WG14 Part 9 Issues - CIM Issues #6369

Support EVSE by adding new ReadingTypeID and EndDeviceEvent codes

06/02/2023 09:11 PM - David Haynes

Status:	New			
Priority:	Normal			
Target version:				
Author/Contact Info:	dhaynes@hubbell.com	**Standard(s):**	61968-9	
Base Release:		**Version:**	4	
Solution to be Applied To:		**Clause:**	Annex E	
Solution Version:		**Sub-Clause:**		
Solution Applied By:		**Paragraph:**		
Completion Date:		**Table:**		
CIM Keywords:		**Originally Closed in Version:**		
Breaking Change:	No	**Origination Date:**	06/02/2023	
Breaking Change Description:		**Origination ID:**		
CIM Impacted Groups:	WG14	**Originally Assigned To:**		
Requestor:	David Haynes			

Description

In 61968-9 we mention Electric Vehicle, but didn't try to fully support it. Now, many years later, we find that a new type of equipment has surfaced to supply power to the EV. The EV does the charging, but various types of supply equipment exist. There are different grades of equipment, but one of particular interest is the Electric Vehicle Supply Equipment (EVSE). The EVSE ensures that the AC supplied to the vehicle is safe to use. It contains a GFCI, it may contain other components including an electric meter. Part 9 seems to be the place to support the EVSE. It brings with it new events and new measurements that can be added to the collection enumerated in Annexes C, D, and E.

Proposed Solution

Proposed Event additions:
EndDeviceType
ElectricVehicle   58   (or Plug-in Electric Vehicle, PEV) a vehicle that can be plugged into the grid.
EVSE   59   Electric Vehicle Supply Equipment
ChargingCableTerminal   60   A terminal block which is a component of an EV charging system
GFCI   61   Ground Fault Circuit Interrupter
EndDeviceDomain
Circuit   76   Referring to a circuit as a component of the specified EndDeviceType
Safety   77   A system or subsystem dedicated to assuring user safety
EndDeviceSubDomain
ControlPilot   380   A conductor in a cable that indicates permission to operate
Detection   381   Describing the presence or absence of some object or condition
DisallowCharging   382   Related to an equipment mode in which the utility can ask that an EV not be allowed to charge at the present time.
GroundContinuity   383   Related to earth electrical grounding

ReadingTypeID Attributes
Commodity
70   EV
71   EVSE
72   GFCI
73   Relay
74   controlProcessor
75   chargingCableBlock

measurementKind
205   Charging

206	ChargingAllowed
207	Opt-out
208	LeakageCurrent
209	Continuity
210	DetectionCircuit
211	Circuit
212	ControlPilotSignal
213	ventilationRequired

Release Notes

The solution may be related to issue #6368

History

#1 - 06/02/2023 09:16 PM - David Haynes

- Subject changed from EVSE Support to EVSE Support by adding new ReadingTypeID and EndDeviceEvent codes

#2 - 06/02/2023 09:19 PM - David Haynes

- Release Notes updated

#3 - 06/02/2023 09:23 PM - David Haynes

- Subject changed from EVSE Support by adding new ReadingTypeID and EndDeviceEvent codes to Support EVSE by adding new ReadingTypeID and EndDeviceEvent codes

#4 - 10/24/2023 05:09 PM - David Haynes

In WG14 Meeting #81, Medina MN, Tom Berry suggests that we might want to look at what the DLMS/COSEM folks are doing so that we might minimize rework.