



SCS Scientific Computing System
NOAA Office Of Marine and Aviation Operations

Release Notes for SCS 5.1.1

Release Date: December 19, 2023

Office of Marine and Aviation Operations
Software Engineering Division
SCS Team

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

Features, Improvements & Resolved Issues

Database

- ✓ Major MySQL upgrade from version 8.0.28 to 8.0.34. (9384)
- ✓ Improved SCS File DB Schema to avoid conflicts and save storage. (8743)
- ✓ Improved the backup tasks so file binary data now included. (10269)
- ✓ Add 'Lake Union Drydock' to SCS's table. (10391)
- ✓ Fixed the database update and deletion issues. (10853, 10858).
- ✓ Change the 20231016-1 update to only delete the data column (event_data_store table) if event data file creation succeeded without error. (10862)

ACQ

- ✓ Resolved - If there are more than two or more messages coming in a port, the data buffer would grow until exceeding its limit, data would be lost, and timestamps would lag or even be off until the buffer had been cleared. (10657)
- ✓ Resolved - On relatively rare occasions (1 out 10,000 to 1 out 80,000), messages experience one character out of order. This scrambling of characters causes parsing errors and/or checksum errors. (10633)
- ✓ Resolved - More logics implemented to address scenarios where the incoming data string contained multiple messages plus an incomplete one, however rare that occurrence. It needed to test for each message definition for a port defined in CFE. This logic change still maintains the ability to preserve the timestamp for an incomplete message that may take two or more iterations to be completely read. (10657)
- ✓

Web Interfaces

- ✓ User Interface designer upgraded to latest KENDO UI. (9827, 10307, 10286)
- ✓ Web page themes updated. (10115)
- ✓ Improved the images on the CFE page so they look better in dark themes. (10121)
- ✓ Users can select data fields and message definitions by dragging a rectangle over the tree list. (6099)
- ✓ Fixed bugs with checkboxes in the Data field selector. (10186, 10146)
- ✓ Fixed bug - Ship entry fails on install when ship name has apostrophe (when user selected Other Ship during the installation.) (10479)
- ✓ Resolved - Zoom out issue in the chart display and also the issues to query historical data (9766)
- ✓

Data Management

- ✓ Resolved - Changes made in the CFE won't be taken into account by Data Disseminator service
- ✓ Improved the View the Summary grid on the NCEI submission page. The summary is for one year, and the Expected days is 365, but should only be the count of days that are listed as "Expected to have data" in the SDAL Service call return. (10346)
- ✓ UDP Send Message (9462, 9467)
 - Fixed the Minimum/Maximum range set to the IP address fields for Multicast UDP
 - Fixed Direct Socket bug (found on the ship Lasker)

Charts, Gauges, Real-Time Displays

- ✓ Improved Quick View display. (10313)
- ✓ New - Add Checkboxes column to the data field selector window. (9468)

QAQC

- ✓ Improvement - Alerts in the definition builder is temporarily disabled. (7978)

Event Builder and Logger

- ✓ New - Add Audio Alarm as an action option to Event builder. (10244)
- ✓ New - Add ability for users to specify Chrome Tab title in Events (10138)

When users ran multiples of the same events, they opened each instance in a tab and all the tabs had the same names so it's hard to find which event they wanted to work on. Now, users can select a Meta item (pre-created) from the Setting area (Event Builder) and tie it to the browser title.

- ✓ Resolved - Failed to download the huge event. (10265, 10556, 10402, 10426, 10428, 10451)

Important Note: Data will start compiling right after event stopped. It will take longer if there are lots of event data to process.

- ✓ Resolved - the vertical scrolling issue in the Event builder, especially meta item editor (9501)
- ✓ Resolved - Event Builder Outputs: Empty meta item list shown after clicking the Manage button. (10847)
- ✓ Resolved - Event Builder - Clicked on Outputs and the waiting circle is non-stop spinning. (10839)
- ✓ Resolved - Event Management: Can't add and save Event Global Metaitem Options (10867)

CFE

- ✓ Improvement - conform/convert the reference data values to a standard unit of measurement. (8637)
- ✓ Fixed - the vector angle phase shifted to +180/-180 (reported by SAMOS) (9687)
- ✓ Correlation derived construction issue (9999)
- ✓ Fixed the context menu issue on the CFE page (10123)
- ✓ Added new parameters: Wind Direction Convention, Anemometer Zero Line Ref (deg), Rad-Direction, Pressure Adjusted To Sea Level. Required by SAMOS. (7702)
- ✓ Fixed issues found with SAMOS meta data files. (10129)
- ✓ Fixed the issue that SAMOS list was not re-generated after publish. (9426)
- ✓ Improvement - Both new parameters Anemometer Zero Line Ref and Wind Direction Convention for True Wind derived are inherited from the triggered relative wind parameters. (10389, 10392)
- ✓ Improvement - Restrict the parameter selections of the True Wind and Heat Index calculations according to data field category (10291)
- ✓ Improvement - Data disseminator should take into account changes in the CFE right after the publish. (7553)
- ✓ Improvement - Added a warning if user doesn't select a trigger for a true wind calculated item. (9437)
- ✓ Improvement - Increased the buffer size to import 4.9 zipship. (10814)
- ✓ Resolved - Level Expand issue caused by the Kendo update. (10842)

Auto Detect

- ✓ Improvement - No longer checking for baud rates on ports that are locked. (9189)

Data Extraction

- ✓ Resolved - The data cleanup function failed to clean up the extracted data packages. (9470).
- ✓ Resolved - The size limit prevented data export data (9805) - Issue reported by Nancy Foster.

Administration

- ✓ Fixed the issue that user cannot submit ticket or feedbacks from SCS's page. (9068).
- ✓ Fixed typos and formats on the Vessel Profile page. (9574)
- ✓ The home port address has been updated due to HQ moved office. (9136)
- ✓ Improvement - When users created a new user and the user name included the "_", the "_" replaced by a "\". Since we don't support domain accounts in SCS, this replacement is removed from SCS. (10365)
- ✓ Improvement - The SMTP Server configuration portion removed from NOAA ships. (8991)
- ✓ Resolved - The GIS triggers fired at wrong locations. (Found on ship Oregon II) (10317)
- ✓ Improvement - Make all 4 default checkboxes uncheck @ the Data Cleanup main page. (9818)