DATEX II profile for IVI Content

ECo-AT

Version 00-01-00

* 1. Overview

This profile describes the content information for the IVI use case as described in the project ECo-AT using the VMSPublication. There is a second document describing the IVI location information.

* 1. Data Dictionary for "IVI Content Profile"
     1. "VmsMessage" package
        1. "VmsMessage" package classes

| **Class name** | **Designation** | **Definition** | **Stereotype** | **Abstract** |
| --- | --- | --- | --- | --- |
| AffectedCarriagewayAndLanes | Affected carriageway and lanes | Supplementary positional information which details carriageway and lane locations. Several instances may exist where the element being described extends over more than one carriageway |  | no |
| ExtendedVmsPictogramDisplayArea | Extended vms pictogram display area | Extension for VmsPictogramDisplayArea |  | no |
| VmsMessage | VMS message | A message displayed on a VMS which may comprise one or more sequentially displayed text pages and/or pictograms with supplementary details. When in a sequence of displayed messages sequencing of text pages and pictograms within a message are prohibited. |  | no |
| VmsPictogram | VMS pictogram | A main pictogram displayable on the VMS panel. Note a main pictogram may have an associated supplementary panel which may itself contain a further pictogram and line of text. |  | no |
| VmsPictogramDisplayArea | VMS pictogram display area | An area on a VMS used for the display of pictograms and associated supplemental information or instructions. |  | no |
| VmsSupplementaryPanel | VMS supplementary panel | A panel which may display information or a regulatory instruction which is supplemental to the associated pictogram, comprising either an additional line of text or a pictogram or both. |  | no |
| VmsSupplementaryPictogram | VMS supplementary pictogram | An additional pictogram that is displayed in the panel which is supplemental to the associated pictogram display. |  | no |
| VmsText | VMS text | A page of text (comprising one or more ordered lines) that are displayed simultaneously on the VMS. Where more than one page is defined these are sequentially displayed according to their "pageNumber". |  | no |
| VmsTextLine | VMS text line | A single line of text on a text display area or supplementary panel. |  | no |

Table 1— Classes of the "VmsMessage" package

* + - 1. "VmsMessage" package association roles

| **Class name** | **Role name** | **Designation** | **Definition** | **Multiplicity** | **Target** |
| --- | --- | --- | --- | --- | --- |
| ExtendedVmsPictogramDisplayArea | positionedOnLanes | Positioned on lanes | Lanes on which the VmsPictogramDisplayArea is positioned | 0..1 | AffectedCarriagewayAndLanes |
| VmsMessage | textPage | Text page |  | 1..1 | VmsText |
| VmsSupplementaryPanel | vmsSupplementaryText | VMS supplementary text | One line of text displayed in the panel which is supplemental to the pictogram display. | 0..1 | VmsTextLine |

