Taurus Software Release Notes 2.01.00

1 Release Packages

The following constitute the Taurus Software v2.01.00. It is required that all files be installed with the right version to ensure proper operation. Version 2.01.00 uses a different store format to previous versions. Customers will need to back up any data recorded with previous Taurus software versions before upgrading. The upgrade process will delete the old store and create a new version 2.0 store.

2 Features

General enhancements

- Automatic mass centering
- Security: user authentication and authorization
- Enhance diagnostics via super LED and status page info
- Taurus software upgrade via web interface. One step upgrade from web browser
- User interface enhancement. Updated web pages and information groupings
- New system configuration layout
- New advance configuration page, replaces old factory setting page
- Ability to add and delete sensor prototypes
- HTTP access to serial ports
- HTTP API for configuration upload
- IP over serial port using either SLIP or PPP protocols
- Support configurable default gateway
- Adaptive data flow based on physical link bandwidth
- New store database and associated utilities (store tools)
- Infrastructure changes to support the new store
- Store extraction using Apollo Lite

Data download enhancements

- Approximately ten fold increase in data download speeds
- List driven data retrieval via browser interface. Accepts lists in NEIC Finger and IRIS ASCII formats. Taurus will calculate the arrival time at its location using IASPEI travel time tables if prompted
- Event extract. User extract based on event location and origin time. Taurus calculates the arrival time at the Taurus location using IASPEI travel time tables
- Direct data download in SEISAN format. Automatic configuration of directory structure
- Direct data download in PASCAL MiniSEED with 4K block size
- Direct data download in IASPEI SEGY
- Taurus media support on Windows

3 Limitations & Known Issues

- The unit must be rebooted when switching from CF to disk or vice versa. Switching media of the same type for data collection does not require a system reboot (refer to manual for additional information)
- The internal browser timeout is set at 15 minutes. This interface will shut down after 15 minutes without user input

- The GPS engine should always be configured as “on” in either the continuous or duty cycled mode. GPS off is intended for system test only as it disables the GPS engine irrespective of the mode of operation.
- The Taurus should not be configured in buffered mode with data streaming enabled. This is not a supported configuration.
- The super LED flashes RED for several seconds when pressing the central button to wake up the internal browser. This is normal operation as the processor indicates a red status while waiting for the GPS to confirm correct operation.
- The compact flash or IDE media should be used for the store only. Avoid using the media for storing other file types or old store objects.
- The current ppp implementation does not automatically reconnect. If the connection is lost the user will need to manually reconnect. This will be addressed in the next maintenance release.
- The maximum MiniSEED file size supported is 488 MB
- When in buffered mode, the Taurus can take up to several minutes to start the browser function.
- If the user interface fails and presents a white screen, holding down the center button for 5 seconds will restart the Linux processor. A second center button entry will restart the browser. UI failures do not result in any lost data.
- Always use the "Store Tools --> Switch Media" command before physically switching media
- The Taurus design allows the unit to write data to a store even if the store was created on another Taurus and already contains data from other Taurus instruments. Data within the Store is labeled with Taurus serial number, station name and Lat/long information such that the different data sets can be easily identified during data recovery. When using media with Store’s that contain multiple data sets the user should not try and display SOH or log file data from data sets recorded by different Taurus instruments. The different SOH data sets are flagged on the Taurus display by recording time.

4 Upgrade Procedure

- Upgrade procedures are included with the release. The procedures required the user to use Telnet and ftp to copy over the new code and install and activate the software. Users should be careful to ensure that each action is confirmed with a screen message indicating that the upgrade step has completed successfully. If any step fails to complete the process should be repeated several times before contacting technical support.