



**SCS** Scientific Computing System  
NOAA Office Of Marine and Aviation Operations

Software Engineering Division  
Marine and Aviation Cyber Center

## Release Notes for SCS 5.0.45

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Release Date: December 27, 2021

More about SCS: <https://scsshore.noaa.gov>

Related Documents: SCS User Manual

- View HTML Online - <https://scsshore.noaa.gov/help>
- Download a PDF - <https://scsshore.noaa.gov/Home/Downloads>

# New Features/ Improvements/Fixed Issues

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## Menu - System

- A new menu item “Name Mapping” was added to System menu. It lists all CFE items with “System Name”, “Display Name” and “Type”. The list can be exported as needed.
- The Reference Sources now shows “Category”, “System Names” and “Display Names” for Data Field References.

## ACQ

- (Fixed) The data logging control is persisted, it won't be reset to be ON after server restarted.

## Gauge Widget

- User can define internal gauge labels through radial and linear gauge builders. The label positions calculated by distances to the upper-left corner of gauge boxes and represented as (x%, y %).

## CFE

- Calculated Interface - HeatIndex calculation requires input temperatures to be in Fahrenheit. If the units of the base field are in Celsius, modify the calculation at compile time in the auto-generated code to convert to Fahrenheit.
- Calculated Interface - For base field parameters of derived calculation, filter the selectable base fields from the dropdown according the specified data field category type for that parameter.
- Calculated Interface - Calculated Interface References on CFE data field may not be updating correctly when data field categories and units are changed.
- Referenced Data Sources – When a message fails over and restores, SCS follows the reference order to allocate data fields.
- Validation page - Now the list will scroll to the top automatically.
- Category Referenced Data Source changed to/from NULL no longer throws exception, got handled.
- Physical Device – Added a new Anemometer model for RM Young: 85004
- Physical Device – Added a new CTD model for Sea Bird: SBE 9 Plus

## Quality Assurance / Quality Control (QA/QC)

- QAQC message checkpoints will be cleared whenever message table is truncated.
- System QAQC now triggers Reference Data Sources
- QAQC auto-code generation is erroneously accessing a defunct property of the Coordinate class.
- Improved the error/warning counts at Monitor page.

## REST API

- Modify SCS to create a system Port Arrival/Departure Trigger that notifies the shore web via REST.

## Installer

- The SCS self-signed certificate created during installation got extended to 50 years.

## NCEI Submission

- The package now submit raw data files, no longer the NetCDF files. The NetCDF option is available for Data Extractions.