Table 2— Associations of the "VmsMessage" package

* + - 1. "VmsMessage" package attributes

| **Class name** | **Attribute name** | **Designation** | **Definition** | **Multiplicity** | **Type** |
| --- | --- | --- | --- | --- | --- |
| AffectedCarriagewayAndLanes | carriageway | Carriageway | Indicates the section of carriageway to which the location relates | 1..1 | CarriagewayEnum |
|  | lane | Lane | Indicates the specific lane to which the location relates | 0..\* | LaneEnum |
|  | lengthAffected | Length affected | This indicates the length of road measured in metres affected by the associated traffic element | 0..1 | MetresAsFloat |
|  | footpath | Footpath | Indicates whether the pedestrian footpath is the subject or part of the subject of the location. (True = footpath is subject) | 0..1 | Boolean |
| VmsMessage | codedReasonForSetting | Coded reason for setting | The reason, in terms of a high level coded classification, why the sign has been set. | 0..1 | CodedReasonForSettingMessageEnum |
|  | messageSetBy | Message set by | The organisation or authority which set the message currently being displayed. | 0..1 | MultilingualString |
|  | setBySystem | Set by system | Indicates whether the message has been set automatically by a system. True = automatically set. | 0..1 | Boolean |
|  | timeLastSet | Time last set | The date/time at which the sign was last set. | 1..1 | DateTime |
|  | vmsMessageInformationType | VMS message information type | Type of information being displayed. | 0..\* | VmsMessageInformationTypeEnum |
| VmsPictogram | additionalPictogramDescription | Additional pictogram description | Additional description of the pictogram. | 0..1 | MultilingualString |
|  | distanceAttribute | Distance attribute | Value of distance that is displayable as part of the pictogram (e.g. for keep minimum safe distance). | 0..1 | MetresAsNonNegativeInteger |
|  | heightAttribute | Height attribute | Value of height that is displayable as part of the pictogram (e.g. for a vehicle height restriction). | 0..1 | MetresAsFloat |
|  | lengthAttribute | Length attribute | Value of length that is displayable as part of the pictogram (e.g. for a vehicle length restriction). | 0..1 | MetresAsFloat |
|  | pictogramCode | Pictogram code | The code of the pictogram from the pictogram code list referenced in the VmsPictogramDisplayCharacteristics for the VMS that is identified in the relevant VMS Unit table. | 0..1 | String |
|  | pictogramDescription | Pictogram description | Description of the (main) displayed pictogram. | 0..\* | VmsDatexPictogramEnum |
|  | pictogramFlashing | Pictogram flashing | Indication of whether the pictogram is flashing. | 0..1 | Boolean |
|  | pictogramUrl | Pictogram url | Reference to a URL from where an image of the displayed pictogram can be be obtained. | 0..1 | Url |
|  | presenceOfRedTriangle | Presence of red triangle | Indication of the presence of a red triangle around the pictogram, often used to indicate imminence, typically within 2km, of signed danger. | 1..1 | Boolean |
|  | speedAttribute | Speed attribute | Value of speed that is displayable as part of the pictogram (e.g. for a maximum speed limit). | 0..1 | KilometresPerHour |
|  | viennaConventionCompliant | Vienna convention compliant | Indicates that the displayed pictogram conforms with the Vienna Convention defined pictogram list as modified by "UNECE Consolidated Resolution on Road Signs and Signals". | 0..1 | Boolean |
|  | weightAttribute | Weight attribute | Value of weight that is displayable as part of the pictogram (e.g. for a maximum weight restriction). | 0..1 | Tonnes |
|  | weightPerAxleAttribute | Weight per axle attribute | Value of axle weight that is displayable as part of the pictogram (e.g. for a maximum axle weight restriction). | 0..1 | Tonnes |
|  | widthAttribute | Width attribute | Value of width that is displayable as part of the pictogram (e.g. for a vehicle width restriction). | 0..1 | MetresAsFloat |
| VmsSupplementaryPanel | supplementaryMessageDescription | Supplementary message description | Free text description of the message that is displayed in the panel which is supplemental to the main pictogram display. | 0..1 | MultilingualString |
| VmsSupplementaryPictogram | additionalSupplementaryPictogramDescription | Additional supplementary pictogram description | Additional free text description of the supplementary pictogram. | 0..1 | MultilingualString |
|  | pictogramFlashing | Pictogram flashing | Indication of whether the pictogram is flashing. | 0..1 | Boolean |
|  | supplementaryPictogramCode | Supplementary pictogram code | The code of the supplementary pictogram from the supplementary pictogram code list referenced in the VmsSupplementaryPanelCharacteristics for the VMS that is identified in the relevant VMS Unit table. | 0..1 | String |
|  | supplementaryPictogramDescription | Supplementary pictogram description | Description of the supplementary displayed pictogram. | 0..1 | VmsDatexSupplementalPictogramEnum |
|  | supplementaryPictogramUrl | Supplementary pictogram url | Reference to a URL from where an image of the displayed supplementary pictogram can be be obtained. | 0..1 | Url |
| VmsText | vmsLegendCode | VMS legend code | The code of the legend/text from the legend code list referenced in the VmsTextDisplayCharacteristics. | 0..1 | String |
| VmsTextLine | vmsTextLine | VMS text line | A free-text string that is displayed on a single line on the text display area. | 1..1 | String |
|  | vmsTextLineHtml | VMS text line html | The displayed line of text defined by an HTML string showing text formatting tags. | 0..1 | String |
|  | vmsTextLineLanguage | VMS text line language | The language of the displayed line of text, specified by an ISO 639-2 3-alpha code. | 0..1 | Language |

Table 3— Attributes of the "VmsMessage" package

* + 1. "VmsPublication" package
       1. "VmsPublication" package classes

| **Class name** | **Designation** | **Definition** | **Stereotype** | **Abstract** |
| --- | --- | --- | --- | --- |
| VmsPublication | VMS publication | A publication containing the current status and settings of one or more VMS units, each unit controlling one or more individual variable message signs. |  | no |

Table 4— Classes of the "VmsPublication" package

* + - 1. "VmsPublication" package association roles

There are no defined association roles in the "VmsPublication" package.

