

Value	Function	Description
0	Engine	While the function identifies what is typically the mechanical power source of the machine, the reference tends to be to the management system that controls the torque vs speed vs command (typically throttle) of said power source.
1	Auxiliary Power Unit (APU)	Power source for operating systems without the use of the prime 'drive' engine.
2	Electric Propulsion Control	Control function which operates the drive mechanism when it is electrically powered, such as battery-motor, or engine generator-motor hybrids.
3	Transmission	A mechanical system for altering the speed vs torque output of the engine to a level usable by another system on the machine. Although the network reference is actually to the control function that controls the operation of said transmission.
4	Battery Pack Monitor	Monitors the condition - charge, temperature, power remaining for an internal battery pack - typically used with electric propulsion.
5	Shift Control	The control function that determines and transmit onto the network the gear, the range, the operating mode or any or all of these that the operator desires for the transmission. (Not to be confused with transmission control that is Transmission)
6	Power Take Off - (Rear or Primary)	The system that controls the mechanical power derived from a prime engine and used to operate auxiliary items such as compressors in on highway vehicles and such as implements in ag applications. This can be the main or rear unit.
7	Axle – Steering	Adjust attack angle as function of steering.
8	Axle – Driving	
9	Brakes - System Control	Controls service braking system electronically – can be any of a number of schemes – can also control (at least partly) the endurance braking system in the sense of an integrated control (application phased in with the service braking system).
10	Brakes - Steer Axle Control	Control function for actuating the service brakes on a steered axle.
11	Brakes - Drive Axle Control	Control function for actuating the service brakes on a drive axle.
12	Retarder – Engine	Control function for the retarder capabilities of the engine. There are several types of retarders possible and these are defined within the parameter - Retarder Type, (SPN 901).
13	Retarder – Driveline	Control function for the retarder capabilities of the driveline. There are several types of retarders possible and these are defined within the parameter - Retarder Type, (SPN 901).
14	Cruise Control	Control function for maintaining the vehicle's speed at a fixed operator selectable value with various over-rides linked to other systems.
15	Fuel System	Controls fuel flow from the tank to the filter to the water removal/ separator to the engine and then back to the tank.
16	Steering Control	Controls steering in steer-by-wire.
17	Suspension Control - Steer Axle	Control function for the suspension of a steered axle.
18	Suspension Control - Drive Axle	Control function for the suspension of a driven axle
19	Instrument Cluster	A gauge display for a vehicle. This display is typically mounted within the field of view of the driver in the cab. Generally it is a limited display such as dedicated dials or a small digit 7 segment display. See Cab Display for larger more elaborate display.
20	Trip Recorder	A function for accumulating data versus travel of the vehicle (machine), since a specific starting point sometimes expressed in terms of distance or time traveled.
21	Cab Climate Control	A function for controlling the climate within the cab of the vehicle (machine). Note: The operator controls (message) for this system should be designed to allow any source to transmit them.

