule field is coded according to figure 5.3.1.48 and table 5.3.1.48.

8	7	6	5	4	3	2	1	
Length of SLRB mapping rule contents								octet o75+1 octet o75+2 octet o75+3
PC5 QoS profile								octet o78
Length of SLRB								octet o78+1 octet o78+2 octet o78+3
SLRB								octet o76

**Figure 5.3.1.48: SLRB mapping rule**

**Table 5.3.1.48: SLRB mapping rule**

PC5 QoS profile:  
 The PC5 QoS profile field is coded according to figure 5.3.1.49 and table 5.3.1.49.  
  
 SLRB  
 SLRB is defined as *SL-PreconfigurationNR* in clause 9.3 of 3GPP TS 38.331 [12].  
  
 If the length of SLRB mapping rule contents field indicates a length bigger than indicated in figure 5.3.1.48, receiving entity shall ignore any superfluous octets located at the end of the SLRB mapping rule contents.

Length of PC5 QoS profile contents								octet o75+3
PQI								octet o75+4
8	7	6	5	4	3	2	1	octet o73+5
GFBR	MFBRI	PLAMB RI	RI	PLOI	AWI	MDBVI	0 Spare	
Guaranteed flow bit rate								octet (o75+6)
Maximum flow bit rate								octet (o75+7)*
Per-link aggregate maximum bit rate								octet (o75+9)*
Range								octet o97* (see NOTE)
0 Spare	0 Spare	0 Spare	0 Spare	0 Spare	Priority level			octet (o97+2)*
Averaging window								octet o98* (see NOTE)
Maximum data burst volume								octet (o98+2)*
Maximum data burst volume								octet o99* (see NOTE)
Maximum data burst volume								octet (o99+1)*
Maximum data burst volume								octet o100* (see NOTE)
Maximum data burst volume								octet o101* (see NOTE)
Maximum data burst volume								octet (o101+1)*
Maximum data burst volume								octet o102* (see NOTE)
Maximum data burst volume								octet (o102+1)*
Maximum data burst volume								= octet o78*

NOTE: The field is placed immediately after the last present preceding field.

**Figure 5.3.1.49:PC5 QoS profile**

**Table 5.3.1.49:PC5 QoS profile**



Guaranteed flow bit rate indicator (GFBRI): The GFBRI bit indicates presence of guaranteed flow bit rate field. Bit <b>8</b> 0 Guaranteed flow bit rate field is absent 1 Guaranteed flow bit rate field is present
Maximum flow bit rate indicator (MFBRI): The MFBRI bit indicates presence of maximum flow bit rate field. Bit <b>7</b> 0 Maximum flow bit rate field is absent 1 Maximum flow bit rate field is present
Per-link aggregate maximum bit rate indicator (PLAMBRI): The PLAMBRI bit indicates presence of per-link aggregate maximum bit rate field. Bit <b>6</b> 0 Per-link aggregate maximum bit rate field is absent 1 Per-link aggregate maximum bit rate field is present
Range indicator (RI): The RI bit indicates presence of range field. Bit <b>5</b> 0 Range field is absent 1 Range field is present
Priority level octet indicator (OPLI): The OPLI bit indicates presence of the octet of the priority level field. Bit <b>4</b> 0 The octet of the priority level is absent 1 The octet of the priority level is present
Averaging window indicator (AWI): The AWI bit indicates presence of averaging window field. Bit <b>3</b> 0 Averaging window field is absent 1 Averaging window field is present
Maximum data burst volume indicator (MDBVI): The MDBVI bit indicates presence of maximum data burst volume field. Bit <b>2</b> 0 Maximum data burst volume field is absent 1 Maximum data burst volume field is present

PQI:  
 Bits  
**8 7 6 5 4 3 2 1**  
 0 0 0 0 0 0 0 0 Reserved  
 0 0 0 0 0 0 0 1  
     to Spare  
 0 0 0 1 0 1 0 0  
 0 0 0 1 0 1 0 1 PQI 21  
 0 0 0 1 0 1 1 0 PQI 22  
 0 0 0 1 0 1 1 1 PQI 23  
 0 0 0 1 1 0 0 0  
     to Spare  
 0 0 1 1 0 1 1 0  
 0 0 1 1 0 1 1 1 PQI 55  
 0 0 1 1 1 0 0 0 PQI 56  
 0 0 1 1 1 0 0 1 PQI 57  
 0 0 1 1 1 0 1 0 PQI 58  
 0 0 1 1 1 0 1 1 PQI 59  
 0 0 1 1 1 1 0 0  
     to Spare  
 0 1 0 1 1 0 0 1  
 0 1 0 1 1 0 1 0 PQI 90  
 0 1 0 1 1 0 1 1 PQI 91  
 0 1 0 1 1 1 0 0  
     to Spare  
 0 1 1 1 1 1 1 1  
 1 0 0 0 0 0 0 0  
     to Operator-specific PQIs  
 1 1 1 1 1 1 1 0  
 1 1 1 1 1 1 1 1 Reserved

If the UE receives a PQI value (excluding the reserved PQI values) that it does not understand, the UE shall choose a PQI value from the set of PQI values defined in this version of the protocol (see 3GPP TS 23.287 [2]) and associated with:

- GBR resource type, if the PC5 QoS profile includes the guaranteed flow bit rate field; and
- non-GBR resource type, if the PC5 QoS profile does not include the guaranteed flow bit rate field.

The UE shall use this chosen PQI value for internal operations only. The UE shall use the received PQI value in subsequent V2X communication over PC5 signalling procedures.

**Guaranteed flow bit rate:**

The guaranteed flow bit rate field indicates guaranteed flow bit rate for both sending and receiving and contains one octet indicating the unit of the guaranteed flow bit rate followed by two octets containing the value of the guaranteed flow bit rate.

**Unit of the guaranteed flow bit rate:**

Bits

**8 7 6 5 4 3 2 1**

0 0 0 0 0 0 0 0	value is not used
0 0 0 0 0 0 0 1	value is incremented in multiples of 1 Kbps
0 0 0 0 0 0 1 0	value is incremented in multiples of 4 Kbps
0 0 0 0 0 0 1 1	value is incremented in multiples of 16 Kbps
0 0 0 0 0 1 0 0	value is incremented in multiples of 64 Kbps
0 0 0 0 0 1 0 1	value is incremented in multiples of 256 Kbps
0 0 0 0 0 1 1 0	value is incremented in multiples of 1 Mbps
0 0 0 0 0 1 1 1	value is incremented in multiples of 4 Mbps
0 0 0 0 1 0 0 0	value is incremented in multiples of 16 Mbps
0 0 0 0 1 0 0 1	value is incremented in multiples of 64 Mbps
0 0 0 0 1 0 1 0	value is incremented in multiples of 256 Mbps
0 0 0 0 1 0 1 1	value is incremented in multiples of 1 Gbps
0 0 0 0 1 1 0 0	value is incremented in multiples of 4 Gbps
0 0 0 0 1 1 0 1	value is incremented in multiples of 16 Gbps
0 0 0 0 1 1 1 0	value is incremented in multiples of 64 Gbps
0 0 0 0 1 1 1 1	value is incremented in multiples of 256 Gbps
0 0 0 1 0 0 0 0	value is incremented in multiples of 1 Tbps
0 0 0 1 0 0 0 1	value is incremented in multiples of 4 Tbps
0 0 0 1 0 0 1 0	value is incremented in multiples of 16 Tbps
0 0 0 1 0 0 1 1	value is incremented in multiples of 64 Tbps
0 0 0 1 0 1 0 0	value is incremented in multiples of 256 Tbps
0 0 0 1 0 1 0 1	value is incremented in multiples of 1 Pbps
0 0 0 1 0 1 1 0	value is incremented in multiples of 4 Pbps
0 0 0 1 0 1 1 1	value is incremented in multiples of 16 Pbps
0 0 0 1 1 0 0 0	value is incremented in multiples of 64 Pbps
0 0 0 1 1 0 0 1	value is incremented in multiples of 256 Pbps

Other values shall be interpreted as multiples of 256 Pbps in this version of the protocol.

Value of the guaranteed flow bit rate is binary coded value of the guaranteed flow bit rate in units defined by the unit of the guaranteed flow bit rate.

Maximum flow bit rate:  
 The maximum flow bit rate field indicates maximum flow bit rate for both sending and receiving and contains one octet indicating the unit of the maximum flow bit rate followed by two octets containing the value of the maximum flow bit rate.

Unit of the maximum flow bit rate:  
 Bits  
**8 7 6 5 4 3 2 1**

0 0 0 0 0 0 0 0	value is not used
0 0 0 0 0 0 0 1	value is incremented in multiples of 1 Kbps
0 0 0 0 0 0 1 0	value is incremented in multiples of 4 Kbps
0 0 0 0 0 0 1 1	value is incremented in multiples of 16 Kbps
0 0 0 0 0 1 0 0	value is incremented in multiples of 64 Kbps
0 0 0 0 0 1 0 1	value is incremented in multiples of 256 Kbps
0 0 0 0 0 1 1 0	value is incremented in multiples of 1 Mbps
0 0 0 0 0 1 1 1	value is incremented in multiples of 4 Mbps
0 0 0 0 1 0 0 0	value is incremented in multiples of 16 Mbps
0 0 0 0 1 0 0 1	value is incremented in multiples of 64 Mbps
0 0 0 0 1 0 1 0	value is incremented in multiples of 256 Mbps
0 0 0 0 1 0 1 1	value is incremented in multiples of 1 Gbps
0 0 0 0 1 1 0 0	value is incremented in multiples of 4 Gbps
0 0 0 0 1 1 0 1	value is incremented in multiples of 16 Gbps
0 0 0 0 1 1 1 0	value is incremented in multiples of 64 Gbps
0 0 0 0 1 1 1 1	value is incremented in multiples of 256 Gbps
0 0 0 1 0 0 0 0	value is incremented in multiples of 1 Tbps
0 0 0 1 0 0 0 1	value is incremented in multiples of 4 Tbps
0 0 0 1 0 0 1 0	value is incremented in multiples of 16 Tbps
0 0 0 1 0 0 1 1	value is incremented in multiples of 64 Tbps
0 0 0 1 0 1 0 0	value is incremented in multiples of 256 Tbps
0 0 0 1 0 1 0 1	value is incremented in multiples of 1 Pbps
0 0 0 1 0 1 1 0	value is incremented in multiples of 4 Pbps
0 0 0 1 0 1 1 1	value is incremented in multiples of 16 Pbps
0 0 0 1 1 0 0 0	value is incremented in multiples of 64 Pbps
0 0 0 1 1 0 0 1	value is incremented in multiples of 256 Pbps

Other values shall be interpreted as multiples of 256 Pbps in this version of the protocol.

Value of the maximum flow bit rate is binary coded value of the maximum flow bit rate in units defined by the unit of the maximum flow bit rate.

Per-link aggregate maximum bit rate:

The per-link aggregate maximum bit rate field indicates per-link aggregate maximum bit rate for both sending and receiving and contains one octet indicating the unit of the per-link aggregate maximum bit rate followed by two octets containing the value of the per-link aggregate maximum bit rate.

