



GOES TWG Presentation

May 2022

PDT Issues

Never Entered / Non Existent:

No data at all for the site

Accuracy:

Swap radios but do not update the radio type and manufacture

Up To Date:

Add a new sensor to transmission but did not include a SHEF code

Incomplete:

Only updates the PDT enough to stop getting error messages

What Does the DCP Know?

Platform ID
ABCD1234



Radio Type and
Manufacture

SHEF Codes
HG PR VB



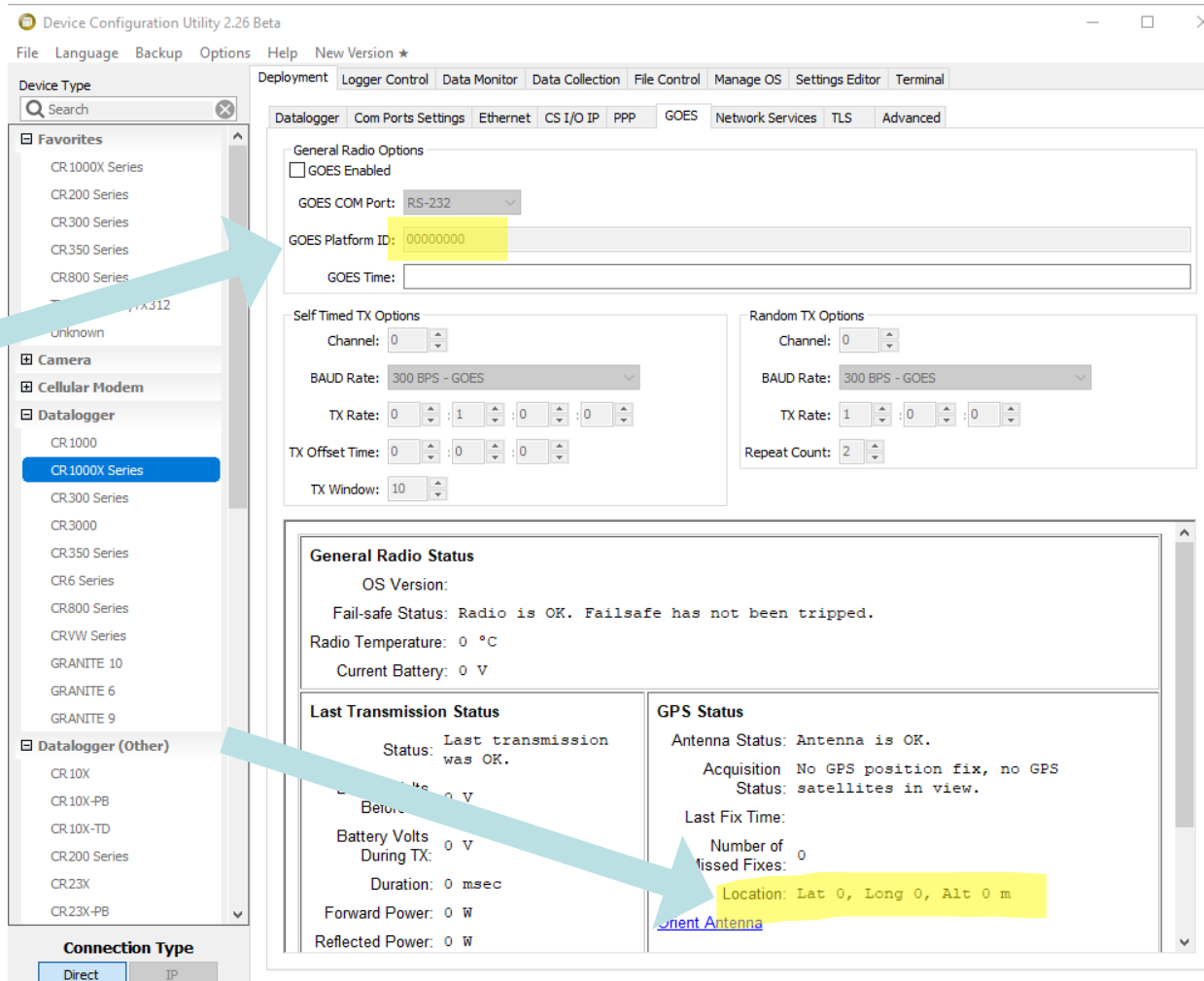
Latitude
Longitude

Deployment
Date



User Interface Information

Standard setup information in the user interface is often the same information needed for the PDT



