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Earthdata Requirements Specification



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Earthdata Requirements Specification

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Preface

This document is under ESDIS Project configuration control. Once this document is approved, ESDIS approved changes are handled in accordance with Class I and Class II change control requirements described in the ESDIS Configuration Management Procedures. Changes to this document shall be verified by a Document Change Notice (DCN) and implemented by change bars or by complete revision.

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Abstract

This document provides the system requirements for Earthdata website and associated applications presented as a set of user stories following the Agile development approach.

Keywords : Earthdata, Status App, Developer Portal (EDP), Earthdata Code Collaborative (ECC), Feedback Module (FBM), Conduit CMS, Tophat ,Tophat2, Earthdata User Interface (EUI)

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1 INTRODUCTION

1.1 Purpose

The purpose of this document is to capture the system requirements for applications under the Earthdata Task.

1.2 Scope

This document covers requirements and user stories for the various custom applications under Earthdata (ED), namely:

- Feedback Module (FBM)
- Earthdata Code Collaborative (ECC)
- Earthdata Developer Portal (EDP)
- Earthdata StatusApp
- Tophat2
- Conduit Content Management System (CMS)
- Conduit Web
- Earthdata User Interface (EUI)

This document does not contain release notes or any version reporting. This document does not cover test criteria for any requirements or user stories.

1.3 Related Documentation

The latest versions of all documents below should be used. The latest Earth Science Data and Information System (ESDIS) Project documents can be obtained from Uniform Resource Locator (URL): <https://ops1-cm.ems.eosdis.nasa.gov>. ESDIS documents have a document number starting with either 423 or 505. Other documents are available for reference in the ESDIS project library website at: http://esdisfmp01.gsfc.nasa.gov/esdis_lib/default.php unless indicated otherwise.

1.3.1 Applicable Documents

The following documents are referenced within or are directly applicable, or contain policies or other directive matters that are binding upon the content of this document.

423-CDRD-EED2	Contract Data Requirements Document for EOSDIS EED2
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1.3.2 Reference Documents

The following documents are not binding on the content but referenced herein and amplify or clarify the information presented in this document.

NPR 2810.1A	Security of Information Technology document
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1.4 Agile Programming and Requirements Analysis

The Earth Observing System Data and Information System (EOSDIS) Evolution and Development 2 (EED2) teams are using Agile Programming methodologies throughout the software development lifecycle-including the requirements analysis phase. The process of developing requirements has not changed much from other software programming management methods such as waterfall or iterative methods. The two major differences between Agile and other methods are:

- a. A greater emphasis on stakeholder participation
- b. Requirements are allowed to evolve throughout the Agile development process to account for changing priorities, new requirements that were left out initially, or changes due to issues encountered during development and testing

These two differences may not seem all that different from other methods; however, requirements managed by Agile processes provide for a much more flexible framework from which to develop software.

In this document, requirements are captured as a set of User Stories written in the form:

"As a <role> I want to <action> so that I can <explanation>".

The requirement is told from the perspective from a user role instead of the generic "The system shall...". Requirements written in this form helps to refine the system requirement by identifying the user or consumer of the required functionality, the function that the user needs, and why this function is needed. The concept of providing value to the system user is reflected in the explanation of the user story form. This provides the rationale or the benefit of the requirement.

Requirements that begin "As the StatusApp, ...", do not refer to the older style of "The system shall..." statements. In the context of User Stories, the "StatusApp" takes an active role by ensuring that those processes in the workflow that are to be automated will be managed by the system itself. The action describes what needs to be done, not how it needs to be implemented. This allows the developer to choose from "Best Practices" techniques on how to best implement a requirement. The first principle of the Agile Manifesto is:

Our highest priority is to satisfy the customer through early and continuous delivery of valuable software. (<http://agilemanifesto.org/principles.html>)

The requirements and user stories for the Earthdata applications will be tracked and maintained using Atlassian's Jama Requirements Management tool. The user stories presented in this document are written to a Systems

Requirements level and will be kept in sync with the user stories maintained in Jama.

2 REQUIREMENTS

2.1 General System requirements

The following stories are related to supporting software development across the EED program.

