

Brief description of FASST project and features	Priority	Ease of implement.: simple, medium or	Primary (Name)	Note	Others Impacted	Current MAST status	Brief description	Other resources
DATA DISCOVERY SERVICES; PORTAL AND WEB SERVICES	High		Interface team	Standards		Web services project	DATA DISCOV	Requires web services
Data-service and holdings descriptions	High		Interface team	Class-X, Simbad		Web services project	Data-service all	Requires web services
Astro-browse style method for acquiring info on objects	High		Interface team			Web services project	Astro-browse s	Requires web services
Google-style search for portal contents	High		Interface team	Standards		Web services project	Google-style s	Requires web services
Query description standards	High		Interface team	Standards		Web services project	Query descripti	Requires web services
Data retrieval protocols (& standard descriptions)	High		Interface team	Standards		Web services project	Data retrieval p	Requires web services
Expert domain definitions, to organize data trees	High	s	Interface team	Science Div		Web services project	Expert domain definitions, to organize data	Requires web services
My-portal customization: accounts	Medium	s	Interface team			Web services project	My-portal custod	Requires web services
My-portal customization: data tracking	Medium	s	Interface team			Shark Cage I	My-portal custod	Requires web services
My-portal customization: proposal tracking	Medium	s	Interface team			Web services project	My-portal custod	Requires web services
My-portal customization: deadlines, due dates	Medium	s	Interface team			Web services project	My-portal custod	Requires web services
My-portal customization: automatic data serach	Medium	s	Interface team			Web services project	My-portal custod	Requires web services
My-portal customization: automatic literature search	Medium	s	Interface team			Web services project	My-portal custod	Requires web services
My-portal customization: news (docs, software, press releases)	Medium	s	Interface team			Web services project	My-portal custod	Requires web services
Agent discovery	Low	c	Interface team			Web services project	Agent discovery	Requires web services
Simultaneous STSci catalog resources: simultaneous search of GSC2+SDSS+MAST and simple product production (sub-catalogs)	High	s	Interface team + SDSS + catalogs		Catalogs	to be assigned	Simultaneous STSci catalog resources: Expand	
Expand catalog searches from different services, sky location-based: expand search to Chandra, 2MASS, Vizier	High	s	Interface team		Catalogs	ADEC	catalog searches from	
Cross-correlation query service: access multiple catalogs, extract information from GSC2, 2MASS, SDSS; use joint object IDs (pre-existing cross-ID, dependent on database) ; or allow specification of nearest neighbor or brightest nearest neighbor.	Medium	c	Interface team+ science	More useful for object cats than obs. cats.	Catalogs	Not yet possible: NVO	Cross-correlation query service: access multiple	
Plugin dev: plot query results	Low	m	Interface team	ESS		Not in queue	Plugin dev: plot	XML standards makes this easy. But it's not immediately useful for observation logs.
Improve coordinate solutions	High	c	Insrument teams	SHARE	Catalog access, catalog update, Pipeline update, data reprocessing	Will wait on inst team: ARCHDEV group	Improve coordinate solutions	

<p>Derive and store instrument independent measures that quantify data quality and facilitate searches. Populate catalog: limiting magnitude or surface brightness, sky or extended emission estimate, image statistics, estimated number of sources, estimated number of cosmic rays.</p>	<p>High</p>	<p>c</p>	<p>Instrument teams+ Pipeline</p>	<p>New cat. Fields to populate, repro. Necessary, incremental updates?</p>	<p>ESS/AB: Catalog access: update, data reprocessing</p>	<p>Contingent on inst. teams, much science input required to max. usefulness. ARCHDEV</p>	<p>Derive and store instrument independent measures that quantify data quality and facilitate searches. Populate catalog: limiting magnitude or surface brightness, sky or extended emission estimate, image statistics, estimated number of sources, estimated number of cosmic rays.</p> <p>Spin-off of image combination: save statistics for catalog. Put in the image comb. requirements.</p>
<p>Facilitate new WCS coordinate standards (new as of fall, 2002)</p>	<p>High</p>	<p>s</p>	<p>Instrument teams</p>	<p>Standards</p>	<p>Data reprocessing, catalog updates</p>	<p>Contingent on inst. Teams ARCHDEV Treasury program, Legacy archive prog and large prog PIs contacted, prep questions and contact established. DADS requirements: retrieval/ingest/cat</p>	<p>Facilitate new WCS coordinate standards (r</p>
<p>POLICY DEV: Standardize user data formats and methods for user data back to MAST</p>	<p>High</p>	<p>s</p>	<p>AB</p>	<p>MAST Standards</p>	<p>Pipeline, ESS, some interface; to allow custom?</p>	<p>Legacy archive prog and large prog PIs contacted, prep questions and contact established. DADS requirements: retrieval/ingest/cat</p>	<p>POLICY DEV: Standardize user data formats and methods for user data back to MAST</p>
<p>Co-add images and spectra</p>	<p>High</p>	<p>c</p>	<p>Instrument teams</p>	<p>SHARE</p>	<p>Pipeline, ESS, some interface; to allow custom?</p>	<p>DADS requirements: retrieval?</p>	<p>Co-add images and spectra</p>
<p>Allow users to extract data without sending full datasets (e.g. rip through 1000 spectra, send continuum at 1400 Angstroms back) (e.g. photometry, catalogs, equivalent widths. This amounts to allowing (restricted) access to user scripts at the end of the standard pipeline.</p>	<p>Medium</p>	<p>c</p>	<p>Pipeline + ESS</p>	<p>Proposal (call), instrument team script verification</p>	<p>Proposal (call), instrument team script verification</p>	<p>DADS requirements: retrieval?</p>	<p>Allow users to extract data without sending full datasets (e.g. rip through 1000 spectra, send continuum at 1400 Angstroms back)</p>
<p>POLICY DEV: Develop policy for HST instrument retirement & coordinate with Hubble Division</p>	<p>High</p>	<p>s</p>	<p>AB+Hubble Div</p>	<p>AB+Hubble Div</p>	<p>AB+Hubble Div</p>	<p>Develop policy for HST instrument retirement & retirement &</p>	<p>Develop policy for HST instrument retirement & retirement &</p>