Program Increment 3 Objectives

NO ISSUE - Nothing is impeding progress on this objective. It is expected to complete in the PI.

WARNING - Team is being slowed by an problem which, if not resolved, could prevent this objective from completing during the PI.

ISSUE - Issue has been encountered which prevents this objective from completing during the PI.

EED COMPLETE - All EED work is complete on this objective, but additional work needs to be done by an external group for the entire objective to work. (DAAC Installation, Provider Testing, etc.)

COMPLETE - Objective is complete and deployed in OPS.

Rank	Capability	Objective	PI Status	Notes	Team
1	CMR Workload in the Cloud	Stand up a workload environment to assess cost and performance of running CMR in NGAP.	COMPLETE	Completed PI-3 objectives, however we uncovered an issue with AWS's DMS replication which fails to replicate BLOBs greater than 4K. We were able to work around it to accomplish our Workload objectives, but will need to address it in order to accomplish PI-4 objectives.	CMR in the Cloud
1	CMR Workload in the Cloud	Design and implement workload performance drivers to assess performance of running CMR in NGAP.	COMPLETE		CMR in the Cloud
1	CMR Workload in the Cloud	Provide build and deployment support for these efforts. Criteria: Each of the supported projects has a CI task to build and deploy to their respective environments	COMPLETE	The build plan for CMR in cloud is complete and deployed to SIT and WL via Bamboo on 1/6.	CI/CD
1	CMR Workload in the Cloud	Provide operational and onboarding support to the CMR (Workload) in the Cloud Feature team	COMPLETE		NGAP
2	NGAP Cost Model	Provide and update instance tagging to the provide GP_MCE sufficient data for billing and tracking	ISSUE	The final cost report on 1/6 still shows untagged instances. While this will be an ongoing activity in future PIs, our goal for the current PI was to successfully have tagged all existing instances so that we could deliver a valid prototype report.	NGAP
3	NGAP On-boarding Prep work for Cumulus	Gather requirements, document, and request services to support a future onboarding of Cumulus	COMPLETE		NGAP
4	NGAP Support for Containers	Move toward the ability to deploy and operate Docker containers via ECS in NGAP	COMPLETE	We've completed the letter and most of the intent of this capability. There is still work to be done, but I'd consider the major policy hurdles cleared and we have a (snapshot-based) understanding of what is left, which is minor and largely in the CSPO's hands.	NGAP
5	GITC: Support for Cumulus in the Cloud	As ESDIS, I want Cumulus to have resources required to run in the GP-MCE so I may ingest data into the cloud Criteria: Approved Docker AMI exists for GP-MCE Approved Docker container images exist in GP-MCE All Cumulus resources have been identified and documented CSSO-controlled resources for Cumulus (e.g. IAM roles and S3 buckets) have been provisioned	COMPLETE		GITC

5	GITC: Support for Cumulus in the Cloud	Provide Cumulus ability to run a compute-oriented "specialized" Docker container as required by the application	COMPLETE		NGAP
6	PUMP Shutdown	Catalog REST will be transitioned to CMR and deployed in SIT, WL, and UAT.	NO ISSUE	Plan to cutover on Friday, 1/6/17.	CMR Heritage
6	PUMP Shutdown	Browse Scaler will be transitioned to CMR and deployed in SIT, WL, and UAT.	COMPLETE		CMR Heritage
6	PUMP Shutdown	As a CMR Client, I can associate an existing token with a provider through a SOAP API.	COMPLETE		CMR Heritage
6	ICESat-2 Low Level Data Services	Develop low-level ICESat-2 data with parameter subsetting for an initial selected (partial) list of ATL products (#6)	NO ISSUE		L1/L2
6	PUMP Shutdown	Deploy DQS Functionality to UAT to support PUMP shutdown	NO ISSUE		MMT
6	PUMP Shutdown	Deploy Order Policies functionality to UAT to support PUMP shutdown	NO ISSUE	Code complete. Waiting on deployment.	MMT
6	PUMP Shutdown	Deploy ACL support to UAT to support PUMP shutdown	NO ISSUE	Code complete. Waiting on deployment.	MMT
6	PUMP Shutdown	Deploy Order Option & Assignment create/read/update functionality to UAT to support PUMP shutdown	NO ISSUE		MMT
7	Access Control and Group Cutover	Legacy Services will read and write ACLs to Access Control Service in SIT.	ISSUE	We need to do additional performance improvements in workload prior to cutting over.	CMR Heritage
7	Access Control and Group Cutover	As a CMR Client, I can search for ACLs by permitted concept id.	NO ISSUE	Code has been implemented. Waiting on deployment.	CMR Heritage
7	PUMP Shutdown - ACL, Ordering and Service	Provision creation of catalog-rest in cmr_app role so we can build and deploy it. Criteria: Build and deployment of catalog-rest legacy component in Bamboo	COMPLETE		CI/CD
8	Access Control and Group Cutover	Provide build and deployment support for catalog-rest. Criteria: Build and deployment of browse-scaler components in Bamboo	COMPLETE		CI/CD

