

Section:	Interface/Alerts
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Alert flag	Cause	Action
NOINFO	No information has been collected since more than 1 day. The alert flag is lowered after 10 days.	➔ Check for connectivity (cable connected, modem setup etc). ➔ Is the station powered ? ➔ Some password is defined ?
OLDPULSE	No synchronization pulse has been received since more than 1 day. The alerts flag is not raised if NOINFO is also raised.	➔ Is the GPS connected ? ➔ Is the GPS powered ? ➔ Check for good sky visibility (check the constellation map)
BIGSHIFT	For Titan-based digitizers only: raised if the time shift between internal clock and absolute time is larger than 20 seconds.	➔ Sent a time setting command (refer to the titan documentation).
BIGDRIFT	The drift of the internal clock is out of acceptable range. The alert is raised based on the following thresholds: • 15ppm for Titan-based digitizers • 1ppm for Kephren, Osiris, Sage, Kheops	➔ Perform the same check as for OLDPULSE ➔ Is the temperature particularly high ? low ? ➔ If all is fine, the station may have an internal problem.
LOWPOWER	For non-PC based systems, the flag is raised if the level of the external power supply is below 11.5V	➔ Check the power supply ➔ Eventually, replace the battery ➔ Add one more solar panel
INTPOWER	The flag is raised if the level of the internal battery (if any) is below 6V or above 9V.	➔ If the level of the internal battery is stable but out of bounds, return the station.
SHORTPOWER	This alert indicates that the external power shortage will occur within 3 days, based on the current estimation.	➔ Check the power supply ➔ Eventually, replace the battery ➔ Add one more solar panel
DISKERROR	This alert is raised if the station encounter a storage access error.	➔ Reboot the station to perform a disk check (this should be automatic). ➔ Replace the storage medium
NODISK	No external storage is detected.	➔ Check twice that the error is real ➔ Install a storage medium. ➔ If a medium is already installed, replace it.

GPS	This alert is raised if some error concerns the GPS receiver.	➔ Replace the GPS. ➔ If the problem remains, replace the digitizer.
GENERAL	Some unidentified error is reported by the station.	➔ Connect to the station, send the 'selftest' command. ➔ Reboot..
REBOOT	The station has booted less than 12 hours ago.	➔ The flag will lower after 12h.
NOISE	The noise level is too low or too high, indicating a problem with the sensor (cable, mass-centering required ...).	➔ Check the sensor cable, and power supply. ➔ Send a mass centering command.
NOISEOOB	At least one channel reports STA or LTA out of bounds (as defined in the stalta file).	➔ Check the sensor installation. ➔ Check signal without sensor. ➔ Send calibration pulse. ➔ Adjust thresholds to the new weather/micro seismic conditions.
OLDWRITE	The last write access does not fit the last write command (mostly occurs on PC-based systems).	➔ Reboot if the problem remains (should be automatically corrected).
NORECORD	Station should be recording data but does not.	➔ Reboot if the problem remains (should be automatically corrected).
BUGGYTIME	Some time inconsistency has been detected.	➔ Check the GPS receiver. ➔ Set digitizer time (for titan-based digitizers)/
TIMEDISC	Station time seems strange, please check (Titan based stations only). The digitizer time is probably false by <i>N</i> minutes exactly.	➔ Carefully set digitizer time.
NOISE	The noise level is too low or too high, please check the signal. One or more components may be out of order, seismometer may be tilted, or even disconnected, or not powered.	➔ Visually check the waveforms.
NOISEOOB	The STA or LTA is out of the bounds defined by the user.	➔ Visually check the waveforms.
<i>Missing process flags (theses flags may be raised before and reboot)</i>		
OSHWWW	Web server is not running.	➔ Reboot.

OSHCMD	OSH command line server is not running.	→ Reboot.
TRIGGER	Trigger process is not running.	→ Reboot.
DISKMGR	Diskmgr process is not running.	→ Reboot.
ACQUISIT	Acquisit process is not running.	→ Reboot.
CONFIGURATION	Configuration process is not running.	→ Reboot.
SYSD	Sysd process is not running.	→ Reboot.
GPSD	Gpsd process is not running.	→ Reboot.

SAGE specific alerts

SAGEPORT22	No data has been synchronized over port 22 since 4 days.	→ Contact the local system administrator of the station, check that port 22 TCP is allowed for outgoing connections.
SAGEPORT79	No earthquake has been selected by the station since 4 days.	→ If no earthquake occurred since 4 days, ignore the alert, but ask the local system administrator to check that port 79 TCP is allowed for outgoing connections.