Story ID	User Story
ED-STORY-474	The system shall provide access to an online code repository.
ED-STORY-475	The system shall provide a bug and issue tracking tool.
ED-STORY-476	The system shall provide a tool to manage requirements.
ED-STORY-477	The system shall provide a deployment tool that supports continuous testing and integration.
ED-STORY-478	The system shall provide a Wiki space for collaboration, documentation, and sharing.
ED-STORY-479	The system shall provide single sign-on capability for all the software development tools used on the EED program.

2.2 Earthdata User Interface (EUI)

The EUI is a collection of responsive design components, layouts, and best practice guides geared toward creating websites and applications within the EOSDIS ecosystem. Each component and layout has been designed specifically for Earth science-related projects, which eliminates some of the complexities of building a website or application from the ground up. Its adoption will ensure consistent markup, a unified look and feel, and a consistent user experience for end users, thereby increasing usability and accessibility.

Story ID	User Story
ED-STORY-174	Visitors shall see links in the footer to Earthdata social media accounts
ED-STORY-175	Visitors shall see documentation about all available components for the EUI
ED-STORY-176	System shall support a component to sort and navigate content using a faceted list
ED-STORY-177	System shall support a sidebar container to show related content and metadata
ED-STORY-178	System shall support the ability to position images left, right, center or block
ED-STORY-179	System shall provide access to a custom Earthdata font icon set

Story ID	User Story
ED-STORY-180	System shall support buttons that are styled to match the redesigned Earthdata look and feel
ED-STORY-181	System shall support a pagination component
ED-STORY-186	System shall support a site-wide announcement banner (EUI Component)
ED-STORY-249	System shall provide an approved set of layout/background images for my Earthdata-related site or publication.
ED-STORY-271	Visitors shall be able to dismiss EUI banners
ED-STORY-336	System shall provide a card component option in EUI
ED-STORY-473	System shall provide a badge component

2.3 Earthdata Developer Portal

Documentation for services, applications and sites developed and/or maintained by EED2 development teams is currently spread out all over the place. in the wiki, in specific project repos, hosted alongside individual applications. Much of this documentation is extremely helpful, but there is no good way for someone who doesn't already know where it is or where to look for it to find it.

The Earthdata Developer Portal will provide a central location for this developer-focused documentation, giving the interested developer a single place to find out how to work with the Earth Science data we provide and what resources are available. The portal will be both easily (and consistently) navigable and searchable both in a focused (how do I do "foo" with Common Metadata Repository (CMR)) and general (what service/app can help me do "foo") manner.

2.3.1 System Requirements

The following stories are related to general system requirements.

Story ID	User Story
ED-STORY-341	As a user, I can use dynamic, explorable API documentation for the CMR.
ED-STORY-342	As a user, I can read a detailed user guide on how to use the CMR.
ED-STORY-344	As a user, I can switch to the alternate environment (production, test, etc.) instances of a dynamic, explorable API documentation.

Story ID	User Story
ED-STORY-345	As a user, I can read documentation on specific CMR JSON Schema formats.
ED-STORY-346	As a user, I can read documentation on specific CMR XML schema formats.
ED-STORY-349	As a user, I can access CMR documentation from the "Getting Started" path.
ED-STORY-350	As a user, I should see a summary of the tools, services and APIs available for searching and retrieving Earth science data.
ED-STORY-353	As a user, I can read a how-to explaining how to integrate my application with Earthdata Login.
ED-STORY-354	As a user, I can read a how-to explaining how to integrate my application with the Status app.
ED-STORY-355	As a user, I can read a how-to explaining how to integrate my application with Tophat.
ED-STORY-356	As a user, I can read a how-to explaining how to integrate my application with the Feedback Module.
ED-STORY-359	As a user, I can see example code with syntax highlighting in the Developer Portal.
ED-STORY-360	As a user, I can log into the Developer Portal using the identified authentication solution.
ED-STORY-361	As an unauthenticated or unauthorized user, I see a "restricted access" landing page when I try to access private documentation.
ED-STORY-362	As an unauthenticated user, I can click on a link from the "restricted access" landing page to log in via the identified authentication solution.
ED-STORY-363	As an authenticated user without access to private documentation, I can click on a link to request access.
ED-STORY-364	As an EDP developer/maintainer, I can configure certain pages to be restricted/private.
ED-STORY-365	As a user, I can read an overview of how the Developer Portal works.
ED-STORY-366	As a user, I can read documentation on the supported documentation source types/adapters and what configuration options they support.
ED-STORY-367	As a user, I can see an indication that a menu/navigation item links to restricted content.
ED-STORY-368	As a user of the dev portal, I should be able to view Earthdata Login's documentation
ED-STORY-370	As a user, I can navigate between Earthdata Login documentation pages without leaving the Developer Portal.