10	GITC: Cost and Performance	As ESDIS, I want GIBS performance using GitC to be comparable to performance using on-premises GIBS so users are not adversely affected by the transition Criteria: Apples-to-apples performance numbers have been obtained for tile serving and show comparable performance Performance of GitC WorldView is qualitatively similar to performance of on-premises WorldView	COMPLETE		GITC
12	Prototype large number of DataObjects and forms for parameter subsetting	Validate EDSC's ability to display ESI form w/ 1000+ parameters	NO ISSUE	Code complete. Waiting on deployment.	EDSC
12	Prototype large number of DataObjects and forms for parameter subsetting	Provide UI/UX recommendations for long parameter subsetting	COMPLETE	Wireframe delivered.	UI/UX
13	As ESDIS, I want to perform a study on various UST COTS options so that we can determine a replacement product for Kayako. CRM is a key component.	Provide a recommendation for Kayako replacement	NO ISSUE		ED
14	Improve Relevancy - Community Usage	Implement relevancy improvements based on community usage.	COMPLETE	Community usage has been deployed.	CMR

15	Prototype Puppet 2016.x	As an operations engineer, I need to prototype the upgrade of puppet to its latest release, prior to when our installed release (3.8.0) goes EOL.
		
		Criteria:
		A functional Puppet installation running on a local vagrant environment
			ISSUE	Work accomplished so far:
				
				• We have identified the proper upgrade process method (New Server -> migrate one role at a time to new Server).
				• Begun systematic migration prototyping for the 50+ existing modules, identifying problems and fixing on a role by role basis (each Host has a single role, each role has one or more profiles, each profile has one or more modules).
				• Established internal WIKI page detailing progress made (search for "puppet upgrade" in the internal wiki)
				• Complications:
				  • we've been using older modules (don't fix what isn't broken), ca. 2014
				  • Puppet 3.x to Puppet 2016.x changed the API and module syntax. 4.x syntax (what PE 2016.x is based on) was available in 2015+.
				
				Please note that...
				
				1. Our current installation of puppet will continue to run, as is, even after their "official support" for our current version expires.
				2. We have gotten assurances that Puppet will continue to work with our team to help us migrate our installation to the latest version.
					CI/CD EI

16	Improve Relevancy - Temporal Overlap	Implement relevancy improvements based on temporal overlap.	COMPLETE	Community usage has been deployed to SIT.	CMR
17	AGU UI/UX Presentation	Deploy EUI and recommendations for EED/Blink AGU demo	COMPLETE		UI/UX
18	Programmatic Access for 8.4.3	Support Programmatic Access user stories as defined for SDPS Release 8.4.3, including ICESAT-2 low-level data with parameter subsetting	EED COMPLETE		SG
19	End to end exposing OpenDAP Variable and Spatial Subsetting	Prototype automated creation of a sample UMM-Var schema by parsing granule level metadata.	COMPLETE	During an end-to-end services meeting with ESDIS it was determined to take a different approach as a starting point for UMM-Var. This new objective now replaces the previous objective of "Design UMM-Var API and implement schema.".	CMR

