

ST. MAARTEN AUTOMATION IN WIS2-BOX

Sheryl Etienne-Leblanc

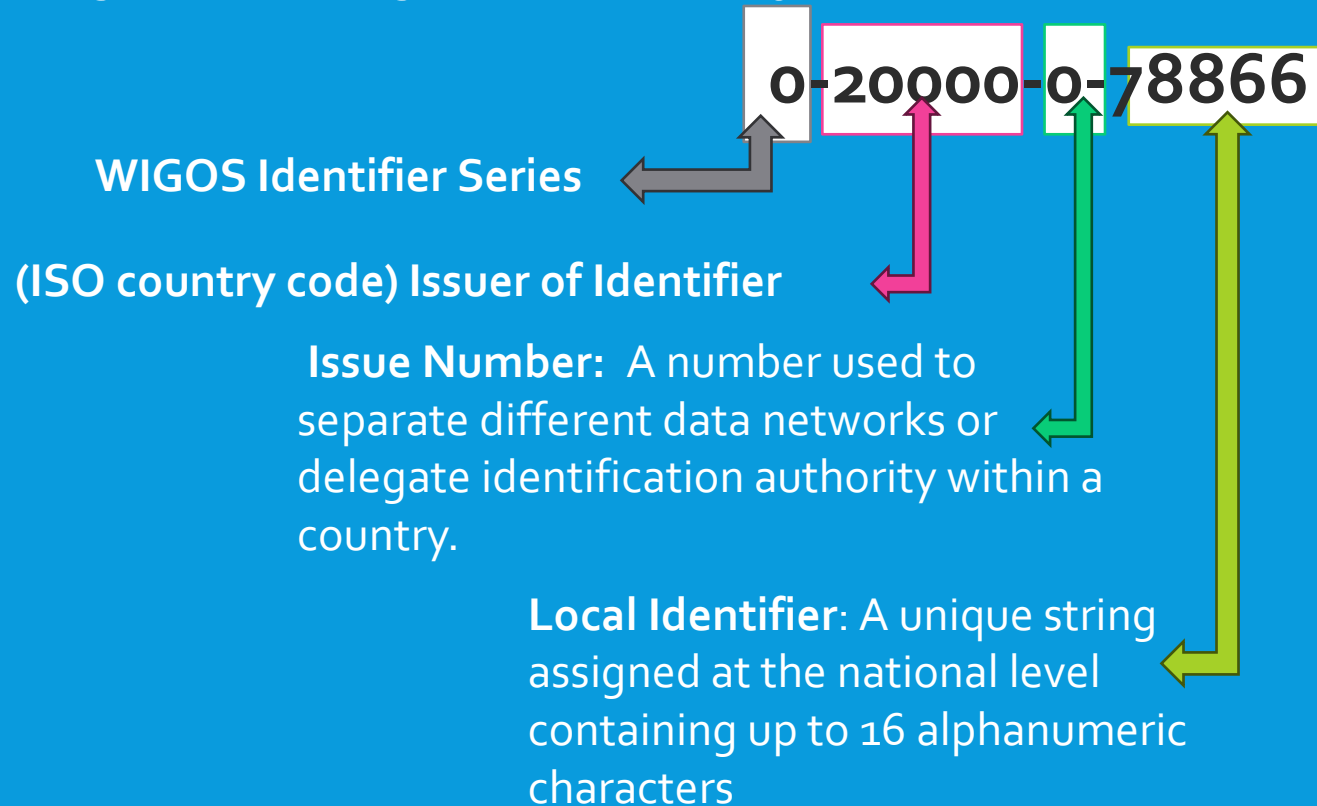
Meteorological Department Sint Maarten

- 5 Full automatic weather stations
- 2 Rain Gauges
- 3 Air Quality Sensors



THE PROCESS....

