



SCS Scientific Computing System
NOAA Office Of Marine and Aviation Operations

Release Notes for SCS 5.1.12

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**Office of Marine and Aviation Operations
Software Engineering Division
SCS Team**

Downloading SCS Documents and Application:
<https://scsshore.noaa.gov/Home/Downloads>

Resolved Issues, Improvements and New Features

Database

- Fixed – Resolved problems that may occur when operations on tables maintaining large amounts (message and event_output_value) of data cause database locks for longer than expected times. In severe cases, data disseminated throughout the rest of the suite of services can become temporarily backlogged. The QAQC service then receives data later than the message's timestamp, causing it to log to the database and notify the other apps, compounding the problem, sometimes to the point of thread pool depletion leading to machine unresponsiveness. (Ticket #18715)

CFE

- Fixed – Bug in CFE associated with the Description field of the Message Definition of a Calculated Interface. (Ticket #12697)
- Fixed – CFE calculated message definitions display order and data field positions were misassigned under certain circumstances, including user error. Validation included to prevent this.
- Fixed – Configuration rollbacks to last save after a database error did not clear the error state of the database, forcing reloading the last published configuration.

QAQC

- Fixed – QAQC Timeout definitions are no longer set to the severity state of Error when received messages' timestamps are later than the timeout limit (by default 30 seconds). (Ticket #18715)
- Improvement – handling of WCF communication between ACQ and QAQC, monitoring CPU, memory, and thread pool available.
- Feature – If QAQC receives messages with timestamps older than the timeout limit, the severity state of the Timeout QAQC definition for that message definition is set to Warning. This will not change the faulted state of a reference data source current using any data field from message. For timeouts, a message would need to be not received after the timeout limit for the Timeout state to be set to Error. (Ticket #18715)

Event Builder and Logger

- The Sensor data source selection for a Summary Meta Item - Trackline Length was converting latitude and longitude values to decimal degrees twice. (Ticket #18715)
- The Trackline calculation failed if the data source selection is Output and the output is a snapshot. (Ticket #18715)