Unit of the per-link aggregate maximum bit rate:

Bits

**8 7 6 5 4 3 2 1**

0 0 0 0 0 0 0 0	value is not used
0 0 0 0 0 0 0 1	value is incremented in multiples of 1 Kbps
0 0 0 0 0 0 1 0	value is incremented in multiples of 4 Kbps
0 0 0 0 0 0 1 1	value is incremented in multiples of 16 Kbps
0 0 0 0 0 1 0 0	value is incremented in multiples of 64 Kbps
0 0 0 0 0 1 0 1	value is incremented in multiples of 256 Kbps
0 0 0 0 0 1 1 0	value is incremented in multiples of 1 Mbps
0 0 0 0 0 1 1 1	value is incremented in multiples of 4 Mbps
0 0 0 0 1 0 0 0	value is incremented in multiples of 16 Mbps
0 0 0 0 1 0 0 1	value is incremented in multiples of 64 Mbps
0 0 0 0 1 0 1 0	value is incremented in multiples of 256 Mbps
0 0 0 0 1 0 1 1	value is incremented in multiples of 1 Gbps
0 0 0 0 1 1 0 0	value is incremented in multiples of 4 Gbps
0 0 0 0 1 1 0 1	value is incremented in multiples of 16 Gbps
0 0 0 0 1 1 1 0	value is incremented in multiples of 64 Gbps
0 0 0 0 1 1 1 1	value is incremented in multiples of 256 Gbps
0 0 0 1 0 0 0 0	value is incremented in multiples of 1 Tbps
0 0 0 1 0 0 0 1	value is incremented in multiples of 4 Tbps
0 0 0 1 0 0 1 0	value is incremented in multiples of 16 Tbps
0 0 0 1 0 0 1 1	value is incremented in multiples of 64 Tbps
0 0 0 1 0 1 0 0	value is incremented in multiples of 256 Tbps
0 0 0 1 0 1 0 1	value is incremented in multiples of 1 Pbps
0 0 0 1 0 1 1 0	value is incremented in multiples of 4 Pbps
0 0 0 1 0 1 1 1	value is incremented in multiples of 16 Pbps
0 0 0 1 1 0 0 0	value is incremented in multiples of 64 Pbps
0 0 0 1 1 0 0 1	value is incremented in multiples of 256 Pbps

Other values shall be interpreted as multiples of 256 Pbps in this version of the protocol.

Value of the per-link aggregate maximum bit rate is binary coded value of the per-link aggregate maximum bit rate in units defined by the unit of the per-link aggregate maximum bit rate.

Range:

The range field indicates a binary encoded value of the range in meters.

Priority level:

The Priority level field contains a ProSe per-packet priority value.

Bits

**3 2 1**

0 0 0	PPPP value 1
0 0 1	PPPP value 2
0 1 0	PPPP value 3
0 1 1	PPPP value 4
1 0 0	PPPP value 5
1 0 1	PPPP value 6
1 1 0	PPPP value 7
1 1 1	PPPP value 8

Averaging window:

The averaging window field indicates a binary representation of the averaging window for both sending and receiving in milliseconds.

Maximum data burst volume:

The maximum data burst volume field indicates a binary representation of the maximum data burst volume for both sending and receiving in octets.

If the length of PC5 QoS profile contents field indicates a length bigger than indicated in figure 5.3.1.49, receiving entity shall ignore any superfluous octets located at the end of the PC5 QoS profile contents.

8	7	6	5	4	3	2	1	
Length of NR-PC5 unicast security policies contents								octet o93
NR-PC5 unicast security policy 1								octet o93+1 octet (o93+2)*
NR-PC5 unicast security policy 2								octet o86* octet (o86+1)*
...								octet o87* octet (o87+1)*
NR-PC5 unicast security policy n								octet o88* octet (o88+1)* octet o84*

**Figure 5.3.1.50: NR-PC5 unicast security policies**

**Table 5.3.1.50: NR-PC5 unicast security policies**

NR-PC5 unicast security policy:  
The NR-PC5 unicast security policy field is coded according to figure 5.3.1.51 and table 5.3.1.51.

8	7	6	5	4	3	2	1	
Length of NR-PC5 unicast security policy contents								octet o86+1 octet o86+2 octet o86+3
V2X service identifiers								octet o89 octet o89+1
Security policy								octet o89+2 octet o89+3
Geographical areas								octet o87

**Figure 5.3.1.51: NR-PC5 unicast security policy**

**Table 5.3.1.51: NR-PC5 unicast security policy**

V2X service identifiers:  
The V2X service identifiers field is coded according to figure 5.3.1.14 and table 5.3.1.14.

Security policy:  
The security policy field is coded according to figure 5.3.1.52 and table 5.3.1.52

Geographical areas:  
The geographical areas field is coded according to figure 5.3.1.18 and table 5.3.1.18.

If the length of NR-PC5 unicast security policy contents field indicates a length bigger than indicated in figure 5.3.1.51, the receiving entity shall ignore any superfluous octets located at the end of the NR-PC5 unicast security policy contents.

8	7	6	5	4	3	2	1	
0 spare	Signalling ciphering policy			0 spare	Signalling integrity protection policy			octet o89+1
0 spare	User plane ciphering policy			0 spare	User plane integrity protection policy			octet o89+2

**Figure 5.3.1.52: Security policy**

**Table 5.3.1.52: Security policy**

Signalling integrity protection policy (octet o89+1, bit 1 to 3):			
Bits			
<b>3</b>	<b>2</b>	<b>1</b>	
0	0	0	Signalling integrity protection not needed
0	0	1	Signalling integrity protection preferred
0	1	0	Signalling integrity protection required
0	1	1	to Spare
1	1	0	
1	1	1	Reserved
If the UE receives a signalling integrity protection policy value that the UE does not understand, the UE shall interpret the value as 010 "Signalling integrity protection required".			
Signalling ciphering policy (octet o89+1, bit 5 to 7):			
Bits			
<b>7</b>	<b>6</b>	<b>5</b>	
0	0	0	Signalling ciphering not needed
0	0	1	Signalling ciphering preferred
0	1	0	Signalling ciphering required
0	1	1	to Spare
1	1	0	
1	1	1	Reserved
If the UE receives a signalling ciphering policy value that the UE does not understand, the UE shall interpret the value as 010 "Signalling ciphering required".			
Bit 4 and 8 of octet o89+1 are spare and shall be coded as zero.			
User plane integrity protection policy (octet o89+2, bit 1 to 3):			
Bits			
<b>3</b>	<b>2</b>	<b>1</b>	
0	0	0	User plane integrity protection not needed
0	0	1	User plane integrity protection preferred
0	1	0	User plane integrity protection required
0	1	1	to Spare
1	1	0	
1	1	1	Reserved
If the UE receives a user plane integrity protection policy value that the UE does not understand, the UE shall interpret the value as 010 "User plane integrity protection required".			
User plane ciphering policy (octet o89+2, bit 5 to 7):			
Bits			
<b>7</b>	<b>6</b>	<b>5</b>	
0	0	0	User plane ciphering not needed
0	0	1	User plane ciphering preferred
0	1	0	User plane ciphering required
0	1	1	to Spare
1	1	0	
1	1	1	Reserved
If the UE receives a user plane ciphering policy value that the UE does not understand, the UE shall interpret the value as 010 "User plane ciphering required".			
Bit 4 and 8 of octet o89+2 are spare and shall be coded as zero.			



8	7	6	5	4	3	2	1	
Length of V2X service identifier to default mode of communication mapping rules contents								octet o84+1
V2X service identifier to default mode of communication mapping rule 1								octet o84+2 octet (o84+3)*
V2X service identifier to default mode of communication mapping rule 2								octet o90* octet (o90+1)*
...								octet o91* octet (o91+1)*
V2X service identifier to default mode of communication mapping rule n								octet o92* octet (o92+1)* octet o85*

**Figure 5.3.1.53: V2X service identifier to default mode of communication mapping rules**

**Table 5.3.1.53: V2X service identifier to default mode of communication mapping rules**

V2X service identifier to default mode of communication mapping rule:  
The V2X service identifier to default mode of communication mapping rule field is coded according to figure 5.3.1.54 and table 5.3.1.54.

8	7	6	5	4	3	2	1	
Length of V2X service identifier to default mode of communication mapping rule contents								octet o90+1 octet o90+2 octet o90+3
V2X service identifiers								octet o91-1
0 Spare	0 Spare	0 Spare	0 Spare	0 Spare	0 Spare	DMC		octet o91

**Figure 5.3.1.54: V2X service identifier to default mode of communication mapping rule**

**Table 5.3.1.54: V2X service identifier to default mode of communication mapping rule**

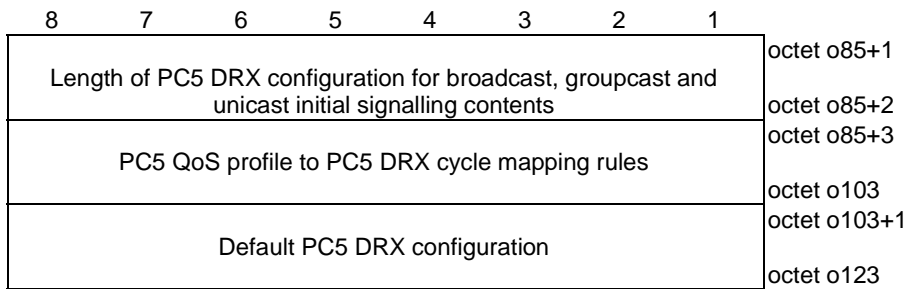
V2X service identifiers:  
The V2X service identifiers field is coded according to figure 5.3.1.14 and table 5.3.1.14.

Default mode of communication (DMC):  
The DMC field indicates the default mode of communication.

Bits  
**2 1**  
0 0 unicast  
0 1 groupcast  
1 0 broadcast  
1 1 spare

If the DMC field is set to a spare value, the receiving entity shall ignore the V2X service identifier to default mode of communication mapping rule.

If the length of V2X service identifier to default mode of communication mapping rule contents field indicates a length bigger than indicated in figure 5.3.1.54, receiving entity shall ignore any superfluous octets located at the end of the V2X service identifier to default mode of communication mapping rule contents.



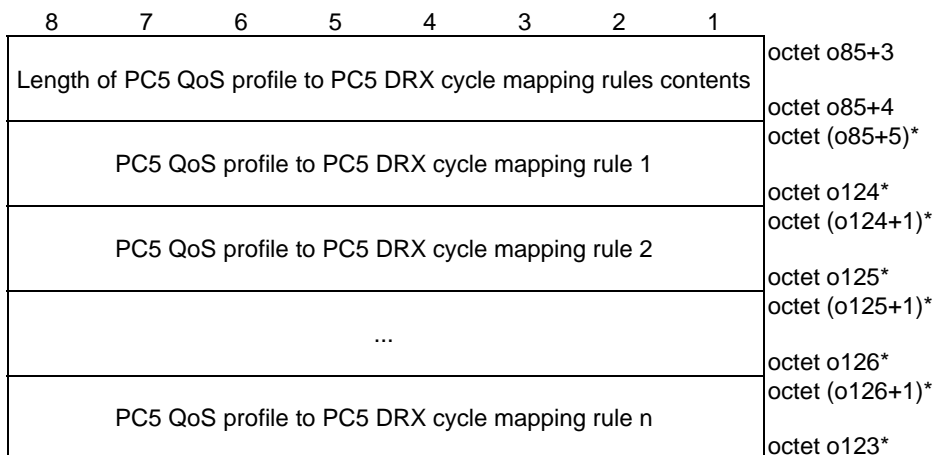
**Figure 5.3.1.55: PC5 DRX configuration for broadcast, groupcast and unicast initial signalling**

**Table 5.3.1.55: PC5 DRX configuration for broadcast, groupcast and unicast initial signalling**

PC5 QoS profile to PC5 DRX cycle mapping rules:  
 The PC5 QoS profile to PC5 DRX cycle mapping rules field is coded according to figure 5.3.1.56 and table 5.3.1.56.