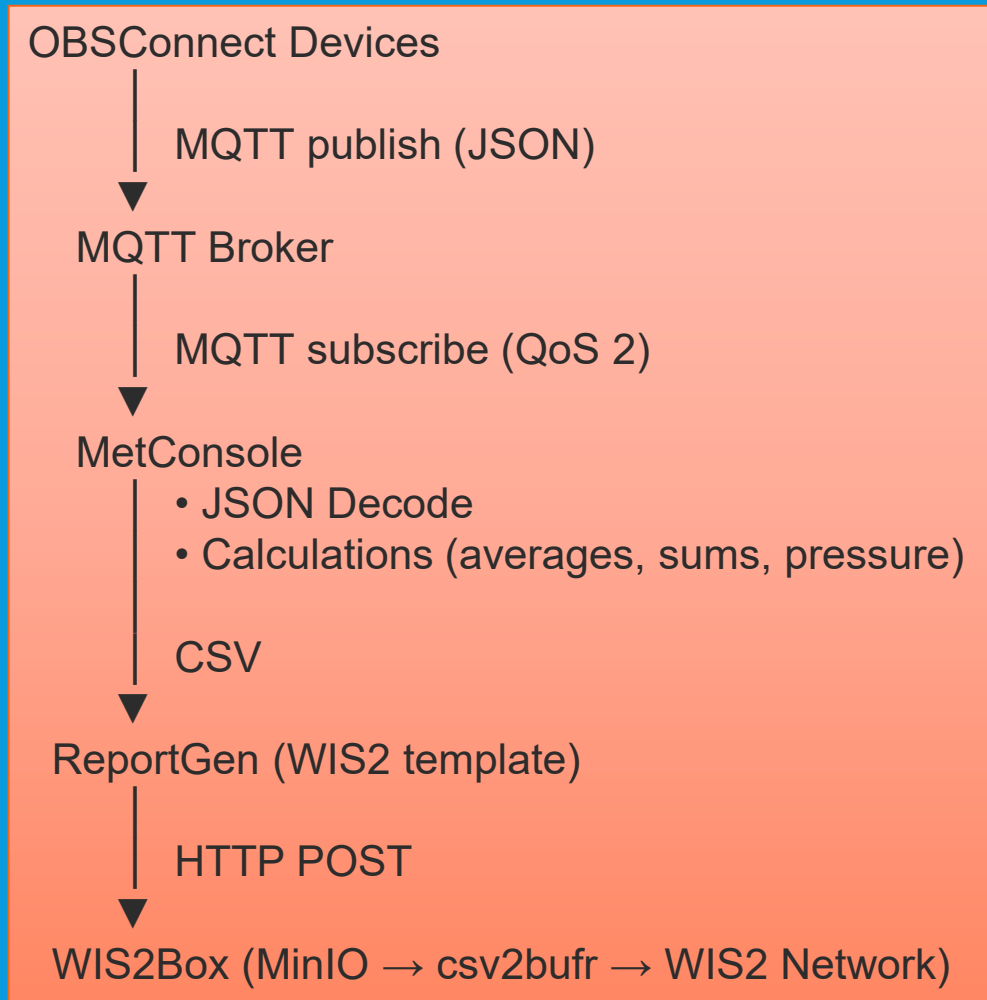
Construct the 4-block ID according to World Meteorological Organization (WMO) guidelines and register it in the global OSCAR/Surface database