Story ID	User Story
ED-STORY-406	As a user, I can search for documentation across the Developer Portal.
ED-STORY-407	As a user, I can search for documentation within a specific app/section of the Developer Portal.
ED-STORY-408	As the Content Search Backend, I can crawl public documentation in the Developer Portal.
ED-STORY-409	As the Content Search Backend, I can crawl private documentation in the Developer Portal.
ED-STORY-410	As an unauthenticated/unauthorized user, I can ONLY see public documentation in Developer Portal search results.
ED-STORY-411	As an authenticated and authorized user, I can see public AND private documentation in Developer Portal search results.
ED-STORY-412	As a user, I can request EDP integration support through the JIRA Service Desk.
ED-STORY-413	As a user, I can see suggested/autocomplete-style recommendations when searching in the Developer Portal.
ED-STORY-414	As a user, I can view CSW documentation
ED-STORY-415	As a user, I can view Opensearch documentation
ED-STORY-416	As a user, I can see an indicator when the content contains a link that will take me away from the *.earthdata.nasa.gov domain
ED-STORY-417	As a user, I can see a Sitemap listing all of the documentation available in the Developer Portal.
ED-STORY-419	As a user, I can read an overview of some of the tools that are available to help application developers integrate with Earthdata.
ED-STORY-420	As a user, I can read an overview of what Earthdata Search is and what capabilities it offers.
ED-STORY-421	As a User, I can to submit feedback via the FBM
ED-STORY-422	As a user, I can submit feedback/comments/questions using the Feedback Module.
ED-STORY-423	As a user, I can see the EDSC developer guide on the ED Dev Portal

2.3.2 Getting Started Pages

Users should be able to access a getting started page. For example, a user that is on the home screen should be presented with a preset "getting started path" that gives an overview and links to individual components of a larger process such as "Search and Get Data" or "Host an application on

Earthdata". The stories below cover everything up to a user landing on a getting started path page.

Story ID	User Story
ED-STORY-316	As a user, I should see content provided by a Conduit CMS project
ED-STORY-321	As a user, I should see a home page with links to common getting started paths
ED-STORY-322	As a user, I should see a page with information on how to get started with an application
ED-STORY-332	As a user, I can see images in pages from Conduit.

2.3.3 Host an Application

This epic covers content creation for the "Host an application on Earthdata" getting started path.

Story ID	User Story
ED-STORY-327	As a user, I can see a summary of the process for hosting an application on Earthdata
ED-STORY-328	As a user, I should see documentation on how to use the ECC
ED-STORY-329	As a user, I should see documentation on how to use Stash
ED-STORY-330	As a user, I can see documentation on how to use Confluence
ED-STORY-331	As a user, I can see documentation on how to use JIRA

2.3.4 Search and Get Data Content

This epic covers content creation for the "Search and get data" getting started path.

Story ID	User Story
ED-STORY-324	As a user, I should be able to see API documentation for the CMR
ED-STORY-325	As a user, I should be able to see examples of how to use the CMR
ED-STORY-326	As a user, I should be able to see a changelog/release notes for the CMR
ED-STORY-333	As a user, I should be able to see documentation for OPeNDAP in the Developer Portal
ED-STORY-334	As a user, I should be able to see examples of how to use OPeNDAP

Story ID	User Story
ED-STORY-335	As a user, I should be able to see release notes for OPeNDAP

2.4 Feedback Module

The Feedback Module (FBM) allows client applications to easily add a ticket servicing system (currently Kayako) backed feedback and support functionality to a web site. It provides JavaScript code that can be referenced in a client web page to add a "Feedback" icon on the side of the page. Clicking this icon opens a feedback form where the user can enter their name, email address, the subject of their feedback and any details. FBM will also collect information about the current browser type, location and page/screen size, if it is available. When feedback is submitted, FBM creates a new service ticket with attributes configured for the client application.