Default PC5 DRX configuration:  
 The default PC5 DRX configuration field is coded according to figure 5.3.1.58 and table 5.3.1.58.

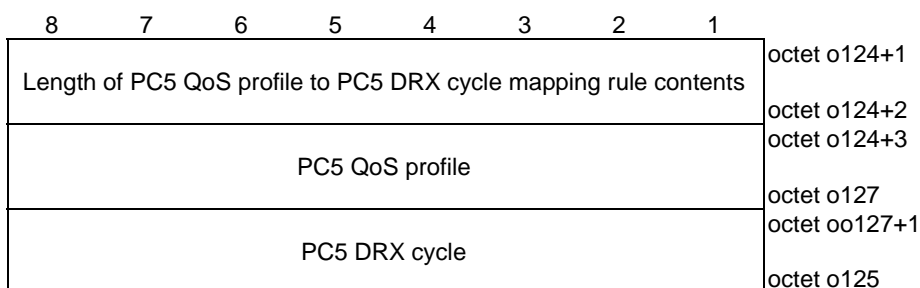
If the length of PC5 DRX configuration for broadcast, groupcast and unicast initial signalling contents field indicates a length bigger than indicated in figure 5.3.1.55, receiving entity shall ignore any superfluous octets located at the end of the PC5 DRX configuration for broadcast, groupcast contents and unicast initial signalling.



**Figure 5.3.1.56: PC5 QoS profile to PC5 DRX cycle mapping rules**

**Table 5.3.1.56: PC5 QoS profile to PC5 DRX cycle mapping rules**

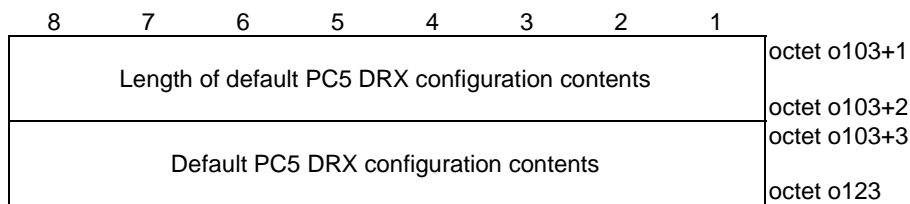
PC5 QoS profile to PC5 DRX cycle mapping rule:  
 The PC5 QoS profile to PC5 DRX cycle mapping rule field is coded according to figure 5.3.1.57 and table 5.3.1.57.



**Figure 5.3.1.57: PC5 QoS profile to PC5 DRX cycle mapping rule**

**Table 5.3.1.57: PC5 QoS profile to PC5 DRX cycle mapping rule**

<p>PC5 QoS profile: The PC5 QoS profile field is coded according to figure 5.3.1.49 and table 5.3.1.49.</p> <p>PC5 DRX cycle The PC5 DRX cycle field is coded as <i>sl-DRX-GC-BC-Cycle-r17</i> in clause 6.3.5 of 3GPP TS 38.331 [12].</p> <p>If the length of PC5 QoS profile to PC5 DRX cycle mapping rule contents field indicates a length bigger than indicated in figure 5.3.1.z, receiving entity shall ignore any superfluous octets located at the end of the PC5 QoS profile to PC5 DRX cycle mapping rule contents.</p>
--



**Figure 5.3.1.58: Default PC5 DRX configuration**

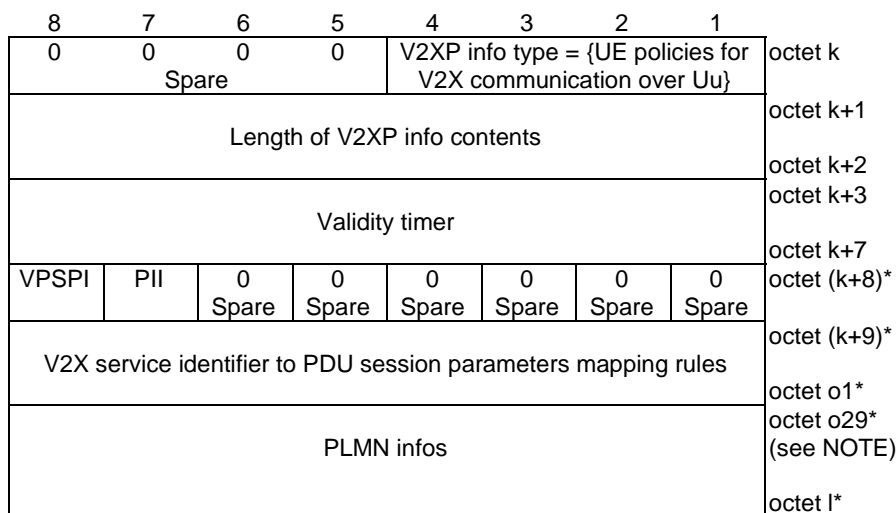
**Table 5.3.1.58: Default PC5 DRX configuration**

<p>Default PC5 DRX configuration contents: The default PC5 DRX configuration field is coded as <i>sl-DefaultDRX-GC-BC-r17</i> in clause 6.3.5 of 3GPP TS 38.331 [12].</p>
---

## 5.4 Encoding of UE policies for V2X communication over Uu

### 5.4.1 General

The UE policies for V2X communication over Uu are coded as shown in figures 5.4.1.1 and table 5.4.1.1.

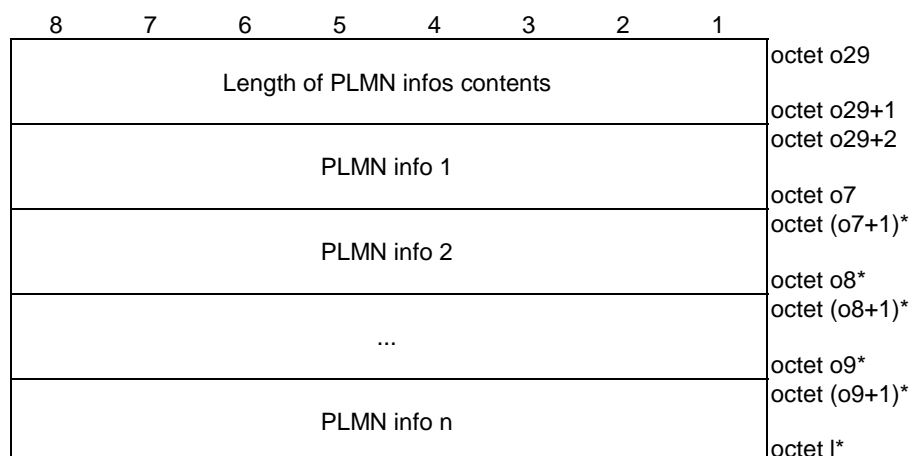


NOTE: The field is placed immediately after the last present preceding field.

**Figure 5.4.1.1: V2XP Info = {UE policies for V2X communication over Uu}**

**Table 5.4.1.1: V2XP Info = {UE policies for V2X communication over Uu}**

<p>V2XP info type (bit 1 to 4 of octet k) shall be set to "0010" (UE policies for V2X communication over Uu)</p>	
<p>Length of V2XP info contents (octets k+1 to k+2) indicates the length of V2XP info contents.</p>	
<p>Validity timer The validity timer field provides the expiration time of validity of the UE policies for V2X communication over Uu. The validity timer field is a binary coded representation of a UTC time, in seconds since midnight UTC of January 1, 1970 (not counting leap seconds).</p>	
<p>V2X service identifier to PDU session parameters mapping rules indicator (VPSPI) The VPSPI bit indicates presence of the V2X service identifier to PDU session parameters mapping rules field.</p>	
Bit	
8	
0	V2X service identifier to PDU session parameters mapping rules field is absent
1	V2X service identifier to PDU session parameters mapping rules field is present
<p>PLMN infos indicator (APII) The PII bit indicates presence of the PLMN infos field.</p>	
Bit	
7	
0	PLMN infos field is absent
1	PLMN infos field is present
<p>V2X service identifier to PDU session parameters mapping rules The V2X service identifier to PDU session parameters mapping rules field is coded according to figure 5.4.1.17 and table 5.4.1.17.</p>	
<p>PLMN infos The PLMN infos field is coded according to the figure 5.4.1.2 and table 5.4.1.2 and contains a list of PLMNs in which the UE is configured to use V2X communication over Uu.</p>	
<p>If the length of V2XP info contents field indicates a length bigger than indicated in figure 5.4.1.1, receiving entity shall ignore any superfluous octets located at the end of the V2XP info contents.</p>	



**Figure 5.4.1.2: PLMN infos**

**Table 5.4.1.2: PLMN infos**

<p>PLMN info The PLMN info field is coded according to figure 5.4.1.3 and table 5.4.1.3.</p>
--

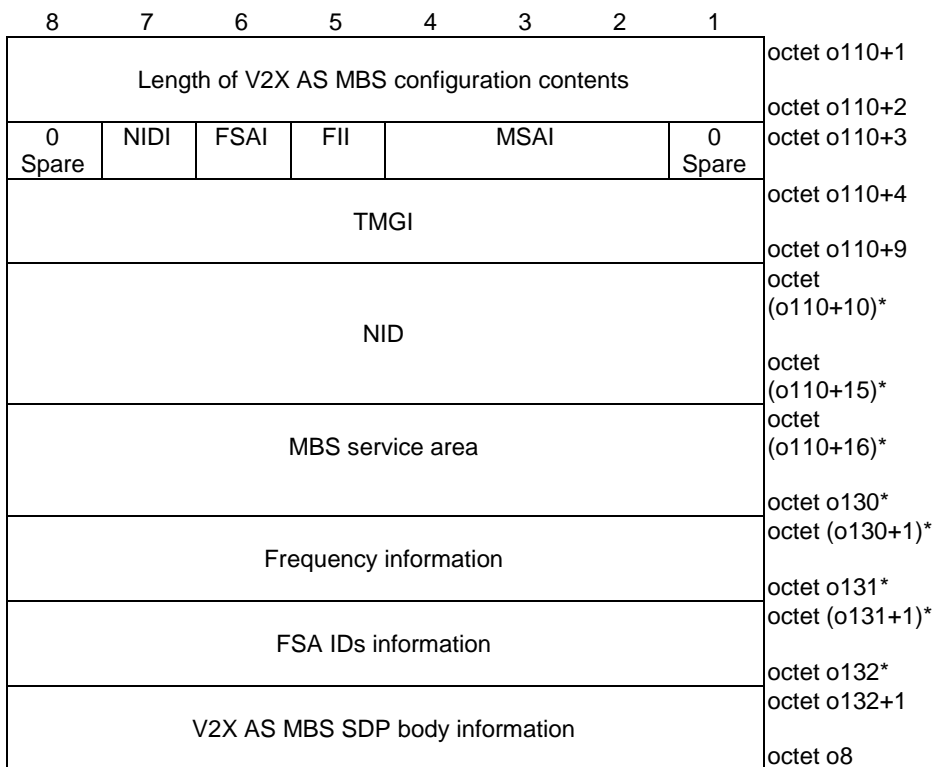
8	7	6	5	4	3	2	1	
Length of PLMN info contents								octet o7+1
PLMN IDs								octet o7+2 octet o7+3
VSIUII	VSIRII	VAMCI	0 Spare	0 Spare	0 Spare	0 Spare	0 Spare	octet o5 octet o5+1
V2X service identifier unrelated info								octet (o5+2)*
V2X service identifier related info								octet o6* octet o30* (see NOTE)
V2X AS MBS configuration								octet o110* octet (o110+1)* octet o8*

NOTE: The field is placed immediately after the last present preceding field.

