Engines and Vehicles Compliance Information System (EV-CIS)
**Log of XML Schema Changes Made for
Light-Duty Release 37.1 – 1/10/2025**

Purpose

This document identifies modifications for Release 37.1 to the EV-CIS Light-Duty (LD) family of schemas.

LD Modified XML Files

EN_VER_LD_CTD_FuelPropertiesSubmissionRootElement_v0.9.xsd
EN_VER_LD_CTD_TestInformationSubmissionRootElement_v0.9.xsd
EN_VER_LD_FE_SharedDataElements_v0.9.xsd
EN_VER_LD_SharedDataElements_v0.9.xsd

EN_VER_LD_CTD_FuelPropertiesSubmissionRootElement_v0.9.xsd
- The complex data type FuelSpecificationsDetailsType was changed as follows:
    - Data element CarbonMassFractionMeasure [0.000 to 1.000 (FP-19)] was added with cardinality to (0,1).
    - Data element NetHeatCombustionMeasure [MJ/kg, 35.000 to 50.000 (LD-FP18)] was added with cardinality (0,1).

EN_VER_LD_CTD_TestInformationSubmissionRootElement_v0.9.xsd
- The complex data type FuelSpecificationsDetailsType was changed as follows:
    - Data element CarbonMassFractionMeasure [0.000 to 1.000 (FP-19)] was added with cardinality to (0,1).
    - Data element NetHeatCombustionMeasure [MJ/kg, 35.000 to 50.000 (LD-FP18)] was added with cardinality (0,1).

XML Shared Data Element and Data Type File Modifications

EN_VER_LD_FE_SharedDataElements_v0.9.xsd

The following data element updates were implemented:

- The annotation for data element TestResultIdentifier was changed to "Enumeration of 60 identifiers (FE-IT28)."

The following data type updates were implemented:
- Data type TestResultIdentifierType [Enumeration of 60 identifiers type definition] was updated as follows:
    - 'CH4 BAG 1' [Bag 1 Methane] was added.
    - 'CH4 BAG 2' [Bag 2 Methane] was added.
    - 'CH4 BAG 3' [Bag 3 Methane] was added.
    - 'CH4 BAG 4' [Bag 4 Methane] was added.
    - 'CO BAG 1' [Bag 1 Carbon Monoxide] was added.
    - 'CO BAG 2' [Bag 2 Carbon Monoxide] was added.
    - 'CO BAG 3' [Bag 3 Carbon Monoxide] was added.
    - 'CO BAG 4' [Bag 4 Carbon Monoxide] was added.
    - 'NMOG BAG 1' [Bag 1 Non-methane organic gases] was added.
    - 'NMOG BAG 2' [Bag 2 Non-methane organic gases] was added.
    - 'NMOG BAG 3' [Bag 3 Non-methane organic gases] was added.
    - 'NMOG BAG 4' [Bag 4 Non-methane organic gases] was added.

EN_VER_LD_SharedDataElements_v0.9.xsd

The following data element updates were implemented:

- The annotation for data element TestResultIdentifier was changed to "Enumeration of 60 identifiers (LD-TG209,225,SI59,71,TI19)."
- Data element CarbonMassFractionMeasure [0.000 to 1.000 (FP-19)] was added with data type Decimal4Point3NonNegativeMax1Type.
- Data element NetHeatCombustionMeasure [MJ/kg, 35.000 to 50.000 (LD-FP18)] was added with data type NetHeatCombustionMeasureType.

The following data type updates were implemented:
- Data type NetHeatCombustionMeasureType [35.000 to 50.000 type definition] was added.
- Data type TestResultIdentifierType [Enumeration of 60 identifiers type definition] was updated as follows:
    - 'CH4 BAG 1' [Bag 1 Methane] was added.
    - 'CH4 BAG 2' [Bag 2 Methane] was added.
    - 'CH4 BAG 3' [Bag 3 Methane] was added.
    - 'CH4 BAG 4' [Bag 4 Methane] was added.
    - 'CO BAG 1' [Bag 1 Carbon Monoxide] was added.
    - 'CO BAG 2' [Bag 2 Carbon Monoxide] was added.
    - 'CO BAG 3' [Bag 3 Carbon Monoxide] was added.
    - 'CO BAG 4' [Bag 4 Carbon Monoxide] was added.
    - 'NMOG BAG 1' [Bag 1 Non-methane organic gases] was added.
    - 'NMOG BAG 2' [Bag 2 Non-methane organic gases] was added.
    - 'NMOG BAG 3' [Bag 3 Non-methane organic gases] was added.
    - 'NMOG BAG 4' [Bag 4 Non-methane organic gases] was added.