

Level III to Diagram: Logging

Req ID	Requirement	Comments	Diagrams
3.1.4 Security Requirements			
SEC0030	The LAT ISOC shall maintain user profile data for all authorized users of the system, including username, password, and privileges.		Logging
3.1.6 Web Page Requirements			
WEB0010	The LAT ISOC shall maintain a password controlled website for community access to LAT ISOC products.	supports 4.10 as well	Logging
3.3.1.4 Housekeeping Data Quality & Stats			
TLM0500	The LAT ISOC shall automatically perform data integrity checks, and record the results.	This includes at least a check of the anno12 header for each packet.	L0 File Ingest, Telemetry Monitoring, LAT Configuration
TLM0520	The LAT ISOC shall record the quality and completeness of the telemetry received.		L0 File Ingest, Telemetry Monitoring, LAT Configuration
3.3.6.2 Command History and Records			
CMD0200	The ISOC shall archive all LAT Timelines sent to the GSSC and MOC.		Logging, Mission Planning
CMD0210	The ISOC shall maintain a history, viewable with a web browser, of all ATS, RTS and real-time commands sent to the LAT.		Mission Planning, Logging

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3.4.1 Ground System Monitoring Requirements			
GMON0010	The LAT ISOC shall monitor the LAT ISOC components to determine component failures affecting real-time operations.	Motivated by MOC5600	Logging
GMON0020	The LAT ISOC shall report socket failures as event messages.		Telemetry Monitoring, Logging
3.4.4 Event Message Requirements			
EVT0010	The LAT ISOC shall generate and display event messages indicating telemetry processing status, limit violations, configuration changes, and all error and warning conditions.		Logging
EVT0020	The LAT ISOC event messages shall include a UTC timestamp.		Logging
EVT0030	The LAT ISOC event messages shall include a text description of the event.		Logging
EVT0040	The LAT ISOC shall display all event messages in RT.		Logging
EVT0050	The LAT ISOC shall provide the capability to enable event messages.		Logging
EVT0070	The LAT ISOC shall provide the capability to filter event messages by type.		Logging
EVT0080	The LAT ISOC shall save all event messages in event log files.		Logging

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EVT0090	The LAT ISOC shall save all event messages to event log files in the chronological order in which they are generated.		Logging
EVT0100	The LAT ISOC shall provide the capability to display, print, close and start new event log files.		Logging
EVT0140	The LAT ISOC shall provide the capability to allow other LAT ISOC components to inject event messages into the LAT ISOC event log.		Logging
3.4.9 Anomaly Tracking and Notification Requirements			
ATNS0010	The LAT ISOC shall maintain a database of all pre-launch and post-launch instrument anomalies for the life of the mission.		Logging
ATNS0015	The LAT ISOC shall receive, process, and respond to LAT instrument alert messages.		L0 File Ingest, L0 Data Processing, Logging
ATNS0020	The LAT ISOC shall allow users to generate, view, edit, print, and withdraw anomaly reports.		Logging
ATNS0100	The LAT ISOC shall automatically receive notification of anomalous LAT events from the MOC.	Also supports GEN0050	L0 File Ingest, L0 Data Processing, Logging
ATNS0140	The LAT ISOC shall automatically search log files for anomalous events.		Logging
ATNS0150	The LAT ISOC shall identify messages that indicate anomalous events.		Logging

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ATNS0270	The LAT ISOC shall allow a user to define and update a database containing GLAST team members, contact information, and criteria for notification.		Logging
ATNS0280	For every anomalous event, the LAT ISOC shall provide the capability to send notifications to one or more GLAST team members.		Logging
ATNS0290	The LAT ISOC shall automatically initiate notifications to applicable GLAST team members within five minutes of identifying an anomalous event.		Logging
ATNS0310	The LAT ISOC shall initiate anomaly notifications when the LAT ISOC is not staffed.	also supports GEN0050	Logging
ATNS0320	The LAT ISOC shall provide the capability to notify applicable GLAST team members via email.		Logging
ATNS0330	The LAT ISOC shall provide the capability to notify and receive acknowledgements from GLAST team members via 2-way alphanumeric pagers.		Logging
ATNS0360	The LAT ISOC shall send notifications to a secondary GLAST team member whenever notification acknowledgements are not received from the primary GLAST team member within a user-defined period of time.		Logging

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ATNS0380	The LAT ISOC shall maintain a log of notifications and acknowledgements.		Logging