

Detection Confidence & Statistical Analysis

Charter & Charge

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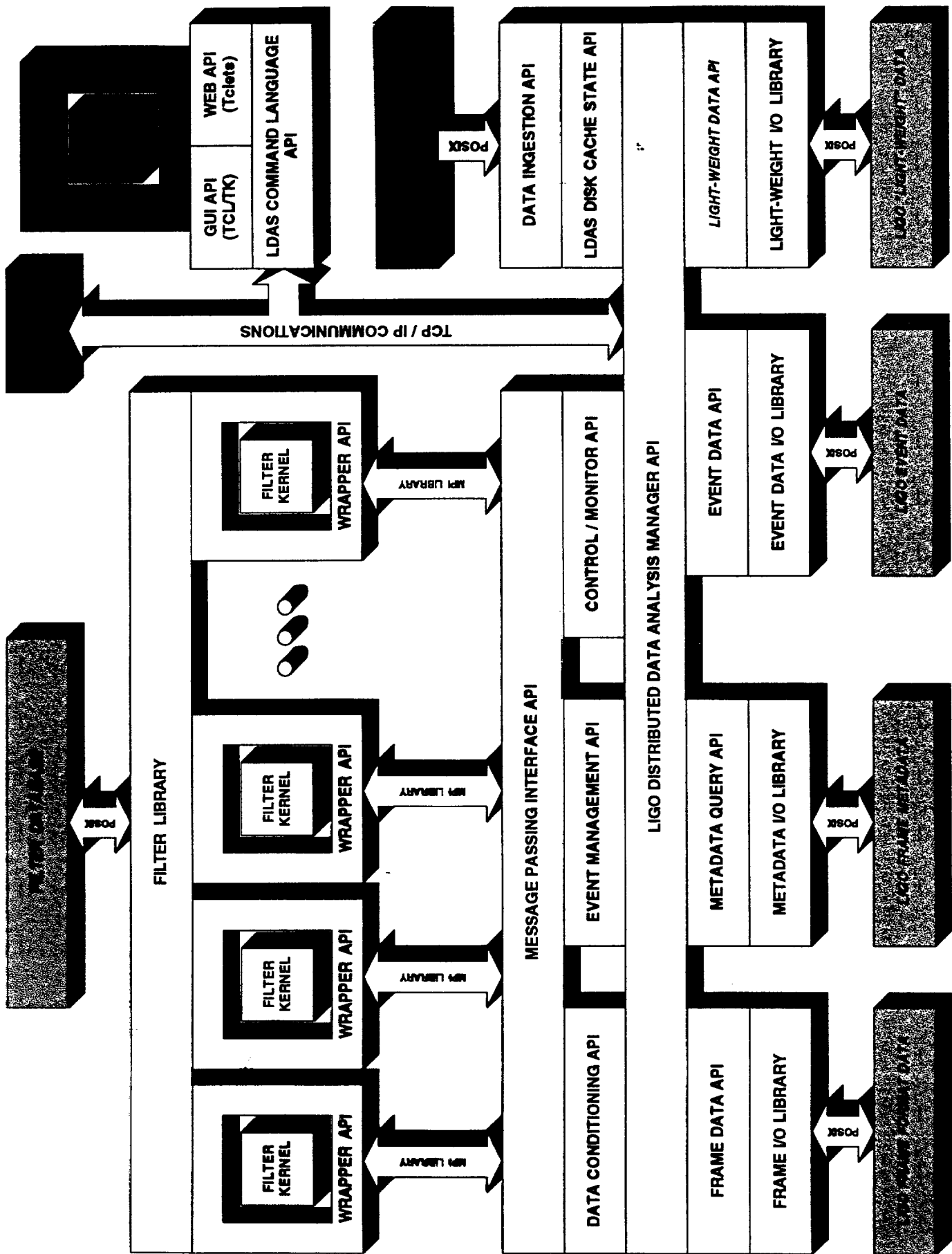
Tasks & Priorities { (single & multi-detector) statistical tests for detection, parameter extraction
Non-grav. source (particle, astronomical) correlations
Analysis Systems tests (V&V), calibration, etc.
On-line/off-line functions

Context

Collaboration supplies code for filters & associated data access/motion instructions

Integrated Data Analysis System

	On-line	Off-line
Functions	time-critical	! time-critical
Priority	Keep up with data	polished quantitative measures det./est. confidence
Focus	Vetos & triggers	in depth analysis selected data
Corollary	Cast wide net	Only keep Fish



Functional Requirements : Principles

What needs to be operating when data flows
(commissioning - before operations!)?

Collaboration takes responsibility for delivering
Validated, calibrated, documented analysis engine
for

Multi-dataset {
 Selected deterministic, modeled sources
 "Unmodeled" deterministic/burst source
 Targeted periodic source
 Stochastic signal

Validation & Verification

High Priority Software test-bench infrastructure

Modeled frames: known statistical properties
Ability to inject sources
To test, calibrate analysis engines

Detection

How do we "escalate" an event to a detection

Collaborative Product Analysis Engine:

Organizational Issues

High
Priority →

Software project management/control procedures

Task oriented

Collaboration-wide

Project planning, scheduling

how we monitor progress: milestones? reviews

functional requirements

Design spec: e.g., stat tests to meet func. ops.

Test specs.

Implementation Spec; ~~Design~~ tests to algorithms

Implementation: Algorithms to code

Systems testing:

Migration

etc...

Change Control

Bug Tracking, Requirements, Design, Implementation

Prioritization

Approval

Code Library

Release schedules, Librarians

Note 1, Linda Turner, 04/21/98 09:49:47 AM
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