

FieldName	Length	Description of the data
Protocol Version	4 Bit	The version of the IdsM protocol
Protocol Header	4 Bit	IdsM protocol header information: Bit[0]: 0 - No Context Data Frame included, 1 - Context Data Frame included Bit[1]: 0 - No Timestamp included, 1 - Timestamp included Bit[2]: 0 - No Signature Frame included, 1 - Signature Frame included Bit[3]: reserved
IdsM Instance Id	10 Bit	Unique identifier of the sending IdsMinstance 0-1023
Module Instance Id	6 Bit	Identifier to differ between multiple instances of modules
Event Id	16 Bit	Unique identifier of a Security Event: Range of AUTOSAR internal IDs: 0...0x7FFF Range of Customer specific IDs: 0x8000...0xFFFF
Count	16 Bit	Number of IdsM calls which result in the current event after processing the configured filter, e.g. <i>EventAggregation</i>
Reserve	8 Bit	Reserved for future use
Timestamp	8 Bytes	Timestamp / Tickstamp when event was detected: (optional) Byte[0] Bit[7]=0: AUTOSAR Standard, Byte[0] Bit[6]: reserved Byte[0] Bit[7]=1: OEM Specific / Custom Timestamp Resolution in ms. Maybe not necessary for every event type. If not set, field is filled by IdsR. If not authentic time, IdsR might recalculate the time and insert a new value
Context Data Version	2 Bytes	Version of the IDS Context Data. To distinguish different versions (optional) Context Data Version Byte[0], Bit [7]=0: Original reported Context Data Context Data Version Byte[0], Bit [7]=1: Context Data provided by user callout
Context Data Length	1 or 4 Bytes	Length information of Context Data. Only available if Context Data exists (optional) Most Significant Bit of first byte Context Data signals if Context Data Length is encoded in 7 Bit or 31 Bit: Context Data Length Byte[0] Bit[7]=0: Length is encoded in 7 Bits - Context Data Length Byte[0] Bit[0..6] - Valid values: 1..127 Bytes Context Data Length Byte[0] Bit[7]=1: Length is encoded in 31 Bits - Context Data Length Byte[0] Bit[0..6], Byte[1..3] Bit[0..7] - Valid values:1..(2^31) - 1 Bytes Note: The 2 Bytes for Context Data is not included in the Context Data Length)
Context Data	1...(2^31) -1 Bytes	Binary blob attached by the sensor: (optional) Modelled context data provided by corresponding sensor components
Signature Length	2 Bytes	Length information of Signature. Only available if Signature exists. (optional) Signature Byte[0..1]: Signature Length 1..65535 Bytes
Signature	1..65535 Bytes	Signature for authentication of security event: (option) Signature calculated with Eventframe + Optional Timestamp + Optional Context Data Signature Byte[2..n]: Signature Data - configurable via MetaModel