Story ID	User Story
ED-FMSTORY-1	As FBM, I can only be added to a registered domain, so that non-registered domains cannot misrepresent me.
ED-FMSTORY-2	As FBM, I limit the number of requests that a single user can submit from a given page configured to accept FBM requests, so that I prevent denial of service attacks
ED-FMSTORY-3	As a client app, I can test in the FBM SIT environment
ED-FMSTORY-4	As a client app, I can specify additional metadata to include in the ticket when calling showForm.
ED-FMSTORY-5	As a client app, I can provide a pre-populated subject when calling showForm.
ED-FMSTORY-7	As a client app, I can add additional fields/data (such as URL) to a ticket when the form is opened.
ED-FMSTORY-8	As a user with metrics access, I can export a chart as an Excel spreadsheet.
ED-FMSTORY-9	As a user, I can see support@earthdata.nasa.gov as a fallback means of sending feedback when an error occurs, so that I am still able to submit feedback.
ED-FMSTORY-10	As a client app, I can provide pre-populated details when calling showForm.
ED-FMSTORY-12	As a client app, I can specify a custom title for the feedback form, so that I present a more appropriate title to my users
ED-FMSTORY-13	As a client app staff user, I can see referrer page URL in the tickets submitted via FBM on my site, so I can better analyze ticket information
ED-FMSTORY-14	As a user on a mobile, when I click on FBM button, I can see a mailto: link to Earthdata support instead of the FBM dialog, so that I can successfully submit a ticket

Story ID	User Story
ED-FMSTORY-15	As a user, I can submit an attachment (such as a screenshot) with my ticket.
ED-FMSTORY-16	As a client app, I can set a custom footer for the feedback form, so that I can provide additional information to my users like a phone number or link to help pages
ED-FMSTORY-17	As a client app, I can specify values for title, subject, and/or details at initialization.
ED-FMSTORY-18	As FBM, I would like users submitting tickets to click on a CAPTCHA check box, so that I am ensured that a robot is not submitting tickets

2.5 Earthdata Code Collaborative (ECC)

The Earthdata Code Collaborative (ECC) provides a ready-to-use collaborative framework for designing, developing, testing, deploying, and managing projects for Earthdata and other EOSDIS applications. ECC supports the full life cycle of Agile software development including performance tracking metrics.

Core capabilities of ECC are:

- Code repository based on Git
- Bug and issue tracking
- Requirements management
- Deployment management
- Wiki for collaboration, documentation, and sharing
- All ECC components are supported with single sign-on
- Centralized way to manage access permissions to these tools by the owner and administrators of the individual projects

Story ID	User Story
ED-ECCSTORY-1	As an ECC Approver any Collaborator I add to a project is automatically approved.
ED-ECCSTORY-2	As a Project Owner, I can set the visibility of my project to "private".
ED-ECCSTORY-3	As a Project Admin, I am an admin for the corresponding Stash project.
ED-ECCSTORY-4	As a Project Owner, I am a project admin for the corresponding JIRA project.
ED-ECCSTORY-5	As a Project Owner, I can promote a Collaborator to Project Admin.
ED-ECCSTORY-6	As a Project Owner, I am designated the "lead" in corresponding JIRA projects.
ED-ECCSTORY-7	As a Project Owner, I can do anything an Project Admin can do.
ED-ECCSTORY-8	As a Project Admin, I can remove a Collaborator from my project.
ED-ECCSTORY-9	As a Project Admin, I can add any EDL User (even if they are not an ECC User yet) as a Collaborator on my project.
ED-ECCSTORY-10	As a Project Admin, I can do anything a Collaborator can do.
ED-ECCSTORY-11	As a Collaborator, I can leave an ECC project.
ED-ECCSTORY-12	As a Collaborator, I can fully edit wiki pages

