

System Viewer



Sarah Pyke and Stuart Johnson
(sarah.pyke@imsi.org and stuart.johnson@imsi.org)

March 2023

Reviewed by:
Matthew Thorne
(matthew.thorne@imsi.org)

Document Number:
IMS-DOC-SystemViewer-202303-SPv0

1 Introduction





Both Synapse and Ticker 3D can show the live state of the system. Synapse has more details as to the current state of the system and is the intended tool for managing the system. Ticker 3D has a more basic view that is intended to be available for a quick glance without needing to open Synapse.

The system state is calculated in real-time, and both Ticker3D and Synapse attempt to show the latest live information. This information might be different to what is presented in the system reports, as the information in these reports is calculated over a time period (e.g. 1 month) and uses non-real-time data.





2 State Colours (both Synapse and Ticker 3D)

Devices can have a variety of states. Their general meanings are specified below, and states are inherited from parent devices. For example, if a netSP is in the error state, then both netADC and site will also display the same error state.

2.1 GS/netSP/xES/xPOD/xSP/netSPX






State	Meaning
 Good	Online, everything is good.
 Warning	A temporary loss in communication. Could be caused by: restarting, updating, configuring, loss of power, or loss of network connection.
 Error	A more permanent loss in communications. Could be caused by: loss of power, or loss of network connection. Should be investigated if this state sticks.
 Disabled	In general, an SP should not be in this state. If it is, investigate.

2.2 netADC

State	Meaning*
 Good	Online, everything is good.
 Warning	A temporary loss in communication. Could be caused by: restarting, updating, configuring, pairing, loss of power, or loss of network connection.
 Error	A more permanent loss in communications. Could be caused by: loss of power, or loss of network pairing. Should be investigated if this state sticks.
 Disabled	In general, an ADC should not be in this state. If it is, investigate.

* if the SP is in a worse state, that state is inherited.




2.3 Site/Sensor

State	Meaning**
 Good	Currently receiving data from this site.
 Disabled	Site is marked as not associable. Data will be recorded but not associated into an event with other sites.
 Warning	Site is expecting data but is quiet (not recently triggered, this is not an issue).
 Error	Site is not licensed and will not record data.
 Dummy	Site is marked as a dummy site.

** if SP or ADC is in a worse state, that state is inherited.







2 Ticker 3D Icons














There are several status icons that can appear on a device in Ticker 3D. Below is the list of possible icons and their meaning.


Icon	Meaning
	The device currently has a non-critical issue. The number dictates how many issues.
	The device currently has an issue. The number dictates how many issues. At least one of the issues is considered critical.
	The device currently has an issue.

3 Synapse Icons

There are several status icons that can appear on a device in Synapse. Below is the list of possible icons and their meaning.

Icon	Meaning
	The device currently has an issue. Check the issue monitor to see what it is.
	The device currently has an info message. Check the info monitor to see what it is.
	The device currently has a timing issue. Make sure all timing related equipment and software is operating correctly. Specifics depend on system configuration (e.g. PTP, GPS etc.)
	The device is currently set to use software ATUs. Software ATU is less accurate than hardware ATU, but can be used as an alternative while hardware problems are resolved.
	The device is not registered.
	A UPS test is currently being performed.

Icon	Meaning
	The UPS is currently good and is connected to AC power.
	The UPS is running on battery power or is in a bad state (e.g. low voltage).
	There is a comment on this device.
	A non-preferred ADC from a different container is connected to this SP.
	The device is connected via HTTPS.
	A preamp is connected to the device.
	There is an issue with the preamp that is connected to the device.
	This site has an XGM sensor (extreme ground motion) and the XGM is offline.
	This site has an XGM sensor and the XGM is online.
	The site is a smart sensor and has communicated with Synapse.
	The site is a smart sensor, but has not communicated with Synapse.
3G	The site is a triaxial geophone.
3A	The site is a triaxial accelerometer.
3	The site is a triaxial of unknown kind.
1G	The site is a uniaxial geophone.
1A	The site is a uniaxial accelerometer.
	The site is unlicensed.
	The site is marked as archived.
Att	The site has an attenuator attached.

Icon	Meaning
REF	The site is marked as a reference site (e.g. for a pneumatic source driver).
	One or more components of this site have been marked as broken by the test pulse classifier.