0-534-100-88202601

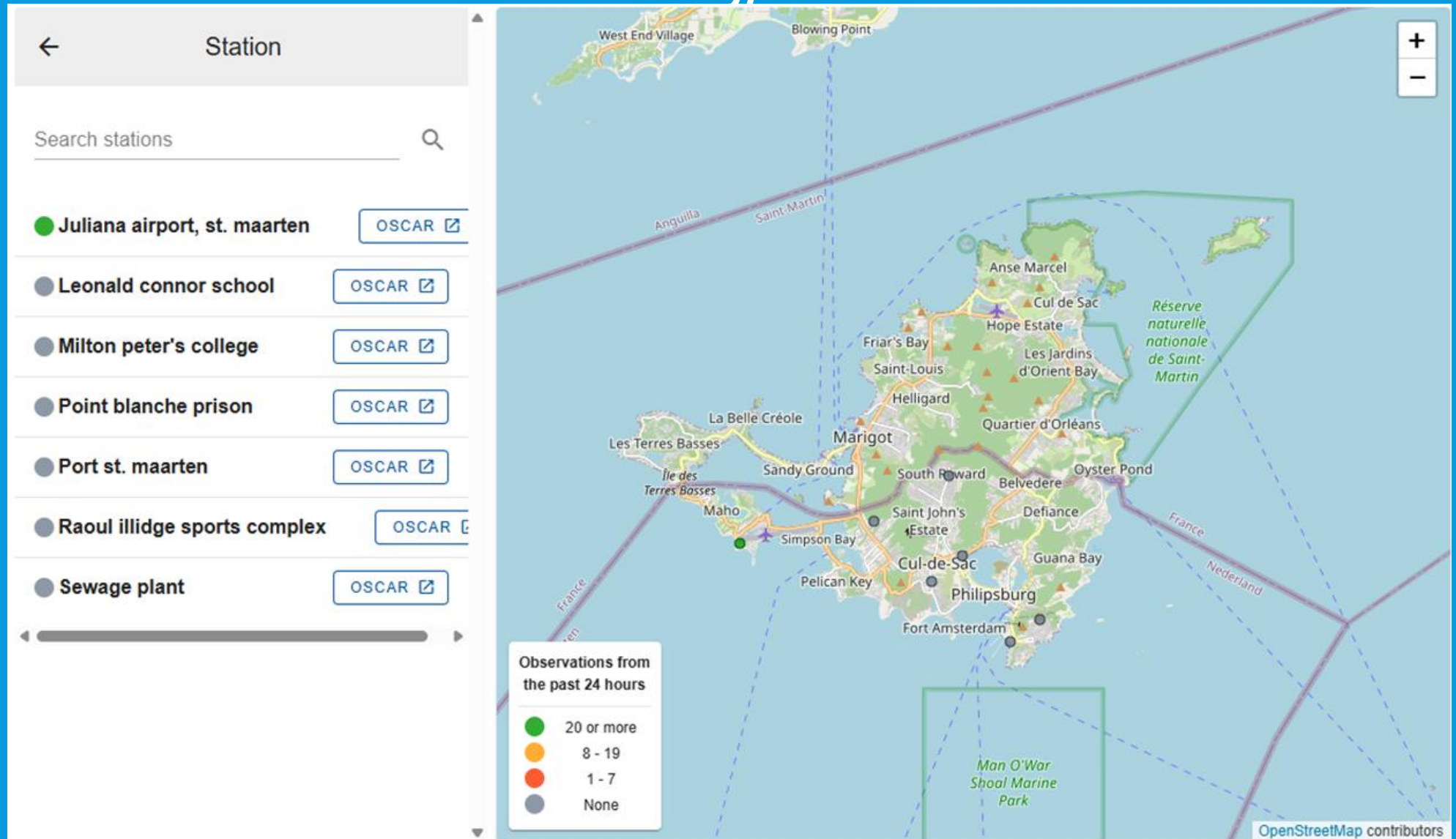
Location	Type of Station	WIGOS ID
Airport	AWS/Hybrid	0-20000-0-78866
Milton Peters College	AWS	0-534-100-88202601
Raoul Illidge Sports Complex	AWS	0-534-100-88202602
Prison	AWS	0-534-100-88202603
Port St. Maarten	AWS	0-534-100-88202604
Sewage Plant	Rain Guage	0-534-100-89202605
GEBE Cape Bay	Rain Guage	0-534-100-89202606

Wigos # sent to Vendor



- ❑ ObsConnect devices publish data from the stations into a MQTT broker (which MetConsole consumes).
- ❑ Once the messages get to the central servers, a JSON Decoder component ingests the data individually into the MetConsole database.
- ❑ MetConsole makes some calculations (aggregations over time).
- ❑ Using another component to create reports in CSV format (according to WIS2box templates)
- ❑ Finally, the data is pushed to WIS2box using a RESTful client component via an HTTP upload to the MinIO repository.

June 3, 2026



Error Message (June 3, 2026)