19	End to end exposing OpenDAP Variable and Spatial Subsetting	Prototype automated creation of a sample UMM-S schema by parsing WCS and OPenDAP and/or ESI GetCapabilities responses.	COMPLETE	During an end-to-end services meeting with ESDIS it was determined to take a different approach as a starting point for UMM-Var. This new objective now replaces the previous objective of Mock UMM-Var display on collection details panel to prepare for upcoming UMM-Var spec support	EDSC
21	NGAP: Documentation	Begin documentation of the application on-boarding process	NO ISSUE		NGAP
23	Generate an ASCII output file for a single GLAS HDF5 data granule file	Develop a Tabular ASCII output file format for GLAS HDF5 data granules (#23)	NO ISSUE		L1/L2
26	GITC: Extend Ingest	As ESDIS, I want GIBS imagery to be served in formats required by the GIBS ICD Criteria: Imagery is available via WMS, WMTS, TWMS, and REST, as required. Imagery service is highly available	NO ISSUE		GITC
27	ICESat-2 Low Level Data	To prototype forms that can handle a large number of data objects parameter subsetting ICESat-2 data. This functionality will be delivered to all DAACs but will be primarily used at NSIDC.	EED COMPLETE		Science, ConfigTools,L1/L2
28	Reconfigure Riverdale environment to support ICESat-2 requirements	To reconfigure the Riverdale development environment by adding more disk space to support ICESat-2 data size requirements. This new hardware will be added to Riverdale only.	NO ISSUE	Scheduled for a PM during PI Planning.	SDPS_EI, ConfigTools
29	As a DAAC operator, I would like to be notified when checksum corruption is detected	To notify the DAAC operator when checksum corruption is detected during the HTTP download process. This functionality will be delivered to all DAACs	EED COMPLETE		ConfigTools
30	2-Factor Authentication	Implement 2FA for Splunk.	ISSUE	Resources were pulled to work on migrating ECHO Mac OSX servers since that work ran into problems.	EI
30	Implement the results of the findings across all of EED applications and suggestions for the COTS products.	Determine how we will integrate the ECC with Launchpad/2FA	ISSUE	During post-PI planning conversations, the entire approach / function of the ECC may be revised which would make this work irrelevant. While a high level approach exists to meet this objective, it will not be more fully flushed out until after an ECC Specification workshop that we will be having in PI4.	ED
30	Implement the results of the findings across all of EED applications and suggestions for the COTS products.	Identify ED applications that require Launchpad integration.	COMPLETE		ED
35	Prototype shape file format implementation	Prototype a Shape File format for point data (#35)	NO ISSUE		L1/L2
38	External Request IDs on ECS orders	Add External Request IDs on ECS order notification emails	NO ISSUE		SG
40	Enhance EGI to support the WCS 1.x protocol for utilities	Prototype WCS Protocol for a subset of owslib, GDAL Translate, and GDAL Command Lite	NO ISSUE		SG

41	As a GIBS end-user I want to find GIBS documentation on the Developer Portal.	Provide GIBS documentation in the EDP.	COMPLETE		ED
43	As an application I want to create and manage groups.	Addition group management functionality and API support to update user groups and retrieve group info with user profiles.	COMPLETE		ED Login
44	Automated Application Scanning on Existing Applications	As a security representative for the Earthdata Custom Applications, I want to automatically scan the Conduit Web, Conduit CMS, MMT, and URS4 applications in the on-premises SIT environment. Criteria: Specific tasks in Bamboo for scanning the 4 identified applications that include an artifact of the results of the scan.	ISSUE	Resources were pulled to work higher priority issues.	CI/CD and EI
53	As a developer, I want to have a common place to host large, shared files/images (CDN), so that I can better manage the requests for these items and its impact on the main sites.	Create strategy for migrating the Earthdata CDN to NGAP/AWS.	COMPLETE		ED
54	Order Chunking	Design a client-side solution for order chunking	COMPLETE	This feature has been merged and tested in SIT. Scheduled for release to UAT on 12/14 and ops on 12/28.	EDSC
60	As an application owner I wish to host my private documentation in the Developer Portal.	Provide private/restricted docs in the EDP.	COMPLETE		ED
61	As a user of the Developer Portal, I want to be able to search the Developer Portal for content.	Add search capabilities to the EDP	ISSUE	Blocked on GSA NGAP Firewall issue. EI-5605 - JIRA project doesn't exist or you don't have permission to view it.	ED
62	Move SDPS code into ECC GIT	Define a new OPS concept for SDPS development processes, tools, and environment using ECC and GIT; and write a set of stories so that the OPS concept can be implemented as a set of stories in future PIs. Prototype trying to build SDPS source code in a "non-EDF/Clearcase" environment to identify Clearcase and other COTs dependencies Identify CM processes so that they can be compared to those in other teams	COMPLETE	The NCR/Epic number in TTPro is 8053467 ttstudio://links.gsfc.nasa.gov:1566//Operations_NCRs/dfct?recordID=16208 Code has compiled and conops is written.	Clearcase Migration

68	As a user of the Earthdata Environment Configuration Service I want it to be able to manage the service through the ECC; Develop tighter security and encrypt the backend.	Create EECS user roles/permissions model.	COMPLETE		ED
	(Walk-on)	Develop updated low-level data processing for SMAP - Phase-4, as defined by a DAAC-approved set of stories (NSIDC)	NO ISSUE		L1/L2
	NGAP on-boarding workflow requirements	Develop requirement for the NGAP on-boarding workflow	NO ISSUE		NGAP

MMT