**Figure 5.4.1.3: PLMN info**

**Table 5.4.1.3: PLMN info**

<p>PLMN IDs The PLMN IDs field is coded according to figure 5.4.1.4 and table 5.4.1.4.</p> <p>V2X service identifier unrelated info indicator (VSIUII) The VSIUII bit indicates presence of the V2X service identifier unrelated info field.</p> <p>Bit <b>8</b> 0 V2X service identifier unrelated info field is absent 1 V2X service identifier unrelated info field is present</p> <p>V2X service identifier related info indicator (VSIRII) The VSIRII bit indicates presence of the V2X service identifier related info field.</p> <p>Bit <b>7</b> 0 V2X service identifier related info field is absent 1 V2X service identifier related info field is present</p> <p>V2X AS MBS configuration indicator (VAMCI) The VAMCI bit indicates presence of the V2X AS MBS configuration field.</p> <p>Bit <b>6</b> 0 V2X AS MBS configuration field is absent 1 V2X AS MBS configuration field is present</p> <p>V2X service identifier unrelated info The V2X service identifier unrelated info field is coded according to figure 5.4.1.6 and table 5.4.1.6, and contains information for V2X services not identified by V2X service identifiers, applicable in a PLMN indicated in the PLMN IDs field.</p> <p>V2X service identifier related info The V2X service identifier related info field is coded according to figure 5.4.1.9 and table 5.4.1.9, and contains information for V2X services identified by V2X service identifiers, applicable in a PLMN indicated in the PLMN IDs field.</p> <p>V2X AS MBS configuration The V2X AS MBS configuration field is coded according to figure 5.4.1.3A and table 5.4.1.3A.</p> <p>If the length of PLMN info contents field indicates a length bigger than indicated in figure 5.4.1.3, receiving entity shall ignore any superfluous octets located at the end of the PLMN info contents.</p>
--

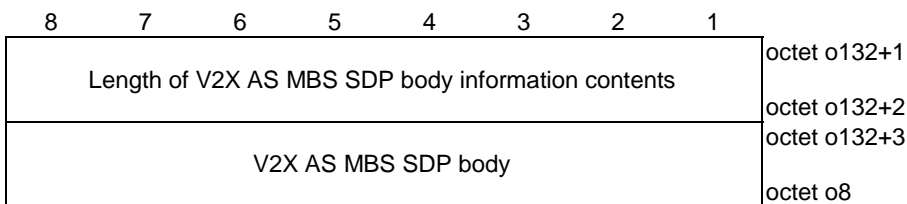


**Figure 5.4.1.3A: V2X AS MBS configuration**

**Table 5.4.1.3A: V2X AS MBS configuration**

<p>MBS service area indicator (MSAI) The MSAI indicates the format of the MBS service area</p>		
Bit		
<b>4</b>	<b>3</b>	<b>2</b>
0	0	0
0	0	1
0	1	0
0	1	1
1	0	0
<p>MBS service area not included MBS service area included as MBS TAI list MBS service area included as NR CGI list MBS service area included as MBS TAI list and NR CGI list MBS service area included as geographical area All other values are reserved.</p>		
<p>Frequency information indicator (FII) The FII bit indicates presence of the frequency information field</p>		
Bit		
<b>5</b>		
0	Frequency information field is absent	
1	Frequency information field is present	
<p>FSA IDs information indicator (FSAI) The FSAI bit indicates presence of the FSA IDs information field</p>		
Bit		
<b>6</b>		
0	FSA IDs information field is absent	
1	FSA IDs information field is present	
<p>NID indicator (NIDI) The NIDI bit indicates presence of the NID field</p>		
Bit		
<b>7</b>		
0	NID field is absent	
1	NID field is present	
<p>TMGI The TMGI field contains the TMGI of the MBS service and is coded as the TMGI field defined in clause 10.5.6.13 of 3GPP TS 24.008 [Refxx] starting from octet 3.</p>		
<p>NID The NID field contains the NID of an SNPN, and is coded as the NID field defined in clause 9.2.7 of 3GPP TS 24.502 [Refyy] starting from octet 3.</p>		
<p>MBS service area The MBS service area field contains the information that identifies the service area of the MBS service. When the MSAI field is set to "MBS service area included as MBS TAI list", "MBS service area included as NR CGI list" or "MBS service area included as MBS TAI list and NR CGI list", the MBS service area field is coded as the MBS service area field defined in 3GPP TS 24.501 [4]. When the MSAI field is set to "MBS service area included as geographical area", the MBS service area field is coded as the geographical area field according to figure 5.4.1.15 and table 5.4.1.15.</p>		
<p>Frequency information The frequency information field contains the information of the MBS frequency and is coded according to figure 5.4.1.8C and table 5.4.1.8C.</p>		
<p>FSA IDs information The FSA IDs information field contains the list of the MBS frequency selection area IDs (MBS FSA IDs) and is coded according to figure 5.4.1.8D and table 5.4.1.8D.</p>		
<p>V2X AS MBS SDP body information The V2X AS MBS SDP body information field contains the information of the V2X AS MBS configuration SDP and is coded according to figure 5.4.1.3B and table 5.4.1.3B.</p>		

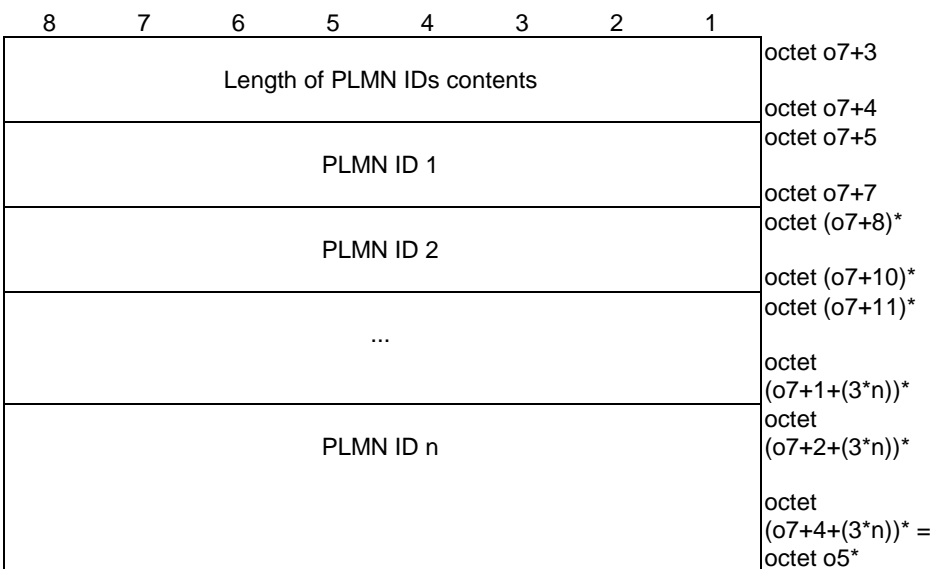




**Figure 5.4.1.3B: V2X AS MBS SDP body information**

**Table 5.4.1.3B: V2X AS MBS SDP body information**

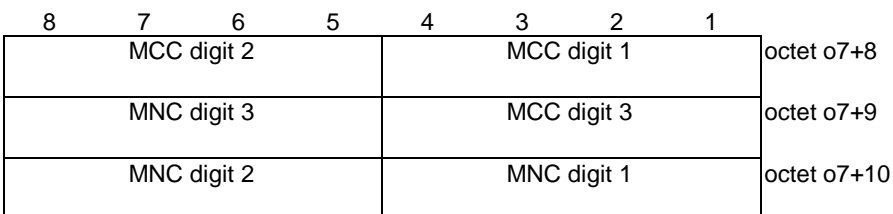
V2X AS MBS SDP body  
 The V2X AS MBS SDP body field contains the encoding of the V2X AS MBS configuration SDP as defined in 3GPP TS 24.587 [3].



**Figure 5.4.1.4: PLMN IDs**

**Table 5.4.1.4: PLMN IDs**

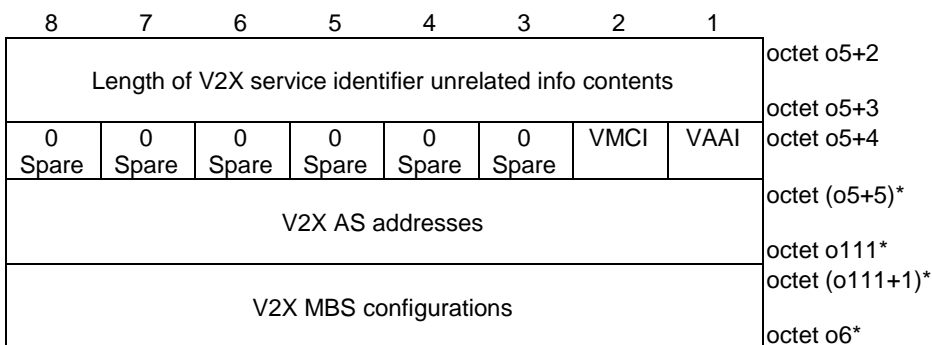
PLMN ID  
 The PLMN ID field is coded according to figure 5.4.1.5 and table 5.4.1.5.



**Figure 5.4.1.5: PLMN ID**

**Table 5.4.1.5: PLMN ID**

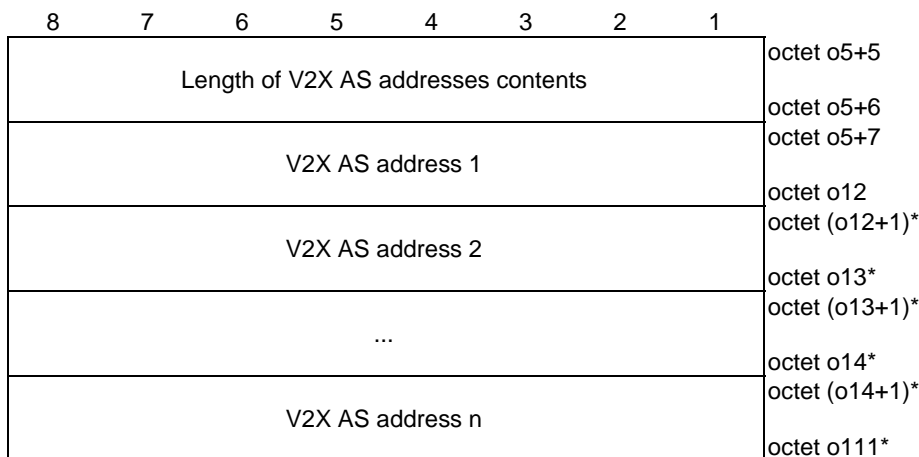
<p>Mobile country code (MCC) The MCC field is coded as in ITU-T Recommendation E.212 [6], annex A.</p> <p>Mobile network code (MNC) The coding of MNC field is the responsibility of each administration but BCD coding shall be used. The MNC shall consist of 2 or 3 digits. If a network operator decides to use only two digits in the MNC, MNC digit 3 shall be coded as "1111".</p>
---



