

GMSEC

GSFC Mission Services Evolution Center



At A Glance

The GMSEC API Monitor is a Windows-based tool for monitoring the published messages on the GMSEC bus.

Features

- Provides overview of machines and components on the GMSEC bus
- Provides charts for message traffic on the bus (by bytes, number of messages, and component lifetime)
- Provides message type and message timeline charts for each component

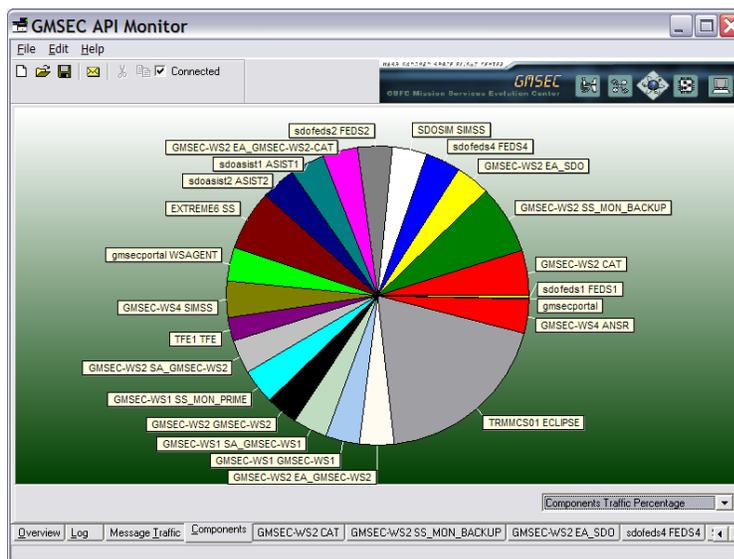
Benefits

- Easy to install and use
- Provides statistics and views unique to the API Monitor, including component charts and message traffic

NASA's GMSEC API Monitor

Summary

The GMSEC API Monitor is a Windows-based tool for monitoring the published messages on the GMSEC bus. The monitor compiles aggregate statistics and builds graphs and charts displaying message types sent by each component on the GMSEC bus. There are four aggregate views on the data: Overview, Log, Message Traffic, and Components. In addition, every time the API monitor detects another GMSEC component, it creates a new page which will provide further graphs specific to that Component's messages.



GMSEC API Monitor GUI

Implementation

The GMSEC API Monitor is a Microsoft Windows application, built using the Delphi wrapper of the GMSEC API. When the GMSEC API Monitor receives a message, it attempts to determine the GMSEC Component which sent the message, using the GMSEC-standard "Node" and "Component" fields to identify the component. The monitor then compiles aggregate statistics for the entire system as well as statistics for each component. From these statistics, it builds its graphs and charts. There are four aggregate views on the data: Overview, Log, Message Traffic, and Components. In addition, every time the API monitor detects another GMSEC component, it creates a new page which will provide further graphs specific to that Component's messages.

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