* + - 1. "VmsPublication" package attributes

There are no defined attributes in the "VmsPublication" package.

* + 1. "VmsUnit" package
       1. "VmsUnit" package classes

| **Class name** | **Designation** | **Definition** | **Stereotype** | **Abstract** |
| --- | --- | --- | --- | --- |
| Vms | Vms | Provides the current status and settings of the VMS and the currently displayed information. Where a VMS is displaying a sequence or alternating set of messages these are ordered according to the messageIndex qualifier. |  | no |
| VmsUnit | VMS unit | Status of a VMS unit which may control one or more variable message signs on a single gantry or on different gantries. |  | no |

Table 5— Classes of the "VmsUnit" package

* + - 1. "VmsUnit" package association roles

There are no defined association roles in the "VmsUnit" package.

* + - 1. "VmsUnit" package attributes

| **Class name** | **Attribute name** | **Designation** | **Definition** | **Multiplicity** | **Type** |
| --- | --- | --- | --- | --- | --- |
| Vms | vmsWorking | VMS working | Indicates whether the VMS is usable. Note it may still be usable with minor faults. | 1..1 | Boolean |
| VmsUnit | vmsUnitReference | VMS unit reference | A reference to a versioned VMS unit record in a VMS Unit table which defines the characteristics of the VMS unit. | 1..1 | VersionedReference |
|  | vmsUnitTableReference | VMS unit table reference | A reference to a versioned VMS Unit table. | 1..1 | VersionedReference |

Table 6— Attributes of the "VmsUnit" package

* 1. Data Dictionary of <<datatypes>> for "IVI Content Profile"

This clause contains the definitions of all data types which are used in the "IVI Content Profile".

* + 1. The <<datatype>> "KilometresPerHour"

A measure of speed defined in kilometres per hour.

* + 1. The <<datatype>> "MetresAsFloat"

A measure of distance defined in metres in a floating point format.

* + 1. The <<datatype>> "MetresAsNonNegativeInteger"

A measure of distance defined in metres in a non-negative integer format.

* + 1. The <<datatype>> "Tonnes"

A measure of weight defined in metric tonnes.

* 1. Data Dictionary of <<enumerations>> for "IVI Content Profile"

This clause contains the definitions of all enumerations which are used in the "IVI Content Profile".

* + 1. The <<enumeration>> "CarriagewayEnum"

List of descriptors identifying specific carriageway details.

| **Enumerated value name** | **Designation** | **Definition** |
| --- | --- | --- |
| mainCarriageway | Main carriageway | On the main carriageway. |
| slipRoads | Slip roads | On the slip roads. |

Table 7— Values contained in the enumeration "CarriagewayEnum"

* + 1. The <<enumeration>> "CodedReasonForSettingMessageEnum"

Coded reasons why a message has been selected for display on the sign.

| **Enumerated value name** | **Designation** | **Definition** |
| --- | --- | --- |
| campaign | Campaign | VMS is currently selected to display a campaign message. |
| default | Default | VMS is currently selected to display default information (e.g. time, date, temperature). |
| operatorCreated | Operator created | Message selected by operator as the result of an unmanaged event or situation. |
| situation | Situation | Message selected as the result of a situation occuring either on or off the road which may affect road users. |
| trafficManagement | Traffic management | Message selected as part of the implementation of a traffic management action. This may or may not be part of a specific traffic management or diversion plan. |
| travelTime | Travel time | VMS is currently selected to display travel times. |

Table 8— Values contained in the enumeration "CodedReasonForSettingMessageEnum"