**Figure 5.4.1.6: V2X service identifier unrelated info**

**Table 5.4.1.6: V2X service identifier unrelated info**

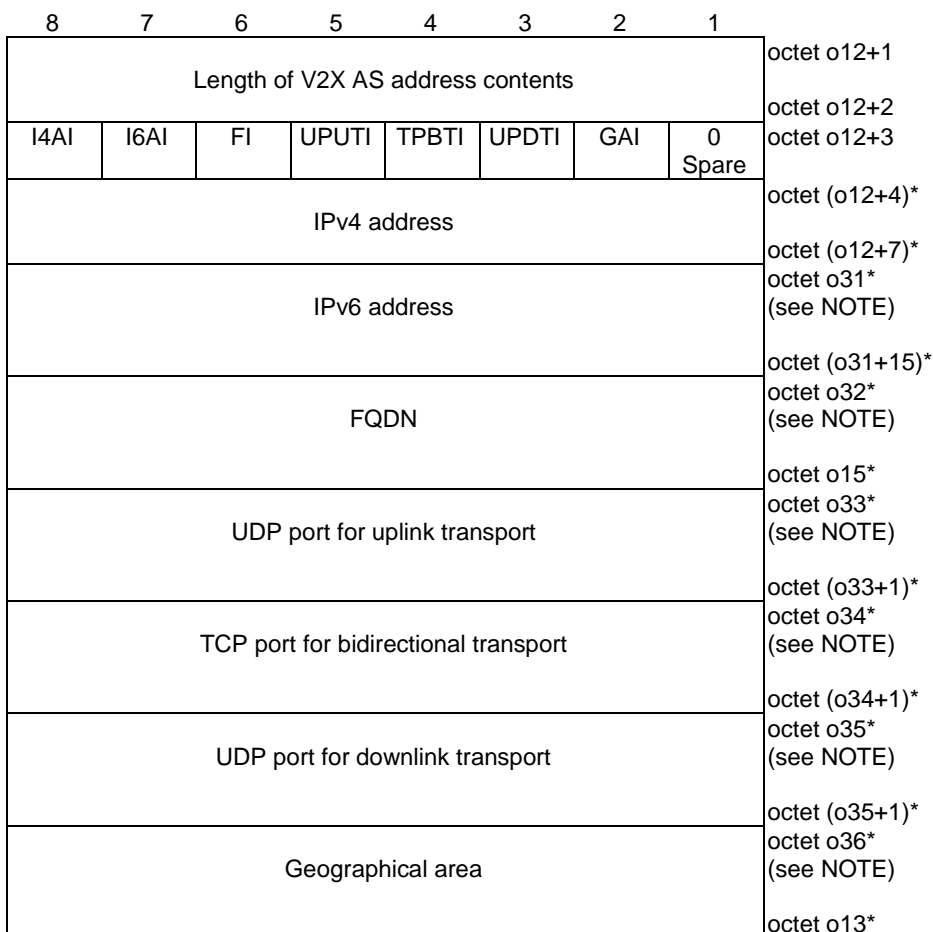
<p>V2X AS address indicator (VAAI) The VAAI bit indicates presence of the V2X AS address field. Bit <b>1</b> 0 V2X AS address field is absent 1 V2X AS address field is present</p> <p>V2X MBS configurations indicator (VMCI) The VMCI bit indicates presence of the V2X MBS configurations field. Bit <b>2</b> 0 V2X MBS configurations field is absent 1 V2X MBS configurations field is present</p> <p>V2X AS addresses The V2X AS addresses field is coded according to figure 5.4.1.7 and table 5.4.1.7.</p> <p>V2X MBS configurations The V2X MBS configurations field is coded according to figure 5.4.1.8A and table 5.4.1.8A and indicates V2X MBS configurations for receiving V2X communication over Uu via MBS.</p> <p>If the length of V2X service identifier unrelated info contents field indicates a length bigger than indicated in figure 5.4.1.6, receiving entity shall ignore any superfluous octets located at the end of the V2X service identifier unrelated info contents.</p>
--



**Figure 5.4.1.7: V2X AS addresses**

**Table 5.4.1.7: V2X AS addresses**

V2X AS address  
 The V2X AS address field is coded according to figure 5.4.1.8 and table 5.4.1.8.



NOTE: The field is placed immediately after the last present preceding field.

**Figure 5.4.1.8: V2X AS address**

**Table 5.4.1.8: V2X AS address**

<p>IPv4 Address Indicator (I4AI) The I4AI bit indicates presence of the IPv4 address field. Bit <b>8</b> 0 IPv4 address field is absent 1 IPv4 address field is present</p> <p>IPv6 Address Indicator (I6AI) The I6AI bit indicates presence of the IPv6 address field. Bit <b>7</b> 0 IPv6 address field is absent 1 IPv6 address field is present</p> <p>FQDN Indicator (FI) The FI bit indicates presence of the FQDN field. Bit <b>6</b> 0 FQDN field is absent 1 FQDN field is present</p> <p>UDP Port for Uplink Transport Indicator (UPUTI) The UPUI bit indicates presence of the UDP port for uplink transport field. Bit <b>5</b> 0 UDP port for uplink transport field is absent 1 UDP port for uplink transport field is present</p> <p>TCP Port for Bidirectional Transport Indicator (TPBTI) The TPBTI bit indicates presence of the TCP port for bidirectional transport field. Bit <b>4</b> 0 TCP port for bidirectional transport field is absent 1 TCP port for bidirectional transport field is present</p> <p>UDP Port for Downlink Transport Indicator (UPUTI) The UPUTI bit indicates presence of the UDP port for downlink transport field. Bit <b>3</b> 0 UDP port for downlink transport field is absent 1 UDP port for downlink transport field is present</p> <p>Geographical Area Indicator (GAI) The GAI bit indicates presence of the geographical area field. Bit <b>2</b> 0 geographical area field is absent 1 geographical area field is present</p> <p>IPv4 address (NOTE 2) The IPv4 address field contains an IPv4 address of a V2X application server.</p> <p>IPv6 address (NOTE 2) The IPv6 address field contains an IPv6 address of a V2X application server.</p> <p>FQDN (NOTE 2) The FQDN field contains an FQDN of a V2X application server. The first octet of the FQDN field indicates length of the FQDN and the remaining octets of the FQDN field contain the FQDN.</p> <p>UDP port for uplink transport (NOTE 1) The UDP port for uplink transport field indicates binary coded UDP port to be used for uplink transport.</p> <p>TCP port for bidirectional transport (NOTE 1) The TCP port for bidirectional transport field indicates binary coded TCP port to be used for bidirectional transport.</p>
---

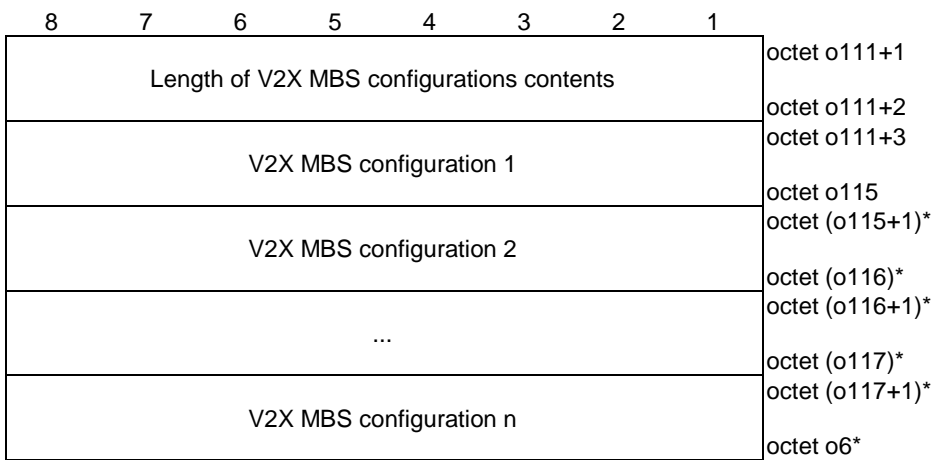
UDP port for downlink transport (NOTE 1)  
 The UDP port for downlink transport field indicates binary coded UDP port to be used for downlink transport.

Geographical area  
 The Geographical area field is coded according to figure 5.4.1.15 and table 5.4.1.15, and contains a list of points of a polygon.

If the length of V2X AS address contents field indicates a length bigger than indicated in figure 5.4.1.8, receiving entity shall ignore any superfluous octets located at the end of the V2X AS address contents.

NOTE 1: The UDP port for uplink transport field, the TCP port for bidirectional transport field, and the UDP port for downlink transport field are absent when the V2X AS address is present in the V2X service identifier unrelated info.

NOTE 2: One of the IPv4 address field, the IPv6 address field or the FQDN field is present.



**Figure 5.4.1.8A: V2X MBS configurations**

**Table 5.4.1.8A: V2X MBS configurations**

V2X MBS configuration  
 The V2X MBS configuration field is coded according to figure 5.4.1.8B and table 5.4.1.8B.

Length of V2X MBS configuration contents						octet o111+3	
Length of V2X MBS configuration contents						octet o111+4	
0 Spare	NIDI	FSAI	FII	MSAI		MST	octet o111+5
TMGI						octet o111+6	
NID						octet o111+11	
MBS service area						octet (o111+12)*	
MBS service area						octet (o111+17)*	
MBS service area						octet (o111+18)*	
Frequency information						octet o119*	
Frequency information						octet (o119+1)*	
FSA IDs information						octet o128*	
FSA IDs information						octet (o128+1)*	
V2X MBS configuration SDP body information						octet o129*	
V2X MBS configuration SDP body information						octet o129+1	
V2X MBS configuration SDP body information						octet o115	

**Figure 5.4.1.8B: V2X MBS configuration**

**Table 5.4.1.8B: V2X MBS configuration**



**MBS service type (MST)**

The MST indicates the type of the MBS service

Bit

**1**

- 0 Broadcast MBS service
- 1 Multicast MBS service

**MBS service area indicator (MSAI)**

The MSAI indicates the format of the MBS service area

Bit

**4 3 2**

- 0 0 0 MBS service area not included
  - 0 0 1 MBS service area included as MBS TAI list
  - 0 1 0 MBS service area included as NR CGI list
  - 0 1 1 MBS service area included as MBS TAI list and NR CGI list
  - 1 0 0 MBS service area included as geographical area
- All other values are reserved.

**Frequency information indicator (FII)**

The FII bit indicates presence of the frequency information field

Bit

**5**

- 0 Frequency information field is absent
- 1 Frequency information field is present

**FSA IDs information indicator (FSAI)**

The FSAI bit indicates presence of the FSA IDs information field

Bit

**6**

- 0 FSA IDs information field is absent
- 1 FSA IDs information field is present

**NID indicator (NIDI)**

The NIDI bit indicates presence of the NID field

Bit

**7**

- 0 NID field is absent
- 1 NID field is present

**TMGI**

The TMGI field contains the TMGI of the MBS service and is coded as the TMGI field defined in clause 10.5.6.13 of 3GPP TS 24.008 [Refxx] starting from octet 3.

**NID**

The NID field contains the NID of an SNPN, and is coded as the NID field defined in clause 9.2.7 of 3GPP TS 24.502 [Refyy] starting from octet 3.

**MBS service area**

The MBS service area field contains the information that identifies the service area of the MBS service. When the MSAI field is set to "MBS service area included as MBS TAI list", "MBS service area included as NR CGI list" or "MBS service area included as MBS TAI list and NR CGI list", the MBS service area field is coded as the MBS service area field defined in 3GPP TS 24.501 [4]. When the MSAI field is set to "MBS service area included as geographical area", the MBS service area field is coded as the geographical area field according to figure 5.4.1.15 and table 5.4.1.15.