Story ID	User Story
ED-ECCSTORY-13	As a Collaborator, I can push commits to my ECC project's Stash repo(s)
ED-ECCSTORY-14	As a Collaborator, I can clone my ECC project's Stash repo(s) via HTTPS.
ED-ECCSTORY-15	As a Collaborator, I can create and fully manage JIRA issues for a project.
ED-ECCSTORY-16	As an ECC User creating a project, I can specify an existing JIRA project to use
ED-ECCSTORY-17	As an ECC User, when I create or import a project, I automatically become the Project Owner.
ED-ECCSTORY-18	As an ECC User, I can create a new project.
ED-ECCSTORY-19	As an ECC User browsing projects, I can see projects which are not marked as "private".
ED-ECCSTORY-20	As an ECC User browsing projects, I can see projects on which I am a Collaborator (or higher).
ED-ECCSTORY-21	As an ECC User I can browse a list of projects.
ED-ECCSTORY-22	As an ECC User on the main page, I see a list of projects I contribute to, and a list of my own projects.
ED-ECCSTORY-23	As a EDL user I can request access to the ECC.
ED-ECCSTORY-24	As a signed-in EDL User without ECC access, I see an indicator that my access is pending approval.
ED-ECCSTORY-25	As a visitor on the ECC home page, I see a EDL sign-in link.
ED-ECCSTORY-26	As an ECC User not on a project, I can not see the corresponding Confluence space
ED-ECCSTORY-27	As an ECC User not on a project, I can not browse the corresponding Stash project
ED-ECCSTORY-28	As an ECC User who has been removed from a project, I can no longer access the corresponding JIRA project
ED-ECCSTORY-29	As an ECC User creating a project, I can specify a Confluence space
ED-ECCSTORY-30	As an ECC User creating a project, I can specify an existing Stash project
ED-ECCSTORY-31	As an ECC Approver, I can approve EDL users for access to the ECC.
ED-ECCSTORY-32	As a registered ECC User I can fork a public project's repo from Stash (not a fork button in ECC).
ED-ECCSTORY-33	As a registered ECC User I can see issues, source code, and wiki pages for all public projects.
ED-ECCSTORY-34	As a Guest I can see the title, description, contact, URL for public projects.

Story ID	User Story
ED-ECCSTORY-35	As a sponsor, I can see a list of users who I have sponsored.
ED-ECCSTORY-36	As a user whose sponsorship/approval has expired, I can no longer access ECC Confluence spaces.
ED-ECCSTORY-37	As a user whose sponsorship/approval has expired, I can no longer access ECC Stash projects/repos.
ED-ECCSTORY-38	As a user whose sponsorship/approval has expired, I can no longer access ECC JIRA projects.
ED-ECCSTORY-39	As a user, I can request re-approval by a different sponsor when my approval has expired.
ED-ECCSTORY-40	As a user, I have to agree to Terms of Use when requesting approval.
ED-ECCSTORY-41	As a user, I receive an email when my approval has expired.
ED-ECCSTORY-42	As a user, I receive an email when my approval is about to expire.
ED-ECCSTORY-43	As a user whose sponsorship/approval has expired, I can no longer access ECC projects.
ED-ECCSTORY-47	As a sponsor, I can approve or decline a user who has requested access.
ED-ECCSTORY-48	As a sponsor, I can see a list of pending approvals that were routed to me.
ED-ECCSTORY-49	As a user, I have to select my sponsor from a list of valid sponsors when requesting ECC access.
ED-ECCSTORY-53	As a sponsor, when I approve or decline a sponsorship request, the associated Kayako ticket should be closed.
ED-ECCSTORY-54	As a user, when I request sponsorship, a Kayako ticket should be created for the request and routed to the sponsor I selected.
ED-ECCSTORY-55	As an approver/sponsor, when declining an approval/sponsorship request, I can provide a reason, which will be used to respond to the associated Kayako ticket.
ED-ECCSTORY-56	As a sponsor, I can see when ECC access of users I have sponsored will expire.
ED-ECCSTORY-57	As a member of EED leadership, I can see all ECC projects (including associated components).
ED-ECCSTORY-58	As an SA/admin, I can see all ECC projects (including associated components).
ED-ECCSTORY-59	As a Project Admin, I can assign a user to a specific role (Admin, Collaborator, Viewer) in Stash.
ED-ECCSTORY-60	As a Project Admin, I can assign a user to a specific role (Admin, Collaborator, Viewer) in Confluence.

