Clarus Optional Owner Provided Fields

Num	Remark	Field Name	Data Type	Description	Example/Format
	collector (data access from transportation agency to Clarus)				
1		description	text(50)	Description of collector	This collector will work with all ESS on the XX DOT network
2		maintInstallDate	datetime	Date of initial installation	5/4/2003 12:24
3		mfrName	text(50)	The name of manuafacturer	Facundo Computing
4		mfrProduct	text(50)	The name of the product	JF Blade Series 1000
5		mfrModel	text(50)	The model number or software version	123456HH0JM2
	Supplemental contact information (Network Owner)				
6		phoneAlt	text(10)	Contact phone alternate (including area code)	2025551212 (no dashes)
7		phoneMobile	text(10)	Contact mobile phone number (including area code)	2025554444 (no dashes)
8		fax	text(10)	Contact phone fax (including area code)	2025553333 (no dashes)
9		pagerId	text(10)	Contact pager identifier	2025551111 (no dashes)
10		pager	text(10)	Contact pager number	556687
11		radioUnit	text(50)	Contact radio unit identifier	2025555555 (no dashes)
12		address1	text(50)	Contact mailing address line1	123 1st Street
13		address2	text(50)	Contact mailing address line2	Suite 450
14		city	text(50)	Contact mailing address city	Apple
15		state	text(2)	Contact mailing address state	OR
16		zip	text(10)	Contact mailing address zip	99999-4444
17		country	text(3)	Contact mailing address country	USA
	Contributing organization				
18		location	text(50)	Organization location	MODOT
19		purpose	text(50)	Organization purpose	To provide a world-class transportation experience that delights our customers and promotes a prosperous Missouri.
20		centerId	text(50)	Organization center identifier	4
21		centerName	text(50)	Organization center name	KC Scout
22		updateDate	datetime	Organization information last updated	10/23/2005 14:25
23		contactId	integer	Contact identifier	Contact name for organizational issues that is included in the contact list - the id of the contact name will be put here
	Sensor-specific information				
24		calibDate	datetime	The last date of calibration of the sensor	9/3/2006 10:30
25		maintDate	datetime	The last date of maintenance performed on the sensor	9/4/2006 4:00
26		serial	text(50)	Manufacturer's serial number for sensor	55335668
27		resolution	real	The smallest increment or measurement that can be obtained from a particular sensor	tenths of degrees = .1
28		accuracy	real	The known potential variation of the observation	0.05
29		minDisplay	real	Minimum value for sensor display	-52.85
30		maxDisplay	real	Maximum value for sensor display	120.22
31	recommended	nsOffset	real	The north/south distance from the station reference location in meters	15.0 meters
32	recommended	ewOffset	real	The east/west distance from the station reference location in meters	8.0 meters
33	recommended	elevOffset	real	The vertical distance from the station reference location in meters	3.0 meters
34	recommended	surfaceOffset	real	The vertical distance from the pavement surface in meters	0.5 meters
35		embeddedMaterial	text(100)	Description (including depth) of material sensor is embedded in.	rubber cement
36		outputAvgInterval	integer	Milliseconds used to describe average interval of observations	300,000 milliseconds = 5 minutes
37		outputInternalUnits	text(8)	Internal units reported to data logger	Celsius
38		maintInstall	datetime	Initial installation date for sensor	2/8/2003 8:45

