



SCS Scientific Computing System

NOAA Office Of Marine and Aviation Operations

Release Notes for SCS 5.0.34

Software Engineering Division
Marine and Aviation Cyber Center

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Related Documents: SCS User Manual

HTML - <https://scsshore.noaa.gov/help>

PAD - <https://scsshore.noaa.gov/Home/Downloads>

Visit website to learn more about SCS: <http://SCSshore.noaa.gov>

New Features and Improvement

ACQ

- Improved the real-time performance to deliver data.
- Improved the parsing engine to better handle bad characters in sensor messages.

RESTful API calls @SCSShore

- "GetXmlReleaseIDsForShipDay" - New API to retrieve IDs of device configuration(s) used by a ship on a specific date.
- "GetImage" - New API to get an image by ID, optionally specify if you want full resolution or thumbnail (if available).
- "DownloadFile" - New API to download a file (image, pdf) by ID.
- "DownloadConfig" - New API to download a specific device configuration file.

CFE

- The error and warning indicators in CFE now are above dialogs in z-order and cover information requiring the dialog to be moved. Also the icons have a colored background area around them. They are meant to have a transparent background
- Allow user to select which data fields to include when auto-generating a standard NMEA message.

Quality Assurance / Quality Control (QA/QC)

- Improved the performance to backfill large portion of datasets.

Events

- User is able to download a running event output.
- User with Scientist Role can start and join and interact with read-only events.
- The layout preview in the editor has been improved.

Installer

- Add feature to remove the firewall rules during uninstallation.

Layouts and Widgets

- Improved the data streaming performance

Resolved Issues and Bugs

ACQ and SCS Servers

- (Fixed) ACQ cannot resume data logging after the database server rebooted.
- (Fixed) Some changes in CFE were ignored by ACQ, for example, the change of raw data folder.
- (Fixed) To disable and re-enable the ACQ Logging Control sometimes threw exceptions.

System Configurations

- (Fixed) Those layout dimensions on the Layout of Vessel Profile only accepted integers.
- (Fixed) If the SMTP username and password were not set at the time of installation, the decrypting algorithm threw an unhandled exception trying to decipher an empty string. This prevented the page /Config/Settings/EmailSettings from loading.
- (Fixed) Created a user account with the Scientist Role; user got uncaught exception when login with this new account immediately from the same web page.

CFE

- (Fixed) Copied an existing physical device and pasted to create a new device did not work.

Auto Detection

- (Fixed) Auto detect service was shut down because the service caused its log file growing to too large.

Data Visualization Tools - Layouts, Widget Groups

- (Fixed) In the bridge room, a Red light mode is needed during night-time operations to ensure night vision capabilities. SCS provides bridge theme for night time operation in bridge room.
- (Fixed) Series name on charts showed GUID, not the display names.

Quality Assurance / Quality Control (QAQC)

- (Fixed) Incorrect timestamp on the QAQC-Monitor.
- (Fixed) QAQC-Monitor bugs and unexpected behaviors.
- (Fixed) The layout preview in the editor has been improved.

Events

- (Fixed) Data field selection issue in the Sensor Selector. For example, some derived data fields were disabled.

Custom Messages

- (Fixed) The demo message at the bottom of Custom Message Template editor did not set the component types correctly (display only not the real output messages)

Data Submissions (NCEI, SAMOS, TSG)

- (Fixed) The NCEI Submission web page threw exception if no logged days found from SDAT.noaa.gov.
- (Fixed) The filter of the message selector had unexpected behaviors.
- (Fixed) No longer able to select multiple data fields when in Quick Visual mode.
- (Fixed) Invalid Meta Data mapped from point.xml found with NetCDF in NCEI's submission.
- (Fixed) Error to submit NCEI packages more than once at the same dat.
- (Fixed) Missing latitude or longitude data in all NCEI packages.
- (Fixed) Parsing issue on the coordinator data in NetCDF.
- (Fixed) Longitude conversion issue found in SAMOS package