**Frequency information**

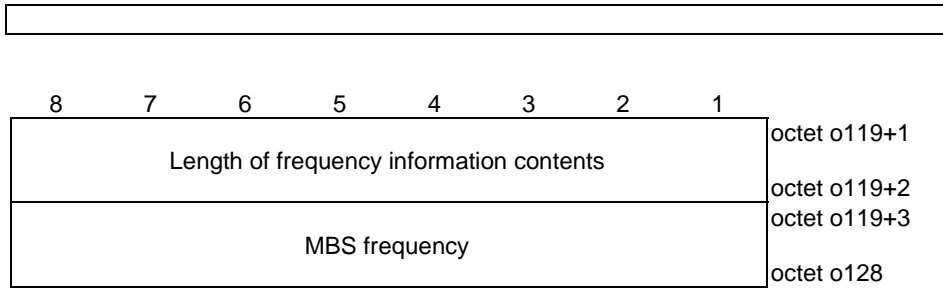
The frequency information field contains the information of the MBS frequency and is coded according to figure 5.4.1.8C and table 5.4.1.8C.

**FSA IDs information**

The FSA IDs information field contains the list of the MBS frequency selection area IDs (MBS FSA IDs) and is coded according to figure 5.4.1.8D and table 5.4.1.8D.

**V2X MBS configuration SDP body information**

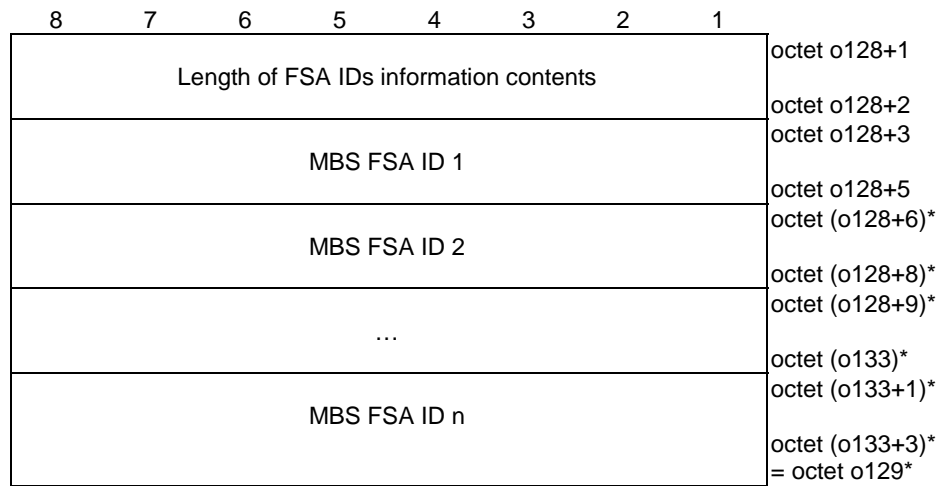
The V2X MBS configuration SDP body information field contains the information of the V2X MBS configuration SDP and is coded according to figure 5.4.1.8E and table 5.4.1.8E.



**Figure 5.4.1.8C: Frequency information**

**Table 5.4.1.8C: Frequency information**

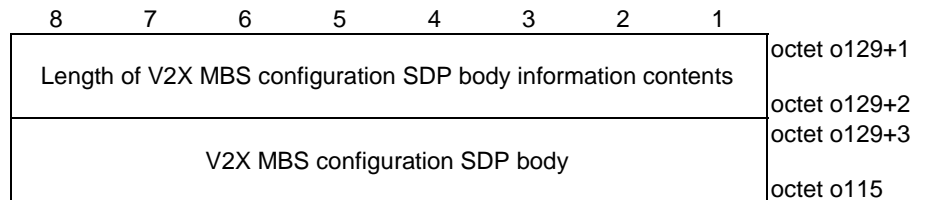
**MBS frequency**  
 The MBS frequency is coded according to the NR-ARFCN value defined in 3GPP TS 38.101-1 [14] and 3GPP TS 38.101-2 [15].



**Figure 5.4.1.8D: FSA IDs information**

**Table 5.4.1.8D: FSA IDs information**

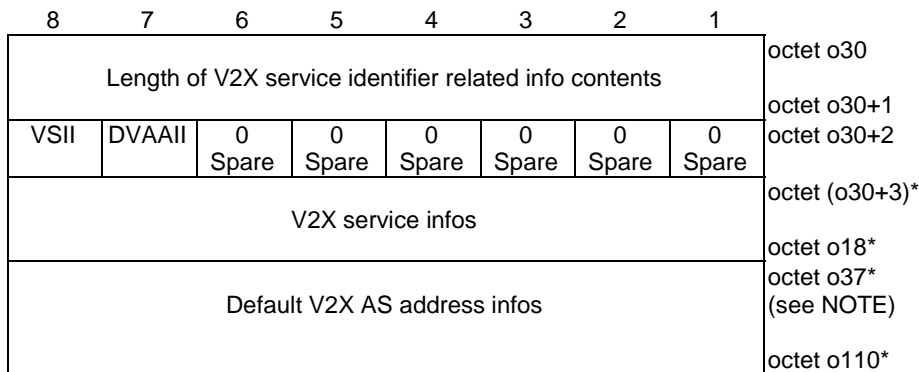
**MBS FSA ID**  
 The MBS FSA ID field contains the value of the MBS frequency selection area ID (MBS FSA ID) and is coded as defined in 3GPP TS 23.003 [17].



**Figure 5.4.1.8E: V2X MBS configuration SDP body information**

**Table 5.4.1.8E: V2X MBS configuration SDP body information**

**V2X MBS configuration SDP body**  
 The V2X MBS configuration SDP body field contains the encoding of the V2X MBS configuration SDP as defined in 3GPP TS 24.587 [3].

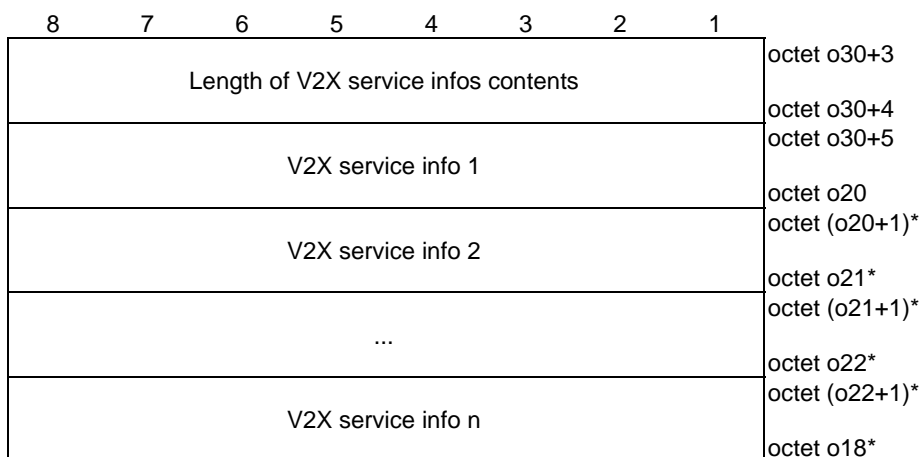


NOTE: The field is placed immediately after the last present preceding field.

**Figure 5.4.1.9: V2X service identifier related info**

**Table 5.4.1.9: V2X service identifier related info**

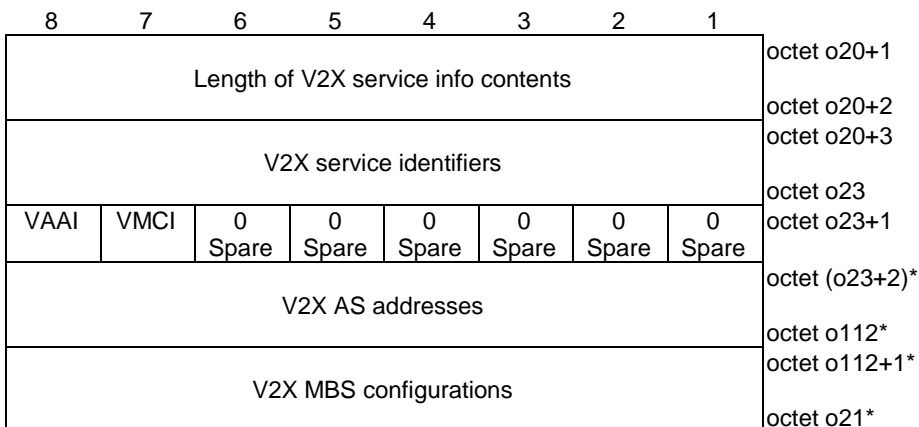
<p>V2X service infos indicator (VSII) The VSII bit indicates presence of the V2X service infos field. Bit <b>8</b> 0 V2X service infos field is absent 1 V2X service infos field is present</p> <p>Default V2X AS address infos indicator (DVAAll) The DVAAll bit indicates presence of the default V2X AS address infos field. Bit <b>7</b> 0 Default V2X AS address infos field is absent 1 Default V2X AS address infos field is present</p> <p>V2X service infos The V2X service infos field is coded according to figure 5.4.1.10 and table 5.4.1.10 and indicates a list of V2X service identifier to V2X application server address mapping rules.</p> <p>Default V2X AS address infos The default V2X AS address infos field is coded according to figure 5.4.1.13 and table 5.4.1.13 and indicates default V2X application server addresses for the unicast V2X communication over Uu.</p> <p>If the length of V2X service identifier related info contents field indicates a length bigger than indicated in figure 5.4.1.9, receiving entity shall ignore any superfluous octets located at the end of the V2X service identifier related info contents.</p>
---



**Figure 5.4.1.10: V2X service infos**

**Table 5.4.1.10: V2X service infos**

V2X service info  
The V2X service info field is coded according to figure 5.4.1.11 and table 5.4.1.11.



**Figure 5.4.1.11: V2X service info**

**Table 5.4.1.11: V2X service info**

**V2X service identifiers**  
The V2X service identifiers field is coded according to figure 5.4.1.12 and table 5.4.1.12 and indicates a list of V2X service identifier.

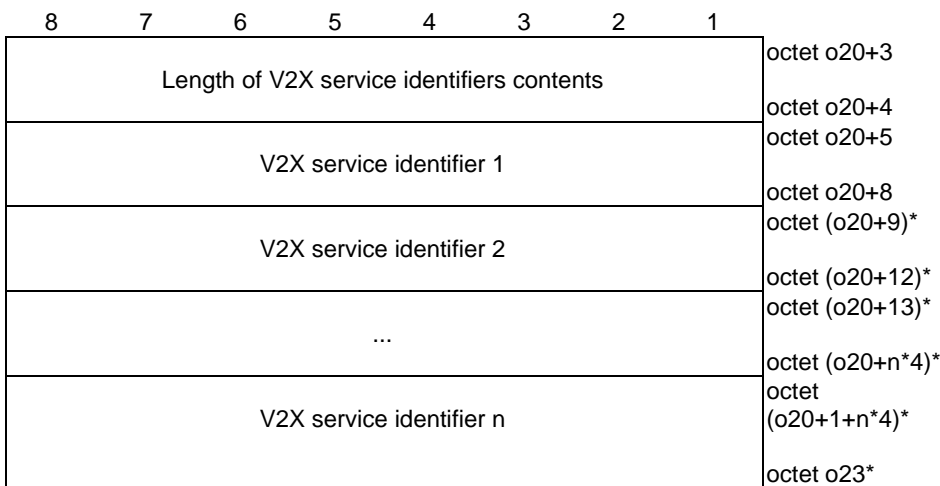
**V2X AS addresses indicator (VAAI)**  
The AVSII bit indicates presence of the V2X AS addresses field.  
Bit  
**8**  
0 V2X AS addresses field is absent  
1 V2X AS addresses field is present

**V2X MBS configurations indicator (VMCI)**  
The VMCI bit indicates presence of the V2X MBS configurations field.  
Bit  
**7**  
0 V2X MBS configurations field is absent  
1 V2X MBS configurations field is present

**V2X AS addresses**  
The V2X AS addresses field is coded according to figure 5.4.1.7 and table 5.4.1.7 and indicates V2X application server addresses for V2X services identified by the V2X service identifiers indicated in the V2X service identifiers field.

