Engines and Vehicles Compliance Information System (EV-CIS)

Log of XML Schema Changes Made for
Light-Duty Release 29.0 – 03/27/2020

Purpose

This document identifies modifications for Release 29.0 to the Engines and Vehicles Compliance Information System (EV-CIS) Light-Duty (LD) family of schemas.

LD Modified Files

EN_VER_LD_CTD_TestInformationSubmissionRootElement_v0.9.xsd
EN_VER_LD_FE_SharedDataElements_v0.9.xsd

EN_VER_LD_CTD_TestInformationSubmissionRootElement_v0.9.xsd

- The complex data type PHEVChargeDepletingTestInformationDetailsType was modified as follows:
  - Data element PHEVChargeDepletingTestTransitionBagPhaseNumber [1 to 99 (LD-TI18.1.1)] was added with cardinality (0,1).
  - Data element PHEVChargeDepletingTestAllElectricRangeUnadjustedMeasure [Miles, 0.000 to 999.999 (LD-TI18.6.2)] was added with cardinality (0,1).
  - Data element PHEVChargeDepletingTestDerived5CycleCoefficientModelYearIdentifier [YYYY (LD-TI18.6.3)] was added with cardinality (0,1).
- The complex data type EPAGeneratedTestInformationDetailsType was modified as follows:
  - Complex data element EPAGeneratedPHEVChargeDepletingTestDetails [EPAGeneratedPHEVChargeDepletingTestDetails] was added with cardinality (0,1).
- The complex data type EPAGeneratedPHEVChargeDepletingTestDetailsType was added as follows:
  - Data element PHEVChargeDepletingRangeUnadjustedValue [Miles, 0.000 to 999.999 (LD-TI46)] was added with cardinality (0,1).
  - Data element PHEVChargeDepletingRangeAdjustedValue [Miles, 0.000 to 999.999 (LD-TI47)] was added with cardinality (0,1).
  - Data element PHEVChargeDepletingAllElectricRangeAdjustedValue [Miles, 0.000 to 999.999 (LD-TI48)] was added with cardinality (0,1).
  - Data element PHEVChargeDepletingACElectricityConsumptionUnadjustedValue [0.0 to 99999.9 (LD-TI49)] was added with cardinality (0,1).
  - Data element PHEVChargeDepletingACElectricityConsumptionRateAdjustedValue [0.000 to 9.999 (LD-TI50)] was added with cardinality (0,1).
  - Data element PHEVChargeDepletingTotalDCEnergyConsumedUnadjustedValue [0.0 to 99999.9 (LD-TI51)] was added with cardinality (0,1).
  - Data element PHEVChargeDepletingTotalFuelConsumptionUnadjustedValue [0.0000 to 99.9999 (LD-TI52)] was added with cardinality (0,1).
  - Data element PHEVChargeDepletingUtilizedTotalFuelConsumptionRateFleetUtilityFactorUnadjustedValue [0.000000 to 9.999999 (LD-TI53)] was added with cardinality (0,1).
  - Data element PHEVChargeDepletingUtilizedTotalFuelConsumptionRateMultiDayIndividualUtilityFactorAdjustedValue [0.000000 to 9.999999 (LD-TI55)] was added with cardinality (0,1).
  - Data element PHEVChargeDepletingGasolineDieselConsumptionUnadjustedValue [0.0000 to 99.9999 (LD-TI56)] was added with cardinality (0,1).

- o Data element PHEVChargeDepletingFuelEconomyAdjustedValue [0.0000 to 999.9999 (LD-TI57)] was added with cardinality (0,1).
- o Data element PHEVChargeDepletingGasolineDieselConsumptionRateAdjustedValue [0.0000 to 99.9999 (LD-TI58)] was added with cardinality (0,1).
- o Data element PHEVChargeDepletingFuelEconomyUnadjustedValue [0.0000 to 999.9999 (LD-TI59)] was added with cardinality (0,1).
- o Data element PHEVChargeDepletingACElectricityConsumptionRateUnadjustedValue [0.000 to 9.999 (LD-TI60)] was added with cardinality (0,1).
- o Data element PHEVChargeDepletingCO2EmissionsRateUnadjustedValue [0.0 to 999.9 (LD-TI61)] was added with cardinality (0,1).
- o Data element PHEVChargeDepletingCO2EmissionsRateAdjustedValue [0.0 to 999.9 (LD-TI62)] was added with cardinality (0,1).
- o Data element PHEVChargeDepletingUtilizedCO2RateAdjustedValue [0.0 to 999.9 (LD-TI63)] was added with cardinality (0,1).
- o Data element PHEVChargeDepletingUtilizedCREEUnadjustedValue [0.0 to 999.9 (LD-TI64)] was added with cardinality (0,1).
- o Data element PHEVChargeDepletingUtilizedOptCREEUnadjustedValue [0.0 to 999.9 (LD-TI66)] was added with cardinality (0,1).
- o Data element PHEVChargeDepletingFleetUtilityFactorValue [0.000 to 9.999 (LD-TI68)] was added with cardinality (0,1).
- o Data element PHEVChargeDepletingMultiDayIndividualUtilityFactorRcdaAdjustedValue [0.000 to 9.999 (LD-TI69)] was added with cardinality (0,1).
- o Data element PHEVChargeDepletingMultiDayIndividualUtilityFactorRcdcAdjustedValue [0.000 to 9.999 (LD-TI70)] was added with cardinality (0,1).