Story ID	User Story
ED-ECCSTORY-61	As a Project Admin, I can assign a user to a specific role (Admin, Collaborator, Viewer) in JIRA.
ED-ECCSTORY-62	As a Project Admin of a private project, I can add a user to the Viewers role.
ED-ECCSTORY-63	As a Project Admin, I can see which user roles have been assigned on a specific component rather than project-wide.
ED-ECCSTORY-64	As a Project Admin, I can switch back to project-wide (rather than component-specific) permissions.
ED-ECCSTORY-65	As an ECC admin, I can delete a project.
ED-ECCSTORY-66	As a user, I can see information explaining how ECC project roles correspond to JIRA/Confluence/Stash permissions.
ED-ECCSTORY-67	As a Project Admin, I can link my project to a non-Stash/ECC code repo (e.g. Github, Google Code, ...).
ED-ECCSTORY-69	As a Sponsor, I can see approvals from the last week on the approval page.
ED-ECCSTORY-70	As a Sponsor, I can see all pending approval requests (not just my own).
ED-ECCSTORY-71	As a Sponsor, I should be able to look up a user's approval status by username or email.
ED-ECCSTORY-72	As a Project Admin, I can change my project's name.
ED-ECCSTORY-73	As a user, on the project listing page, I can click a link to request access to any ECC project (including ones that I can't see).
ED-ECCSTORY-74	As a Project Owner/Admin, I can make my project Hidden, rather than just Private.
ED-ECCSTORY-75	As a user, I can see basic project information for private projects.
ED-ECCSTORY-76	As an admin/superuser, I can see the Status page under any project.
ED-ECCSTORY-77	As ECC Project owner, I can request that my project be deleted
ED-ECCSTORY-78	As an ECC Project owner, when I make a delete project request, I can see the ticket under "My Requests" in JIRA Service Desk
ED-ECCSTORY-80	As ECC, I can see usage metrics for me, on the Earthdata Google Analytics account
ED-ECCSTORY-81	As a project owner in the ECC I should be able to view a list of approved ECC users (Earthdata Service Desk)
ED-ECCSTORY-83	As a sponsor, I can revoke the access of an approved ECC user.

Story ID	User Story
ED-STORY-399	As an ECC project administrator, I should see the reason a user is requesting access to my ECC project

2.6 Earthdata StatusApp

The Earthdata Status application provides notification banners for the Earthdata web site (<https://earthdata.nasa.gov>) and other related applications. Notifications are configured at a central location (<https://status.earthdata.nasa.gov>) and made available to client applications through public APIs, JavaScript widgets, and end-user-facing status pages.

The primary use cases addressed by the Status application are:

- **Planned Maintenance.** Owners of client applications can push up a banner with information regarding any upcoming maintenance windows, so that users can be notified of any potential issues with the site.
- **Emergency Notifications.** When an unplanned outage occurs, a client application owner can immediately display a banner on impacted sites and applications regarding the outage, and potentially including links to further support/information.
- **Informational Notifications.** When a new feature is introduced or an event occurs, a client application owner can provide an informational notification to users and potentially include links to further support/information.

2.6.1 System Requirements

Story ID	User Story
ED-STORY-251	As a user, I should see all dates/times in eastern time.
ED-STORY-252	As an Admin, I can add/edit/remove a notification banner.
ED-STORY-253	As an Admin, I can select the notification type/level.
ED-STORY-254	As a user on the Earthdata site, I can see the notification banner.
ED-STORY-256	As a user, I can dismiss/acknowledge a notification banner to avoid seeing it again.
ED-STORY-264	As a Client App Owner, I can set a start date for a notification, so that the notification will only show up at/after that time.
ED-STORY-265	As a Client App Owner, I can set an end date for a notification, so that the notification will stop displaying after that time.

