Overview

This document is intended as an overview of New XINA, with basic things you should know.

New Terminology

Some XINA terms have changed, to be more accurate or to better support a variety of missions.

New XINA	Definition	Related Old XINA Terms
Mnemonic	a named data channel or field	*hk*, *housekeeping*, or *housekeeping field*
Event	a time with a label; might be an *Instant*, which is just one moment in time, or it might be an *Interval*, with a start and end.	a category that includes *TIDs*, *markers*, *messages*, *alerts*, *spectra*, and more
Spectrum	a multi-dimensional data set associated with a single time or time range	a category that includes *scans*
Nominal Range	a green, yellow, or red value range for a particular mnemonic	a category that includes *limits*, *expected values*, and more
Notebook	a digital lab journal	*journal*

XINA Navigation

Coming soon

Tools

XINA tools are now divided into three broad categories.

Visualization

Visualization tools are primarily focused on looking at data within XINA, like charts and tables. Most of them also support some sort of data export.

- The **Mnemonic Plot** and **Mnemonic Trending** tools plot mnemonic data; the former against a single time range and the latter against many.
- The **Events** tool centers around a table of events and can group them in arbitrary ways.
- The **Spectra Viewer** is what you need for science data, and gives many options for presentation and organization.

- The **Nominal Range Trending** tool is a new option for instrument health reports, using a table that checks mnemonics against nominal ranges at specified intervals.
- The **Diagram Viewer** and **Diagram Simulator** animate custom dashboards and diagrams with mnemonic and event data. The *Viewer* uses real data, and the *Simulator* is designed around simple human-readable "sequence files".

Exporting

Export tools are built around downloadable data sets and reports. While other tools may support exporting data, these tools are *only* for exporting.

- The **Mnemonic Export** and **Mnemonic Trend Export** tools allow you to perform or automate high-volume data exports. They're ideal when you want to look at months of data at a time.
- The **Packages** tool is the best way to browse existing export products.

Management

Management tools are designed for advanced users to control XINA data and operations.

- The **Mnemonic Management** tool is for managing mnemonics, particularly correcting issues with definitions and aliases.
- The **Model Management** tool helps with managing mining processes and scheduled tasks.
- The **Nominal Range Management** tool is for managing nominal ranges. It also supports exporting the definitions in various formats.
- The **Diagram Editor** allows you to set up the diagrams used by the *Diagram Viewer* and *Simulator*.

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