

Message Validator

- 1.) Specify the Data Encoding of the message being validated.
- 2.) Select the Message Type of the message being validated. Auto-detect will do its best to determine what type of message the data is, but will not work for all messages. If a message is a sub-type of another message type, then the highest level will be identified. For example, a Frame+TIM message is of message type MessageFrame, but MessageFrame is a sub-type of ServiceRequest.

Connected Vehicle Message Validator

Unified Model Architecture Using J2735 3/2016

SEMI ASN.1 Specification Version: 2.3

Data Encoding: Hex

Message Type: Auto-detect message type

File to upload:

Browse... No file selected.

or drop files here

or paste the contents of your file here

001f51201000000002faa2f3c080729dc1f3347392a5e2400000006fc23e8fa1682000025000011d4ee0f9a39c952f1200002dc0098e7253342770805818e7253df27707e2318e7254b8e7707b81000400218

Validate Clear

gov.usdot.asn1.generated.j2735.semi.ServiceRequest

value ServiceRequest ::= {
 dialogID vehSIDData,
 seqID svcReq,
 groupID "FAB80080" H,
 requestID "00000000" H
}

Connected Vehicle Message Validator

Unified Model Architecture Using J2735 3/2016

SEMI ASN.1 Specification Version: 2.3

Data Encoding: Hex

Message Type: MessageFrame

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001f51201000000002faa2f3c080729dc1f3347392a5e2400000006fc23e8fa1682000025000011d4ee0f9a39c952f1200002dc0098e7253342770805818e7253df27707e2318e7254b8e7707b81000400218

Validate Clear

gov.usdot.asn1.generated.j2735.dsrc.MessageFrame

value MessageFrame ::= {
 messageID S1,
 value TravelerInformation : {
 msgCnt 1,
 packetID "0000000002FAA2F3C" H,
 dataFrames {

If a message is failing to validate, switching the Message Type from Auto-detect to the specific message type could allow the validator to properly decode the message or provide a more specific error message to the issues with the message.

- 3.) To specify the message, you can browse the file system for the message file, drag and drop the message file unto the box with the dotted line border, or enter the contents of the file in the provided text area.

[Help](#)

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Data Encoding: Hex

Message Type: Auto-detect message type

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001f512010000000002faa2f3c080729dc1f3347392a5e2400000006fc23e8fa1682000025000011d4ee0f9a39c952f1200002dc0098e7253342770805818e7253df27707e2318e7254b8e7707b81000400218

Validate

Clear

Your input message type will be displayed here.

Your validation results will be displayed here.

- 4.) Hit the **Validate** button to validate the message.
 - If the message is valid, the text areas at the bottom will change to green. The fully qualified message type and decoded value will be displayed within the text areas.

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SEMI ASN.1 Specification Version: 2.3

Data Encoding: Hex

Message Type: MessageFrame

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001f512010000000002faa2f3c080729dc1f3347392a5e2400000006fc23e8fa1682000025000011d4ee0f9a39c952f1200002dc0098e7253342770805818e7253df27707e2318e7254b8e7707b81000400218

Validate

Clear

gov.usdot.asn1.generated.j2735.dsnc.MessageFrame

```
value MessageFrame := {
  messageID 01,
  value TravelerInformation : {
    msgCnt 1,
    packetID '0000000002FAA2F3C',
    dataFrames {
      {
        sspTimRights 0,
        frameType advisory,
        msgId roadSignID : {
          position {
            lat 455568816
```

- If the message is not valid, the text areas at the bottom will change to red. A brief error message as well as a more detailed error message will be displayed within the text areas.

Unified Model Architecture Using J2735 3/2016

SEMI ASN.1 Specification Version: 2.3

Data Encoding: Hex

Message Type: SPAT

File to upload:

No file selected.

or drop files here

or paste the contents of your file here

001f51201000000002fa2f3c080729dc1f5347392a5e240000006fc23e8fa1682000025000011d4ee0f99a39c95211200002dc0098e7253342770805818e7253df27707e2318e7254b8e7707b81000400218

field 'minEndTime' (type: TimeMark) of field 'timing' (type: TimeChangeDetails) of element #1 (type: MovementEvent) of field 'state-time-speed' (type: MovementEventList) of element #1 (type: MovementState) of field 'states' (type: MovementList) of element #1 (type: IntersectionState) of

Error: Failed to validate message. Reason: D00625: Value range constraint violated: 36488
field 'minEndTime' (type: TimeMark) of field 'timing' (type: TimeChangeDetails) of element #1 (type: MovementEvent) of field 'state-time-speed' (type: MovementEventList) of element #1 (type: MovementState) of field 'states' (type: MovementList) of element #1 (type: IntersectionState) of field 'intersections' (type: IntersectionStateList) of PDU 'SPAT'
value SPAT := {
 intersections {
 {
 id {
 id 41538
 }
 }
 }
}