* + 1. The <<enumeration>> "LaneEnum"

| **Enumerated value name** | **Designation** | **Definition** |
| --- | --- | --- |
| allLanesCompleteCarriageway | All lanes complete carriageway | In all lanes of the carriageway. |
| emergencyLane | Emergency lane | In the emergency lane. |
| hardShoulder | Hard shoulder | On the hard shoulder. |
| lane1 | Lane1 | In the first lane numbered from nearest the hard shoulder to central median. |
| lane2 | Lane2 | In the second lane numbered from nearest the hard shoulder to central median. |
| lane3 | Lane3 | In the third lane numbered from nearest the hard shoulder to central median. |
| lane4 | Lane4 | In the fourth lane numbered from nearest the hard shoulder to central median. |
| lane5 | Lane5 | In the fifth lane numbered from nearest the hard shoulder to central median. |
| lane6 | Lane6 | In the sixth lane numbered from nearest the hard shoulder to central median. |
| middleLane | Middle lane | In the middle lane. |
| turningLane | Turning lane | In the turning lane. |

Table 9— Values contained in the enumeration "LaneEnum"

* + 1. The <<enumeration>> "VmsDatexPictogramEnum"

Types of main pictograms.

| **Enumerated value name** | **Designation** | **Definition** |
| --- | --- | --- |
| accident | Accident | Accident. |
| advisorySpeed | Advisory speed | Advisory speed limit. |
| blankVoid | Blank void | Blank or void. |
| carriagewayNarrows | Carriageway narrows | The carriageway narrows ahead. |
| carriagewayNarrowsOnTheLeft | Carriageway narrows on the left | The carriageway narrows ahead from the left. |
| carriagewayNarrowsOnTheRight | Carriageway narrows on the right | The carriageway narrows ahead from the right. |
| crossWind | Cross wind | Cross wind. |
| endOfProhibitionOfOvertaking | End of prohibition of overtaking | End of prohibition of overtaking. |
| endOfProhibitionOfOvertakingForGoodsVehicles | End of prohibition of overtaking for goods vehicles | End of prohibition of overtaking for goods vehicles. |
| endOfSpeedLimit | End of speed limit | End of mandatory speed limit. |
| fog | Fog | Fog. |
| keepASafeDistance | Keep a safe distance | Keep a safe distance. |
| keepLeft | Keep left | Keep left. |
| keepRight | Keep right | Keep right. |
| laneClosed | Lane closed | Lane closed. |
| lightSignals | Light signals | Traffic light signals ahead. |
| looseGravel | Loose gravel | Loose gravel. |
| maintenanceVehicleInAction | Maintenance vehicle in action | Maintenance vehicles in action. |
| noEntry | No entry | No entry. |
| noEntryForGoodsVehicles | No entry for goods vehicles | No entry for goods vehicles. |
| noEntryForVehiclesCarryingDangerousGoods | No entry for vehicles carrying dangerous goods | No entry for vehicles carrying dangerous goods. |
| noEntryForVehiclesExceedingXTonnesLadenMass | No entry for vehicles exceeding x tonnes laden mass | No entry for vehicles exceeding X tonnes laden mass. |
| other | Other | Other than as defined in this enumeration. |
| otherDangers | Other dangers | Danger ahead of an unspecified nature. |
| overtakingByGoodsVehiclesProhibited | Overtaking by goods vehicles prohibited | Overtaking prohibited for goods vehicles. |
| overtakingProhibited | Overtaking prohibited | Overtaking prohibited. |
| pollutionOrSmogAlert | Pollution or smog alert | Pollution or smog alert. |
| roadworks | Roadworks | Roadworks. |
| slipperyRoad | Slippery road | Slippery road. |
| snow | Snow | Snow. |
| snowChainsCompulsory | Snow chains compulsory | The use of snow chains is compulsory. |
| trafficCongestion | Traffic congestion | Traffic congestion and possible queues. |
| tunnelClosed | Tunnel closed | Tunnel closed. |
| twoWayTraffic | Two way traffic | Two way traffic (on a single carriageway). |
| unevenRoad | Uneven road | Uneven road surface. |

Table 10— Values contained in the enumeration "VmsDatexPictogramEnum"

* + 1. The <<enumeration>> "VmsDatexSupplementalPictogramEnum"

Types of pictograms displayable in supplementary panels (normally below the main pictogram display which it qualifies).

| **Enumerated value name** | **Designation** | **Definition** |
| --- | --- | --- |
| distanceToTheBeginningofTheApplicationZone | Distance to the beginningof the application zone | Distance to the beginning of the application zone. |
| lengthOfTheApplicationZone | Length of the application zone | Length of the applicable zone. |
| other | Other | Other than as defined in this enumeration. |
| restricetdToBus | Restricetd to bus | Restricted to buses. |
| restrictedToGoodsVehicles | Restricted to goods vehicles | Restricted to goods vehicles. |