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39	recommended	maintBegin	datetime	Date sensor is taken out of service; sensors for which maintBegin < currentDate < maintEnd will not be checked for data quality. Use if sensor will be out of service for a significant period of time.	10/15/2006 14:15
40	recommended	maintEnd	datetime	Date sensor is put back into service; sensors for which maintBegin < currentDate < maintEnd will not be checked for data quality	10/15/2006 18:15
41		samplingInterval	real	Interval time, in seconds, between consecutive sensor readings	15.0 seconds
42	recommended	sensorDescription	text(100)	Plain text description of the sensor (e.g., thermometer, CCTV camera)	PTZ fixed IR camera
43	optional - unless the sensor is a CCTV then mandatory	linkURL	text(255)	Link to CCTV images	Direct URL link to a CCTV image
	Site-specific information				
44	recommended	roadwayDesc	text(50)	Name/number of the highway nearest to the site (e.g., "Interstate 35," "U.S. Hwy 59," "State Hwy 81," "Haines Highway")	State Hwy 81
45		roadwayMilepost	integer	Nearest mile marker to the site	45
46	optional - but must be included if roadwayMilepost is used	roadwayMilepostUnits	text(50)	Units reported for roadwayMilepost	Miles
47		roadwayOffset	real	The distance, in meters, between the closest point on the center surface of the roadway to the site reference point (e.g., base of an RWIS station)	37.53 meters
48		roadwayHeight	real	The elevation difference, in meters, between the closest point on the center surface of the roadway to the site reference point (e.g., base of an RWIS station)	22.8 meters
49		county	text(100)	The county or jurisdictional name of the site location	Fairfax County or Centreville Township
50	recommended	state	text(2)	State of the site location (2 letter postal ID)	VA
51	recommended	country	text(3)	The country of the site location (e.g., USA, CA, MX)	USA
52		accessDirections	text(50)	Directions to access the site from a major roadway	Turn left at the cow, proceed three miles to Joe's Grocery, turn right on State Hwy 81, go 3 miles, on left
53	recommended	representativeness	text(255)	Describe any unique meteorological or topographical feature(s).	Between 2 & 4 PM during the summer months, the ESS is shaded
54	recommended	obstructions	text(100)	Description of physical properties (e.g., trees, buildings) that might affect the accuracy of observations	Large outhouse parked on SW side of ESS
55		landscape	text(100)	Description of surrounding landscape	sandy area except for obstruction of oak tree and outhouse
56		accessControlled	bit	Ability for contributor to access the site (e.g., locked fence around site)	0 = no access, 1 = full access
57		terrainSlope	integer	The grade of the surrounding land, in whole degrees from horizontal	10 degrees
58		terrainSlopeDirection	integer	The direction of the grade, in degrees from North (e.g., slope down from west to east is noted as 270)	85 degrees
59		windRoughnessClass	text(50)	Roughness of the wind in four directions (expressed in whole percent)	24 percent

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Num	Remark	Field Name	Data Type	Description	Example/Format
60		soilType	integer	The type of soil on which the site is located, as described by the USDA National Resource Conservation Service soil texture classification (e.g., sandy loam, silt) or by percent sand, silt, and clay	Full enumeration list is not yet available
61		stateSystemId	text(45)	Site identifier used by the state DOT (or other data contributor)	22
62		linearReference	real	Linear reference marker number	4.3
	Station-specific information				
63	recommended	description	text(100)	The description of the station	The ESS has a 30 m tower with 10 sensors
64	recommended	type	integer	The type of station - "0" data collected electronically/mechanically, "1" collected by humans, "3" type of station is unknown	0
65		locBaseDatum	text(10)	The datum geocoordinate referencing model	WGS 1984
66		powerType	text(1)	The type of power for the station - "B" battery, "L" line	B
67		doorOpen	bit	The status of the door (0=closed, 1=open)	0
68		batteryStatus	integer	The percentage of full charge of the battery (101 = error)	78
69		lineVolts	integer	The typical voltage for the power source (0 to 100)	12 volts
70		maintArea	text(50)	The description of the maintenance group for this station (for the site maintenance personnel)	Substation 52
71		maintPrevFreq	text(50)	The description of preventative maintenance intervals	The station is serviced every year in the spring or when the station fails completely
72		maintCalibFreq	text(50)	The description of the calibration maintenance intervals	The station is calibrated every spring and fall
73		maintStatus	bit	The maintenance status of the station - "0" out of service, "1" in service	0
74		maintInstallDate	datetime	The initial installation date of the station	3/8/2004 8:00
75		rpuNumCards	integer	The number of sensor interface devices	2
76		rpuCommType	integer	The communication type for the station - "1" phone, "2" IP address	2
77		rpuPhoneNum	text(10)	The phone number to contact the rpu	2025555555
78		rpuIPAddress	text(15)	The IP address to contact the rpu	64.126.107.233
79		rpuMfr	text(50)	The manuafacturer of the rpu	XYZ Manufacturer
80		obsCollFreq	integer	The number of minutes between collection cycles (rpu to agency server)	2 minutes
81		obsCollOffset	integer	The number of minutes after UTC midnight that the first collection occurs	1 minute
82		obsTransFreq	integer	The number of minutes between transmission cycles	15 minutes
83		obsTransOffset	integer	The number of minutes after UTC midnight that the first transmission occurs	16 minutes
84		obsTransFormat	text(50)	The description of the transmission format from the station to the network data logger	The ESS will communicate with the data logger by way of remote control
85		maintContactId	integer	The contact person for maintenance from contact table; is implemented in the database as a link to a contact person	Contact name for maintenance issues that is included in the contact list - the id of the contact name will be put here
	Image information				
86	recommended	description	text(50)	Description of image	The image represents the Cumberland Pass in southwest Virginia

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Num	Remark	Field Name	Data Type	Description	Example/Format
87	optional - but must be included if image description is provided	linkURL	text(255)	URL for image	www.i70ess248.gov