XML Shared Data Element and Data Type File Modifications

The annotation following the data element name references the corresponding data element identifiers in the data requirements (DR) spreadsheet. Note that some data elements may be used in more locations in the schemas than defined in the DR spreadsheet.

EN_VER_LD_FE_SharedDataElements_v0.9.xsd

- The following data element updates were implemented:
  - o Data element PHEVChargeDepletingTestTransitionBagPhaseNumber [1 to 99 (LD-TI18.1.1)] was added with data type Integer2DigitPositiveType.
  - o Data element PHEVChargeDepletingTestAllElectricRangeUnadjustedMeasure [Miles, 0.000 to 999.999 (LD-TI18.6.2)] was added with data type Decimal6Point3NonNegativeType.
  - o Data element PHEVChargeDepletingTestDerived5CycleCoefficientModelYearIdentifier [YYYY (LD-TI18.6.3)] was added with data type YearType.
  - o Data element PHEVChargeDepletingRangeUnadjustedValue [Miles, 0.000 to 999.999 (LD-TI46)] was added with data type Decimal6Point3NonNegativeType.
  - o Data element PHEVChargeDepletingRangeAdjustedValue [Miles, 0.000 to 999.999 (LD-TI47)] was added with data type Decimal6Point3NonNegativeType.
  - o Data element PHEVChargeDepletingAllElectricRangeAdjustedValue [Miles, 0.000 to 999.999 (LD-TI48)] was added with data type Decimal6Point3NonNegativeType.
  - o Data element PHEVChargeDepletingACElectricityConsumptionUnadjustedValue [0.0 to 99999.9 (LD-TI49)] was added with data type Decimal6Point1PositiveType.
  - o Data element PHEVChargeDepletingACElectricityConsumptionRateAdjustedValue [0.000 to 9.999 (LD-TI50)] was added with data type Decimal4Point3PositiveType.

- o Data element PHEVChargeDepletingTotalDCEnergyConsumedUnadjustedValue [0.0 to 99999.9 (LD-TI51)] was added with data type Decimal6Point1PositiveType.
- o Data element PHEVChargeDepletingTotalFuelConsumptionUnadjustedValue [0.0000 to 99.9999 (LD-TI52)] was added with data type Decimal6Point4PositiveType.
- o Data element PHEVChargeDepletingUtilizedTotalFuelConsumptionRateFleetUtilityFactorUnadjustedValue [0.000000 to 9.999999 (LD-TI53)] was added with data type Decimal7Point6NonNegativeType.
- o Data element PHEVChargeDepletingUtilizedTotalFuelConsumptionRateMultiDayIndividualUtilityFactorAdjusted Value [0.000000 to 9.999999 (LD-TI55)] was added with data type Decimal7Point6NonNegativeType.
- o Data element PHEVChargeDepletingGasolineDieselConsumptionUnadjustedValue [0.0000 to 99.9999 (LD-TI56)] was added with data type Decimal6Point4PositiveType.
- o Data element PHEVChargeDepletingFuelEconomyAdjustedValue [0.0000 to 999.9999 (LD-TI57)] was added with data type Decimal7Point4NonNegativeType.
- o Data element PHEVChargeDepletingGasolineDieselConsumptionRateAdjustedValue [0.0000 to 99.9999 (LD-TI58)] was added with data type Decimal6Point4PositiveType.
- o Data element PHEVChargeDepletingFuelEconomyUnadjustedValue [0.0000 to 999.9999 (LD-TI59)] was added with data type Decimal7Point4NonNegativeType.
- o Data element PHEVChargeDepletingACElectricityConsumptionRateUnadjustedValue [0.000 to 9.999 (LD-TI60)] was added with data type Decimal4Point3PositiveType.
- o Data element PHEVChargeDepletingCO2EmissionsRateUnadjustedValue [0.0 to 999.9 (LD-TI61)] was added with data type Decimal4Point1NonNegativeType.
- o Data element PHEVChargeDepletingCO2EmissionsRateAdjustedValue [0.0 to 999.9 (LD-TI62)] was added with data type Decimal4Point1NonNegativeType.
- o Data element PHEVChargeDepletingUtilizedCO2RateAdjustedValue [0.0 to 999.9 (LD-TI63)] was added with data type Decimal4Point1NonNegativeType.
- o Data element PHEVChargeDepletingUtilizedCREEUnadjustedValue [0.0 to 999.9 (LD-TI64)] was added with data type Decimal4Point1NonNegativeType.
- o Data element PHEVChargeDepletingUtilizedOptCREEUnadjustedValue [0.0 to 999.9 (LD-TI66)] was added with data type Decimal4Point1NonNegativeType.
- o Data element PHEVChargeDepletingFleetUtilityFactorValue [0.000 to 9.999 (LD-TI68)] was added with data type Decimal4Point3PositiveType.
- o Data element PHEVChargeDepletingMultiDayIndividualUtilityFactorRcdaAdjustedValue [0.000 to 9.999 (LD-TI69)] was added with data type Decimal4Point3PositiveType.
- o Data element PHEVChargeDepletingMultiDayIndividualUtilityFactorRcdcAdjustedValue [0.000 to 9.999 (LD-TI70)] was added with data type Decimal4Point3PositiveType.

- The following data type updates were implemented:
  - o Data type Decimal4Point3PositiveType was added.
  - o Data type Decimal6Point1PositiveType was added.
  - o Data type Decimal6Point4PositiveType was added.