Table 11— Values contained in the enumeration "VmsDatexSupplementalPictogramEnum"

* + 1. The <<enumeration>> "VmsMessageInformationTypeEnum"

Types of information displayable on a VMS.

| **Enumerated value name** | **Designation** | **Definition** |
| --- | --- | --- |
| campaignMessage | Campaign message | Campaign type information which is non time specific that may request certain actions (e.g. "do not drink and drive") or which is intended to influence drivers' behaviour. |
| dateTime | Date time | Current date and/or time information. |
| futureInformation | Future information | Information which may inform road users about future situations which potentially may cause congestion or influence future travel plans (e.g. future roadworks, closures, sporting events, public concerts, suspension of train or ferry services). |
| instructionOrMessage | Instruction or message | Instructions or messages to road users which are relevant at the current time, (e.g. "do not throw out any burning objects" or an Amber alert message). |
| situationWarning | Situation warning | Information warning of a current situation likely to affect traffic on the road ahead. |
| temperature | Temperature | Temperature information. |
| trafficManagement | Traffic management | Information comprising traffic management instructions. |
| travelTime | Travel time | Travel time information. |

Table 12— Values contained in the enumeration "VmsMessageInformationTypeEnum"

* 1. Alphabetical list of attributes

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Attribute name** | **Class name** | **Designation** | **Definition** | **Multiplicity** | **Type** |
| additionalPictogramDescription | VmsPictogram | Additional pictogram description | Additional description of the pictogram. | 0..1 | MultilingualString |
| additionalSupplementaryPictogramDescription | VmsSupplementaryPictogram | Additional supplementary pictogram description | Additional free text description of the supplementary pictogram. | 0..1 | MultilingualString |
| carriageway | AffectedCarriagewayAndLanes | Carriageway | Indicates the section of carriageway to which the location relates | 1..1 | CarriagewayEnum |
| codedReasonForSetting | VmsMessage | Coded reason for setting | The reason, in terms of a high level coded classification, why the sign has been set. | 0..1 | CodedReasonForSettingMessageEnum |
| distanceAttribute | VmsPictogram | Distance attribute | Value of distance that is displayable as part of the pictogram (e.g. for keep minimum safe distance). | 0..1 | MetresAsNonNegativeInteger |
| footpath | AffectedCarriagewayAndLanes | Footpath | Indicates whether the pedestrian footpath is the subject or part of the subject of the location. (True = footpath is subject) | 0..1 | Boolean |
| heightAttribute | VmsPictogram | Height attribute | Value of height that is displayable as part of the pictogram (e.g. for a vehicle height restriction). | 0..1 | MetresAsFloat |
| lane | AffectedCarriagewayAndLanes | Lane | Indicates the specific lane to which the location relates | 0..\* | LaneEnum |
| lengthAffected | AffectedCarriagewayAndLanes | Length affected | This indicates the length of road measured in metres affected by the associated traffic element | 0..1 | MetresAsFloat |
| lengthAttribute | VmsPictogram | Length attribute | Value of length that is displayable as part of the pictogram (e.g. for a vehicle length restriction). | 0..1 | MetresAsFloat |
| messageSetBy | VmsMessage | Message set by | The organisation or authority which set the message currently being displayed. | 0..1 | MultilingualString |
| pictogramCode | VmsPictogram | Pictogram code | The code of the pictogram from the pictogram code list referenced in the VmsPictogramDisplayCharacteristics for the VMS that is identified in the relevant VMS Unit table. | 0..1 | String |
| pictogramDescription | VmsPictogram | Pictogram description | Description of the (main) displayed pictogram. | 0..\* | VmsDatexPictogramEnum |
| pictogramFlashing | VmsPictogram | Pictogram flashing | Indication of whether the pictogram is flashing. | 0..1 | Boolean |
| pictogramFlashing | VmsSupplementaryPictogram | Pictogram flashing | Indication of whether the pictogram is flashing. | 0..1 | Boolean |
| pictogramUrl | VmsPictogram | Pictogram url | Reference to a URL from where an image of the displayed pictogram can be be obtained. | 0..1 | Url |