**V2X MBS configurations**  
The V2X MBS configurations field is coded according to figure 5.4.1.8A and table 5.4.1.8A and indicates V2X MBS configurations for V2X services identified by the V2X service identifiers indicated in the V2X service identifiers field.

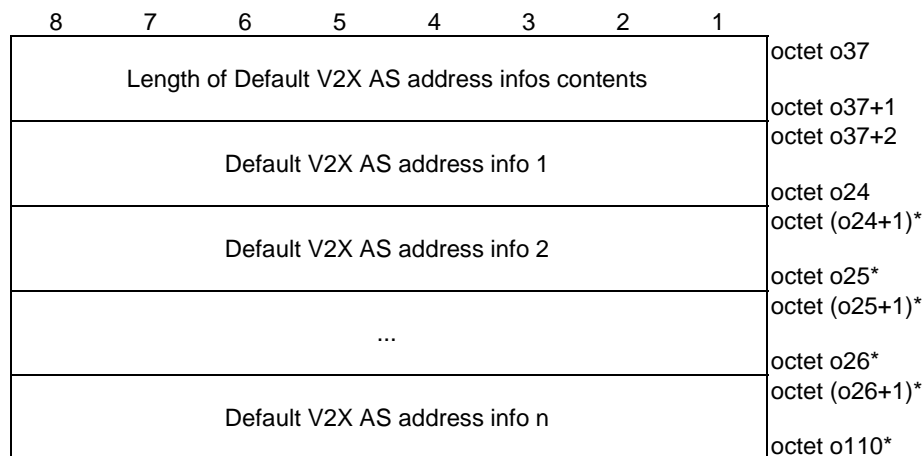
If the length of V2X service info contents field indicates a length bigger than indicated in figure 5.4.1.11, receiving entity shall ignore any superfluous octets located at the end of the V2X service info contents.



**Figure 5.4.1.12: V2X service identifiers**

**Table 5.4.1.12: V2X service identifiers**

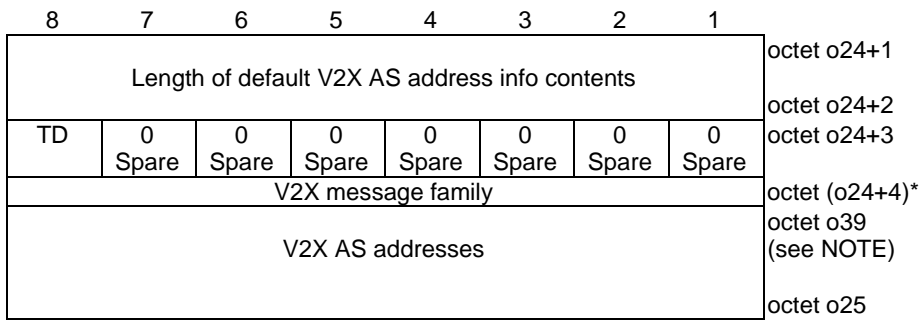
<p>V2X service identifier The V2X service identifier field contains a binary coded V2X service identifier as specified in ISO TS 17419 ITS-AID AssignedNumbers [5].</p>
---



**Figure 5.4.1.13: Default V2X AS address infos**

**Table 5.4.1.13: Default V2X AS address infos**

<p>Default V2X AS address info The default V2X AS address info field is coded according to figure 5.4.1.14 and table 5.4.1.14.</p>
--

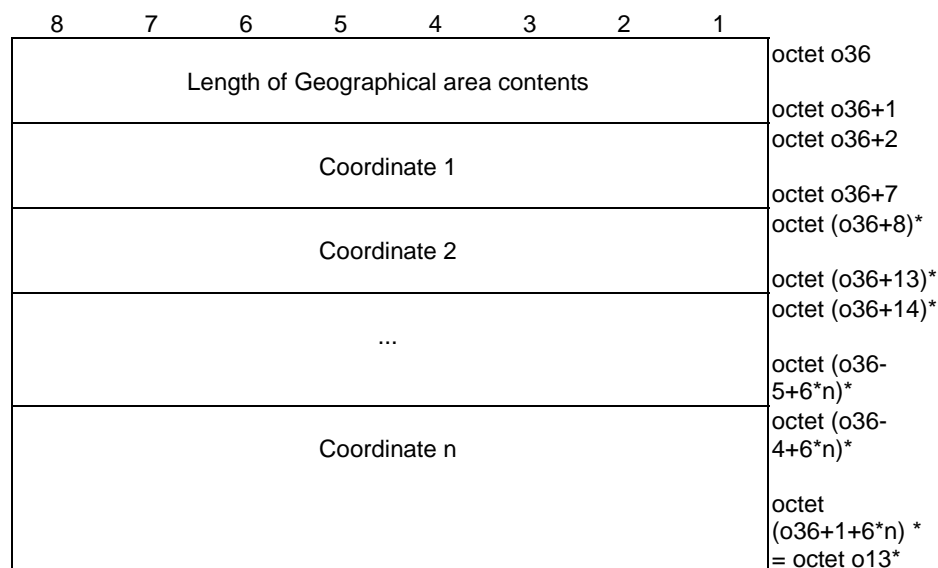


NOTE: The field is placed immediately after the last present preceding field.

**Figure 5.4.1.14: Default V2X AS address info**

**Table 5.4.1.14: Default V2X AS address info**

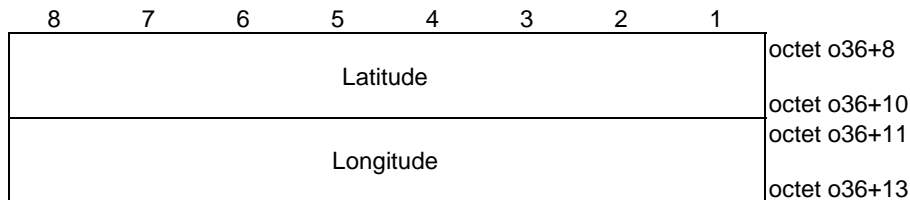
<p>Type of Data (TD) The type of data bit indicates type of data.</p> <p>Bit</p> <p><b>8</b></p> <p>0 non-IP 1 IP</p> <p>If the type of data bit is set to "non-IP", then the V2X message family field is present otherwise the V2X message family field is absent.</p> <p>V2X message family</p> <p>Bits</p> <p>8 7 6 5 4 3 2 1</p> <p>0 0 0 0 0 0 0 1 IEEE 1609, see IEEE 1609.3 [8] 0 0 0 0 0 0 1 0 ISO, see ISO 29281-1 [9] 0 0 0 0 0 0 1 1 ETSI-ITS, see ETSI EN 302 636-3 [10] All other values are spare.</p> <p>V2X AS addresses</p> <p>The V2X AS addresses field is coded according to figure 5.4.1.7 and table 5.4.1.7 and indicates V2X application server addresses for type of data identified by the TD bit and the V2X message family (if the type of data is non-IP).</p> <p>If the length of default V2X AS address info contents field indicates a length bigger than indicated in figure 5.4.1.14, receiving entity shall ignore any superfluous octets located at the end of the default V2X AS address info contents.</p>
---



**Figure 5.4.1.15: Geographical area**

**Table 5.4.1.15: Geographical area**

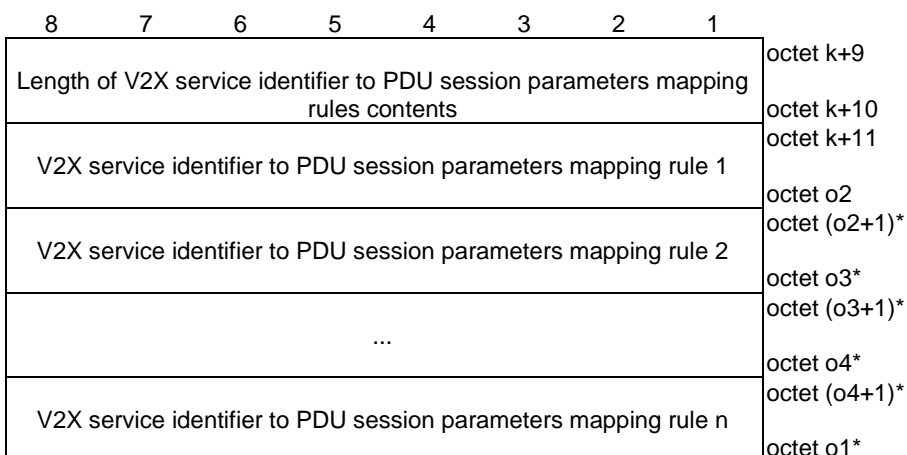
<p>Coordinate The coordinate field is coded according to figure 5.4.1.16 and table 5.4.1.16.</p>
--



**Figure 5.4.1.16: Coordinate area**

**Table 5.4.1.16: Coordinate area**

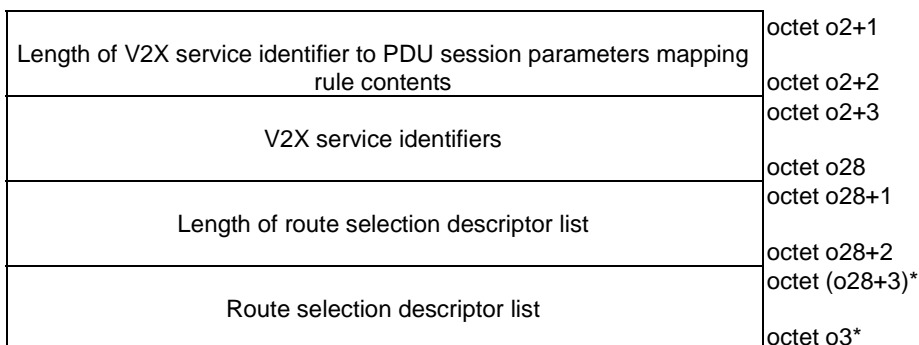
<p>Latitude The latitude field is coded according to clause 6.1 of 3GPP TS 23.032 [7].</p> <p>Longitude The longitude field is coded according to clause 6.1 of 3GPP TS 23.032 [7].</p>
---



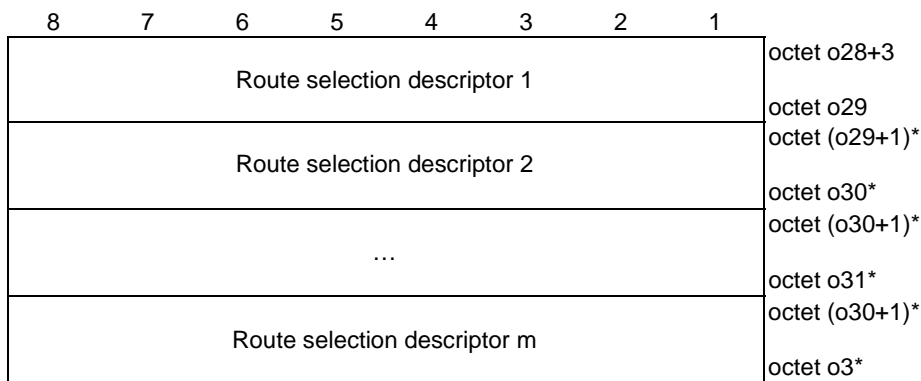
**Figure 5.4.1.17: V2X service identifier to PDU session parameters mapping rules**