ISO 11783 All industry NAMEs

22	Aerodynamic Control	Modify drag by altering Body panels – lower air ferrings when dead heading, extend side panels when on interstate.
23	Vehicle Navigation	System associated with the vehicles physical location – can be as simple as display of current location, driving instructions from current to desired location, (do we need a separate guidance?).
24	Vehicle Security	System for comparing operator provided data sequences against reference to verify that operation or certain operations be allowed for the particular operator. Also may include functions to prevent unauthorized operations. Examples: unlocking doors, starting engine.
25	Network Interconnect Unit	ECU for connecting different network segments together – can be bridge or gateway - see ISO 11783-4 for details. For use on any vehicle system (tractor or trailer)
26	Body Controller	Can handle suspension control for the body sections independent from the axle sections - Controls the body (not chassis or cab) components.
27	Power Take Off - (Front or Secondary)	System that controls the mechanical power derived from a prime engine and used to operate auxiliary items such as compressors in on highway vehicles and such as implements in agriculture applications. This can be the secondary or front unit.
28	Off Vehicle Gateway	ECU for connecting between vehicle network(s) and an off vehicle system or network, such as fleet management. Connection can be wireless. Performs Gateway functions, i.e., filters messages, translates between protocols.
29	Virtual Terminal	A general purpose 'intelligent' display with a specific message set (ISO 11783 –6) specifically mounted in cab for the operators use, which can be connected to the drive train segment of the network and / or to the implement network segment in an Ag application.
30	Management Computer #1	Manages vehicle systems, ie. powertain.
31	Propulsion Battery Charger	Control function used to charge propulsion batteries in an electric vehicle from an off-board source of electrical energy.
32	Headway Controller	Forward-looking collision avoidance, collision warning, speed controller, or speed matching.
33	System Monitor	
34	Hydraulic Pump Controller	Pump controller that provides hydraulic power to operate installed equipment, such as: Man buckets, cranes, augers, shredders Example vehicles: Digger Derrick – plants telephone poles, Bucket Truck - thus this is the controller for said pump.
35	Suspension - System Controller	A control function responsible for co-ordinating the over-all suspension of a vehicle. It can cause inter action between the axle suspension controls and the body controller.
36	Pneumatic - System Controller	
37	Cab Controller	A control function located in/near vehicle cab to perform functions that are grouped together for convenience and proximity. Can handle any number of vehicle specific items but not other specifically NAMEd functions, such as: Instrument Cluster. A prime use would be to read cab mounted operator controls (not handled by any other specific Unit) and to then transmit the associated messages onto the network.
38	Tyre Pressure Control	The function that provides control of centralised tyre inflation.
39	Ignition Control Module	A control function for altering the ignition of an engine and with which an engine controller can communicate.
40	Seat Control	A function for controlling the seats (operator and passenger) within the cab of the vehicle (machine). This can include control of the position and suspension of seat. Note: The operator controls (message) for the seat system should be designed to allow any source to transmit them.

ISO 11783 All industry NAMEs

41	Lighting - Operator Controls	The control function for sending the operator lighting controls messages when they are coming from a Unit dedicated to transmitting these specific messages on the network.
42	Water Pump Control	Control function for a water pump mounted on the vehicle/machine. For Instance – Emergency equipment with pump for pumping water onto fire. An Utilities delivery truck for delivery fluids, such as water to remote areas.
43	Transmission Display	Display designed specifically to display transmission information, such as the transmission gear.
44	Exhaust Emission Control	
45	Vehicle Dynamic Stability Control	
46	Oil Sensor Unit	
47	Information System Controller	Information management for a vehicle's application, such as transit passenger/ fare monitoring and truck cargo management. Handles grouping and processing data into information displays to be presented to driver. It also enforces the DI rules for interfacing with driver.
48	Ramp Control	Loading unloading – chairlift, ramps, lifts, or tailgates.
49	Clutch/Converter Control	When transmission is distributed this handles torque converter lock-up or engine - transmission connection.
50	Auxiliary Heater	Primary heat is typically taken from the engine coolant. This is the heater for use without the prime 'drive' engine operating or when it is unable to supply sufficient heat. Can be fuel fired, electrical or other type of heating source and can use air, water, or other transfer media.
51	Forward-Looking Collision Warning System	A system which detects and warns of impending collision with object in path of present forward travel - Not to be confused with #32, Headway Controller.
52	Chassis Controller	Controls the chassis (not body or cab) components – See web site for RLs definitions of Body, chassis, drive train
53	Alternator/Charging System	Vehicle's primary on-board charging controller – Alternator used to generate electrical power for vehicle electrical system and storage battery.
54	Communications Unit, Cellular	Radio communications designed specifically to communicate via the 'Cellular telephone system'. This can be either a receiver only, a transmitter only or a transceiver.
55	Communications Unit, Satellite	Radio communications designed specifically to communicate via some satellite system. This can be either receiver only, transmitter only or transceiver.
56	Communications Unit, Radio	Radio communications designed specifically to communicate via a terrestrial point to point system. This can be either receiver only, transmitter only or transceiver.
57	Operator Controls, Steering Column	A function that gathers the operator inputs from switches/levers/etc located in and/or around the steering wheel/column and transmits the associated messages on the network., when a separate NAME is needed for this Unit (i.e. other Units might be sending the messages and this Unit not exist on the network).
58	Fan Drive Control	Primary control function affecting the operation of the main cooling fan on the engine coolant. Other systems can send commands or requests to this Unit.
59	Starter	A mechanical system for initiating rotation in an engine that is stopped. This reference is more for the function that controls the starter than the starter itself.
60	Cab Display	Used for a fairly elaborate in cab display, typically capable of greater than 30 'ASCII' characters and differentiated from the Instrument Cluster and Virtual Terminal.
61	File Server / Printer	A printing or file storage function on the network - A permanent connection can exist and the unit is expected to be able to print (paper type output) or store data (as in magnetic or EEPROM components).