| presenceOfRedTriangle | VmsPictogram | Presence of red triangle | Indication of the presence of a red triangle around the pictogram, often used to indicate imminence, typically within 2km, of signed danger. | 1..1 | Boolean |
| setBySystem | VmsMessage | Set by system | Indicates whether the message has been set automatically by a system. True = automatically set. | 0..1 | Boolean |
| speedAttribute | VmsPictogram | Speed attribute | Value of speed that is displayable as part of the pictogram (e.g. for a maximum speed limit). | 0..1 | KilometresPerHour |
| supplementaryMessageDescription | VmsSupplementaryPanel | Supplementary message description | Free text description of the message that is displayed in the panel which is supplemental to the main pictogram display. | 0..1 | MultilingualString |
| supplementaryPictogramCode | VmsSupplementaryPictogram | Supplementary pictogram code | The code of the supplementary pictogram from the supplementary pictogram code list referenced in the VmsSupplementaryPanelCharacteristics for the VMS that is identified in the relevant VMS Unit table. | 0..1 | String |
| supplementaryPictogramDescription | VmsSupplementaryPictogram | Supplementary pictogram description | Description of the supplementary displayed pictogram. | 0..1 | VmsDatexSupplementalPictogramEnum |
| supplementaryPictogramUrl | VmsSupplementaryPictogram | Supplementary pictogram url | Reference to a URL from where an image of the displayed supplementary pictogram can be be obtained. | 0..1 | Url |
| timeLastSet | VmsMessage | Time last set | The date/time at which the sign was last set. | 1..1 | DateTime |
| viennaConventionCompliant | VmsPictogram | Vienna convention compliant | Indicates that the displayed pictogram conforms with the Vienna Convention defined pictogram list as modified by "UNECE Consolidated Resolution on Road Signs and Signals". | 0..1 | Boolean |
| vmsLegendCode | VmsText | VMS legend code | The code of the legend/text from the legend code list referenced in the VmsTextDisplayCharacteristics. | 0..1 | String |
| vmsMessageInformationType | VmsMessage | VMS message information type | Type of information being displayed. | 0..\* | VmsMessageInformationTypeEnum |
| vmsTextLine | VmsTextLine | VMS text line | A free-text string that is displayed on a single line on the text display area. | 1..1 | String |
| vmsTextLineHtml | VmsTextLine | VMS text line html | The displayed line of text defined by an HTML string showing text formatting tags. | 0..1 | String |
| vmsTextLineLanguage | VmsTextLine | VMS text line language | The language of the displayed line of text, specified by an ISO 639-2 3-alpha code. | 0..1 | Language |
| vmsUnitReference | VmsUnit | VMS unit reference | A reference to a versioned VMS unit record in a VMS Unit table which defines the characteristics of the VMS unit. | 1..1 | VersionedReference |
| vmsUnitTableReference | VmsUnit | VMS unit table reference | A reference to a versioned VMS Unit table. | 1..1 | VersionedReference |
| vmsWorking | Vms | VMS working | Indicates whether the VMS is usable. Note it may still be usable with minor faults. | 1..1 | Boolean |
| weightAttribute | VmsPictogram | Weight attribute | Value of weight that is displayable as part of the pictogram (e.g. for a maximum weight restriction). | 0..1 | Tonnes |
| weightPerAxleAttribute | VmsPictogram | Weight per axle attribute | Value of axle weight that is displayable as part of the pictogram (e.g. for a maximum axle weight restriction). | 0..1 | Tonnes |
| widthAttribute | VmsPictogram | Width attribute | Value of width that is displayable as part of the pictogram (e.g. for a vehicle width restriction). | 0..1 | MetresAsFloat |

Table 13- Alphabetical list of attributes

* 1. Alphabetical list of roles

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Role name** | **Class name** | **Designation** | **Definition** | **Multiplicity** | **Target** |
| positionedOnLanes | ExtendedVmsPictogramDisplayArea | Positioned on lanes | Lanes on which the VmsPictogramDisplayArea is positioned | 0..1 | AffectedCarriagewayAndLanes |
| textPage | VmsMessage | Text page |  | 1..1 | VmsText |
| vmsSupplementaryText | VmsSupplementaryPanel | VMS supplementary text | One line of text displayed in the panel which is supplemental to the pictogram display. | 0..1 | VmsTextLine |

Table 14- Alphabetical list of roles

* 1. Figures



Figure 1: IVI Content



Figure 2: Additional pictogram descriptions