Device Configuration Utility 2.26 Beta

File Language Backup Options Help New Version *

Deployment Logger Control Data Monitor Data Collection File Control Manage OS Settings Editor Terminal

Datalogger Com Ports Settings Ethernet CS I/O IP PPP GOES Network Services TLS Advanced

General Radio Options

GOES Enabled

GOES COM Port: RS-232

GOES Platform ID: 00000000

GOES Time:

Self Timed TX Options

Channel: 0

BAUD Rate: 300 BPS - GOES

TX Rate: 0 : 1 : 0 : 0

TX Offset Time: 0 : 0 : 0

TX Window: 10

Random TX Options

Channel: 0

BAUD Rate: 300 BPS - GOES

TX Rate: 1 : 0 : 0 : 0

Repeat Count: 2

General Radio Status

OS Version:

Fail-safe Status: Radio is OK. Failsafe has not been tripped.

Radio Temperature: 0 °C

Current Battery: 0 V

Last Transmission Status

Status: Last transmission was OK.

Battery Volts During TX: 0 V

Duration: 0 msec

Forward Power: 0 W

Reflected Power: 0 W

GPS Status

Antenna Status: Antenna is OK.

Acquisition Status: No GPS position fix, no GPS satellites in view.

Last Fix Time:

Number of Missed Fixes: 0

Location: Lat 0, Long 0, Alt 0 m

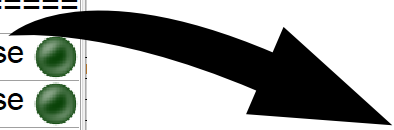
Connection Type

Direct IP

DCP Generates PDT Batch File

Field	Value
RecNum	15276
TimeStamp	5/3/2022 12:50:24
GENERAL_VARS	=====
PTemp	23.27
Batt_volt	0.00
PDT_SETTINGS	=====
Generate_PDT	false <input type="checkbox"/>
Send_PDT	false <input type="checkbox"/>
State	UT
Location_Name	Great Salt Lake

- Once a Technician is finished setting up the DCP, the DCP can generate the PDT Batch File.
- The file can be downloaded like any other data file



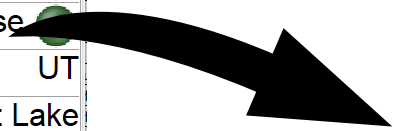
```
File Edit Format View Help
Update PDT = 01054568 &
Country_State_Prov = USUT &
LOC_NAME = "Great Salt Lake" &
SHEF_CODE_1 = HG &
SHEF_CODE_2 = PR &
MANUFACTURE_ID = "SigEng" &
MODEL_NO = "OmniSat" &
LATITUDE = 414429 &
LONGITUDE = -1114801 &
END
```

DCP Sends PDT Information

Clock/Program		Monitor Data		Collect Data	
Add		Delete		Port/Flag Options	
RecNum	15276	TimeStamp	5/3/2022 12:50:24	GENERAL_VARS	=====
PTemp	23.27	Batt_volt	0.00	PDT_SETTINGS	=====
Generate_PDT	false <input type="radio"/>	Send_PDT	false <input type="radio"/>	State	UT
Location_Name	Great Salt Lake				

Connection Time 4:13:40

- Once a Technician verifies the PDT file, it could be transmitted on the random channel.
- May take multiple transmissions to get all the data
- Auto Digestion by system??



Conclusion / Questions

- **Would this be helpful to NOAA?**
 - Automated and less error

- **Would technicians use this?**
 - Simple training

Other Questions?



Thank You