**Table 5.4.1.17: V2X service identifier to PDU session parameters mapping rules**

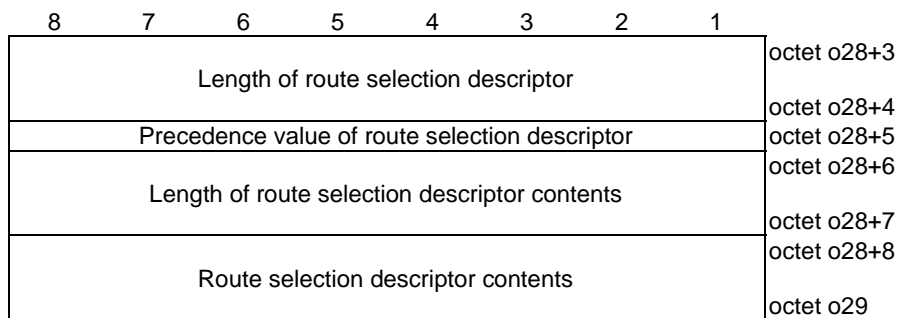
<p>V2X service identifier to PDU session parameters mapping rule The V2X service identifier to PDU session parameters mapping rule field is coded according to figure 5.4.1.18 and table 5.4.1.18.</p>
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**Figure 5.4.1.18: V2X service identifier to PDU session parameters mapping rule**



**Figure 5.4.1.19: Route selection descriptor list**



**Figure 5.4.1.20: Route selection descriptor**



**Table 5.4.1.18: V2X service identifier to PDU session parameters mapping rule**

<p>V2X service identifiers</p> <p>The V2X service identifiers field is coded according to figure 5.4.1.12 and table 5.4.1.12 and indicates a list of V2X service identifier.</p> <p>Route selection descriptor contents (octets o28+8 to o29)</p> <p>The route selection descriptor contents field is of variable size and contains a variable number (at least one) of route selection descriptor components. Each route selection descriptor component shall be encoded as a sequence of a one octet route selection descriptor component type identifier and a route selection descriptor component value field. The route selection descriptor component type identifier shall be transmitted first.</p> <p>Route selection descriptor component type identifier</p> <p>Bits</p> <table> <tr> <td>8</td><td>7</td><td>6</td><td>5</td><td>4</td><td>3</td><td>2</td><td>1</td><td></td> </tr> <tr> <td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>1</td><td>SSC mode type</td> </tr> <tr> <td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>1</td><td>0</td><td></td><td>S-NSSAI type</td> </tr> <tr> <td>0</td><td>0</td><td>0</td><td>0</td><td>1</td><td>0</td><td>0</td><td></td><td>DNN type</td> </tr> <tr> <td>0</td><td>0</td><td>0</td><td>1</td><td>0</td><td>0</td><td>0</td><td></td><td>PDU session type type</td> </tr> <tr> <td>0</td><td>0</td><td>1</td><td>0</td><td>0</td><td>0</td><td>0</td><td></td><td>Transport layer protocol type</td> </tr> </table> <p>All other values are spare. If received, they shall be ignored.</p> <p>For "SSC mode type", the route selection descriptor component value field shall be encoded as a one octet SSC mode field. The bits 8 through 4 of the octet shall be spare, and the bits 3 through 1 shall be encoded as the value part of the SSC mode information element defined in clause 9.11.4.16 of 3GPP TS 24.501 [4]. The "SSC mode type" route selection descriptor component shall not appear more than once in the route selection descriptor.</p> <p>For "S-NSSAI type", the route selection descriptor component value field shall be encoded as a sequence of a one octet S-NSSAI length field and an S-NSSAI value field of a variable size. The S-NSSAI value shall be encoded as the value part of the S-NSSAI information element defined in clause 9.11.2.8 of 3GPP TS 24.501 [4].</p> <p>For "DNN type", the route selection descriptor component value field shall be encoded as a sequence of a one octet DNN length field and a DNN value field of a variable size. The DNN value contains an APN as defined in 3GPP TS 23.003 [17].</p> <p>For "PDU session type type", the route selection descriptor component value field shall be encoded as a one octet PDU session type field. The bits 8 through 4 of the octet shall be spare, and the bits 3 through 1 shall be encoded as the value part of the PDU session type information element defined in clause 9.11.4.11 of 3GPP TS 24.501 [4]. The "PDU session type type" route selection descriptor component shall not appear more than once in the route selection descriptor.</p> <p>For "Transport layer protocol type", the route selection descriptor component value field shall be encoded as:</p> <p>Bits</p> <table> <tr> <td>8</td><td>7</td><td>6</td><td>5</td><td>4</td><td>3</td><td>2</td><td>1</td><td></td> </tr> <tr> <td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>1</td><td>UDP</td> </tr> <tr> <td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>1</td><td>0</td><td></td><td>TCP</td> </tr> </table> <p>All other values are spared.</p> <p>The "Transport layer protocol type" route selection descriptor component appears only when the "PDU session type type" appears and the PDU session type value is set to "IPv4", "IPv6" or "IPv4v6". It shall not appear more than once in the route selection descriptor.</p> <p>If the length of V2X service identifier to PDU session parameters mapping rule contents field indicates a length bigger than indicated in figure 5.4.1.18, receiving entity shall ignore any superfluous octets located at the end of the V2X service identifier to PDU session parameters mapping rule contents.</p>	8	7	6	5	4	3	2	1		0	0	0	0	0	0	0	1	SSC mode type	0	0	0	0	0	1	0		S-NSSAI type	0	0	0	0	1	0	0		DNN type	0	0	0	1	0	0	0		PDU session type type	0	0	1	0	0	0	0		Transport layer protocol type	8	7	6	5	4	3	2	1		0	0	0	0	0	0	0	1	UDP	0	0	0	0	0	1	0		TCP
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0	0	0	0	1	0	0		DNN type																																																																									
0	0	0	1	0	0	0		PDU session type type																																																																									
0	0	1	0	0	0	0		Transport layer protocol type																																																																									
8	7	6	5	4	3	2	1																																																																										
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0	0	0	0	0	1	0		TCP																																																																									

## Annex A (informative): Change history

Change history							
Date	Meeting	TDoc	CR	Rev	Cat	Subject/Comment	New version
2019-05	CT1#117	C1-193478				Draft skeleton provided in C1-193478 by the rapporteur.	0.0.0
2019-05	CT1#117					Implementing the following p-CR agreed by CT1: C1-193479	0.1.0
2019-09	CT1#119					Implementing the following p-CRs agreed by CT1: C1-194553, C1-194847, C1-194849 and C1-194850	0.2.0
2019-10	CT1#120					Implementing the following p-CRs agreed by CT1: C1-196493	0.3.0
2019-12	CT#86	CP-193157				Presentation for information at TSG CT	1.0.0
2019-12	CT#86	CP-193290				A title corrected	1.0.1
2020-03	CT1#122-e					Implementing the following p-CR agreed by CT1: C1-200652, C1-200933 and C1-200936	1.1.0
2020-03	CT-87e	CP-200174				Presentation for approval at TSG CT	2.0.0
2020-03	CT-87e					Version 16.0.0 created after approval	16.0.0
2020-06	CT-88e	CP-201116	0001	2	B	NR PC5 unicast security policy provisioning	16.1.0
2020-06	CT-88e	CP-201116	0002	1	F	Clarifications on the V2X policies regarding QoS	16.1.0
2020-06	CT-88e	CP-201116	0003	1	B	Update to the V2X policies regarding RAN parameters	16.1.0
2020-06	CT-88e	CP-201116	0004	1	C	Correction of coding of configuration of PC5 RAT selection and Tx profiles	16.1.0
2020-06	CT-88e	CP-201116	0005	1	F	Correction of coding of configuration of default mode of communication	16.1.0
2020-06	CT-88e	CP-201116	0006	1	F	Correction of PC5 RAT names	16.1.0
2020-06	CT-88e	CP-201116	0007	1	F	Correction of coding of PC5 QoS mapping configuration	16.1.0
2020-06	CT-88e	CP-201116	0008	1	F	Correction in coding of PC5 QoS profile	16.1.0
2020-06	CT-88e	CP-201116	0009	1	F	Correction of coding of validity timers	16.1.0
2020-06	CT-88e	CP-201116	0010	1	F	Remove IP address from privacy timer	16.1.0
2020-09	CT-89e	CP-202248	0013	3	F	Update configuration parameters over Uu to meet stage2 requirements	16.2.0
2020-09	CT-89e	CP-202158	0014		F	Corrections in V2XP UE policy part	16.2.0
2020-09	CT-89e	CP-202158	0017		F	Correction of V2XP statement	16.2.0
2020-09	CT-89e	CP-202158	0018		F	Removal of V2X policy for EPC interworking	16.2.0
2020-09	CT-89e	CP-202041	0019	2	F	Adding the flag indicating the optional PPPP to PDB mapping rules	16.2.0
2020-09	CT-89e	CP-202039	0020	3	F	Radio parameters for UE neither served by E-UTRA nor served by NR	16.2.0
2020-12	CT-90e	CP-203189	0015	1	F	Corrections in UE policies for V2X communication over PC5	16.3.0
2020-12	CT-90e	CP-203189	0016	1	F	Corrections in UE policies for V2X communication over Uu	16.3.0
2020-12	CT-90e	CP-203189	0021	1	F	Update RAT selection rule	16.3.0
2020-12	CT-90e	CP-203189	0022	1	F	V2X service identifier	16.3.0
2020-12	CT-90e	CP-203189	0023	1	F	Some corrections on UE policies for V2X communication over PC5	16.3.0
2021-03	CT#91e	CP-210108	0024		F	Removal of Tx Profile for NR PC5	16.4.0
2022-03	CT#95e	CP-220254	0025	1	B	NR-PC5 Tx profiles	17.0.0
2022-03	CT#95e	CP-220254	0026	-	B	Adding the PC5 DRX configuration for broadcast and groupcast to the UE policies for V2X communication over PC5	17.0.0
2022-06	CT#96	CP-221216	0027	1	F	Resolving the EN related to defining the PC5 DRX configurations	17.1.0
2022-06	CT#96	CP-221216	0028	1	F	Resolving the EN related to defining the NR TX Profile	17.1.0
2022-12	CT#98e	CP-223126	0029	1	F	Add default Tx profile for initial unicast connection establishment - coding	17.2.0
2022-12	CT#98e	CP-223126	0031	1	F	Policy configuration of the PC5 DRX parameters for initial signalling of PC5 V2X unicast communication	17.2.0
2022-12	CT#98e	CP-223126	0032	1	F	Removal of duplicated Table 5.3.1.54	17.2.0
2023-09	CT#101	CP-232195	0036	-	F	Correction on octet numbering in the figure of coordinate area	18.0.0
2024-03	CT#103	CP-240126	0038	4	B	Encoding of V2X MBS configuration and V2X AS MBS configuration in the policies of V2X in 5GS	18.1.0

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# History

<b>Document history</b>		
V18.1.0	May 2024	Publication