ISO 11783 All industry NAMEs

62	On-Board Diagnostic Unit	A tool which can be permanently mounted on the vehicle and that may not support all of the ISO 11783-12 messages.
63	Engine Valve Controller	Control function used to manipulate the actuation of engine intake and/or exhaust valves in response to other factors.
64	Endurance Braking	Sum of all functions in a vehicle which enable the driver with virtually no friction brake wear / tear to reduce the speed or to maintain the speed on a long descent. This can contain energy supplying unit(s), control unit(s), transmission(s), retarder(s) and energy dissipation Unit(s). The control can be independent of the service brake system or can be integrated with the service brake control such that both are applied simultaneously or in a phased fashion. An integrated system can also have a control to prevent linking of operation.
65	Gas Flow Measurement	Provides measurement of gas flow rates and associated parameters.
66	I/O Controller	Reporting and/or control Unit for external input and output channels.
67	Electrical System Controller	This can include Load Centers, Fuse Boxes, & Power Distribution boards.
68	Aftertreatment system gas measurement	Sensor for measuring gas properties before and after an aftertreatment system. For example measurement of Nox or Oxygen level.
69	Engine Emission Aftertreatment System	Engine Emission Aftertreatment System
70	Auxiliary Regeneration Unit	Auxiliary Regeneration control function used as part of an after treatment system
71	Transfer Case Control	The control function which controls the selection of the number of drive wheels (for example 2 or 4 wheel drive).
72	Coolant Valve Controller	The control function used to control the flow of coolant (water, oil, air, etc...) for any thermal management system.
73	Rollover Detection Control	The control function for detection of vehicle rollover.
74	Lubrication System	The Lubrication System pumps quantities of lubricant to each machine/vehicle joint that need to be lubricated.
75	Supplemental Fan	This is an auxiliary fan used for additional cooling. It is in addition to the primary cooling fan.
76	Temperature Sensor	Control function which measures temperature.
77	Fuel Properties Sensor	Control function which measures fuel properties
78	Fire Suppression System	Fire Suppression System
79	Power Systems Manager	Controller application that manages the power output of one or more power systems. See also IG 5 Function 129 - Generator Set Controller.
80	Electric Powertrain	Controller application in charge of controlling and coordinating the operation of an electric drive system.
81	Hydraulic Powertrain	Controller application in charge of controlling and coordinating the operation of a hydraulic drive system.
82	File Server	A file storage unit on the network - A permanent connection may exist and the unit is expected to store data (as in magnetic or eeprom devices). See Function 61 for a combination File Server/Printer unit
83	Printer	A printing unit on the network - A permanent connection may exist and the unit is expected to be able to print (paper type output). See Function 61 for a combination File Server/Printer unit
84	Start Aid Device	Device that controls hardware and/or conveys information related to assisting an engine in starting, such as a glow plug, grid heater, etc.
85 thru 127	Reserved for Future Assignment	