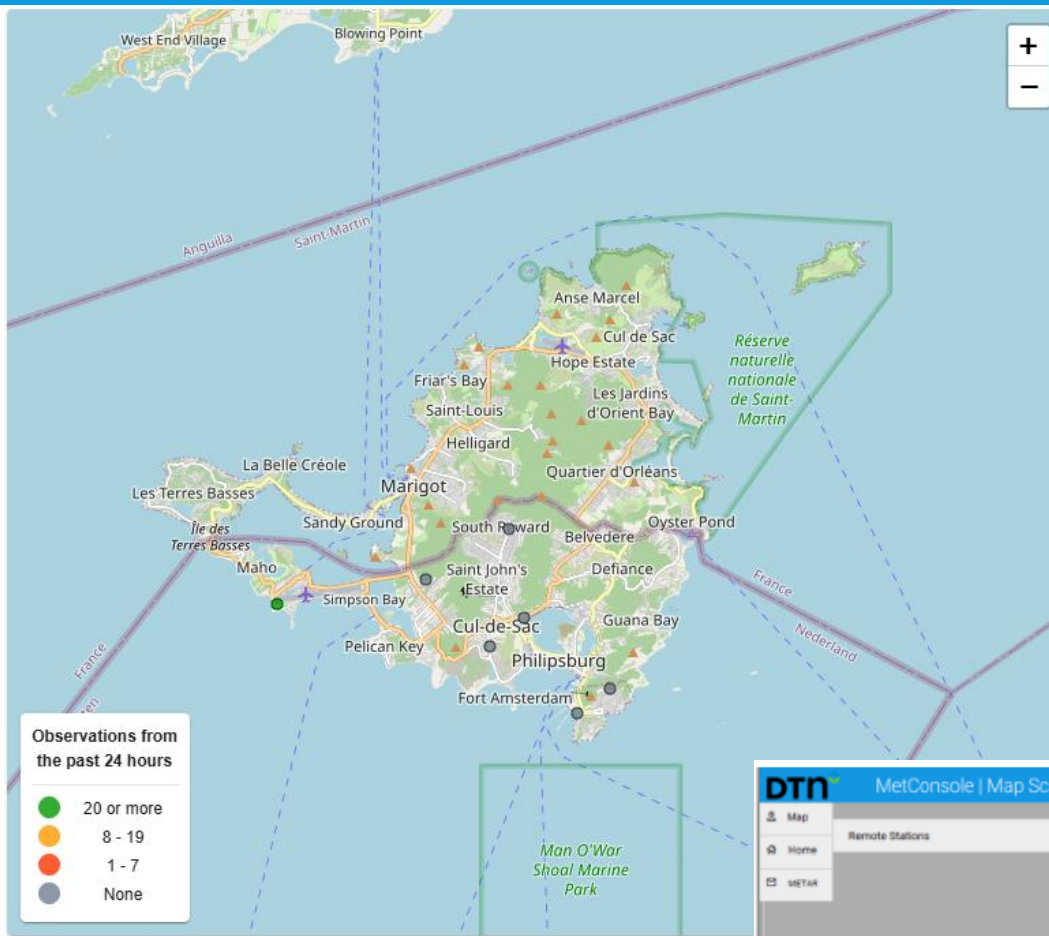
Hi Sheryl,

We **were** checking the connectivity with **WIS2box** and we are receiving a "Timeout" **error** when trying to deliver **the message**. **There** can be many reasons for **this**, and I would like to involve Dwayne in the troubleshooting (**on the WIS2box side**).

Station

Search stations

- **Juliana airport, st. maarten** OSCAR
- **Leonald connor school** OSCAR
- **Milton peter's college** OSCAR
- **Point blanche prison** OSCAR
- **Port st. maarten** OSCAR
- **Raoul illidge sports complex** OSCAR
- **Sewage plant** OSCAR



<https://wiscaribbeancmo.org>

Observation PC

DTN MetConsole | Map Screen

UTC 10:45:52

Remote Stations: SGTW2506017

Airport Site

Latitude: 18.03843 Longitude: -63.11920
Station Height: 3 WMO Number: 866

1st Speed: 4.6 m/s	1st Dir: 109.7 °	15Min Max Gust: 6.4 m/s	15Min Max Gust Dir: 87.2 °
2Min Avg Speed: 5.0 m/s	2Min Avg Direction: 99.7 °	60Min Max Gust: 7.2 m/s	60Min Max Gust Dir: 104.7 °
10Min Avg Speed: 4.6 m/s	10Min Avg Direction: 95.3 °	24H Max Gust: 7.2 m/s	24H Max Gust Dir: 7.2 °
15Min Min Gs: 76.0 °	15Min Min Gs Dir: 113.6 °		

Air Temperature: 26.2 °C	Sea Point Temperature: 21.6 °C	Relative Humidity: 75.9 %
10Min Avg Air Temperature: 26.2 °C	10Min Sea Point Temperature: 21.7 °C	10Min Relative Humidity: 76.2 %
12 Hour Min. Air Temperature: 25.9 °C		
12 Hour Max. Air Temperature: 26.3 °C		

Pressure Sea Level: 1016.6 hPa	Pressure Sea Level Last 24Hours: ? hPa	QNH: 1016.6 hPa
Total Precip. Last Min: 0.00 mm	Total Precip. Last 1 Hour: 0.00 mm	Total Precip. Last 2Hour: 0.00 mm
Total Precip. Last 3 Hour: 0.00 mm	Total Precip. Last 12 Hour: 0.00 mm	Total Precip. Last 24Hour: 0.00 mm
Visibility MDR: 25000 m	10Min Visibility MDR: 25000 m	
PW 0000-0075: 0	PW 0000-0075: 0	
1 Min. Avg. Sea Water: ? °C	Sea Temp: ? °C	