Story ID	User Story
ED-STORY-266	As an Operator, I can create/update/delete a Client Application.
ED-STORY-267	As an Operator, I can add registered domains to a Client Application.
ED-STORY-268	As an Operator, I can designate Owners of a Client Application.
ED-STORY-269	As a Client Application Owner, I can create/update/delete notifications for that Client Application.
ED-STORY-270	As a user, I can request Earthdata Status integration through the JIRA Service Desk.
ED-STORY-298	As a Client Application Owner, I can add a clickable link to a Notification.
ED-STORY-315	As a Client Application Owner, I can make a Notification non-dismissible.
ED-STORY-318	As a user, I can see a calendar of both current and upcoming notifications.
ED-STORY-319	As a user, I can filter the calendar to display (a) specific client application(s).
ED-STORY-320	As an API client, I can optionally fetch all notifications (rather than just current notifications) for a client application.
ED-STORY-358	As an application owner, I can configure a notification to only show up under certain paths.
ED-STORY-386	As an Application Owner, I can see help text explaining what each of the notification fields are/mean.

2.6.2 Trusted Applications

Trusted Applications functionality of the StatusApp enables owners of one client application (upstream client app or From client app) to post notifications on another client application's (downstream client app or To client app) site. As an example, Earthdata Search application enables users to download data from various DAACs. If a DAAC is in maintenance mode and it's data is going to be unavailable for a period of time that would affect users for Earthdata Search, the owner of that DAAC client application may want to post a notification on the Earthdata Search site to notify it's users of this upcoming maintenance.

Owner of a client application (From client app) can request a TrustedApp relationship with another client application (To client app). Once approved owner of the From client app can post notifications to To client app's site.

Story ID	User Story
ED-STORY-372	As an Client-app owner I can add a trusted app relationship with my app
ED-STORY-373	As a client-app owner, I can remove previously approved trusted- app relationship with another client-app
ED-STORY-374	As a client-app owner, I can view my upstream and downstream approved trusted- app relationships with other client- apps
ED-STORY-375	As a Status App operator, I can see a list of all upstream and downstream trusted- app relationships
ED-STORY-376	As a Status App operator, I can create trusted app relationships.
ED-STORY-377	As a Status App operator, I can delete trusted app relationships.
ED-STORY-378	As a client-app owner, I can create a notification to only show up on my site
ED-STORY-379	As a client-app owner, I can post a notification to a trusted- app site
ED-STORY-380	As a client-app owner, I can post a notification to multiple trusted- app sites
ED-STORY-381	As a client-app owner I can see all notifications from my upstream trusted- apps.
ED-STORY-382	As a client-app owner, I can have notifications from trusted- apps approved by default
ED-STORY-383	As a client-app owner, I can disapprove previously approved notifications from trusted- apps.
ED-STORY-384	As a client-app owner, I can re-approve previously disapproved notifications from trusted- apps.
ED-STORY-392	As an operator of Status App, I can add/remove other operators

2.6.3 Glossary

Table 1 contains a glossary of terms with specific defined meanings in the context of the Earthdata Status application.

Table 1. Earthdata Status Glossary of Terms

Term	Definition
Client Application (client app)	A web site or application registered with the Earthdata Status application in order to make use of its notification capabilities.
Notification	A single text message to be delivered to a specific Client Application via a in-browser banner or other such mechanism.
Operator	An administrator of the Earthdata Status application itself (not of a particular Client Application). Operators will be able to set up Client Applications and configure Client Application Owners. Some requirements refer to an Operator as an Admin of the Status App.
Owner	A user designated as the/an owner of a specific Client Application. These users do not have admin rights over the Status application itself, but can configure notifications for the Client Applications that they've specifically been granted oversight of.
Trusted App Relationship	Relationship between two Client Applications wherein an owner of the upstream client application can post notifications to the downstream client application.
Trusted Apps	Client Applications involved in Trusted App relationships.
Upstream Client Application	A Client Application who's owner can post notifications to another Client Application with which it has a trusted relationship to post notifications.
Downstream Client Application	A Client Application that can receive notifications from another Client Application with which it has a trusted relationship to receive notifications.

2.7 Tophat2

Tophat2 is a JavaScript library that adds the NASA Earthdata DAAC navigation, and optionally adds Status App notifications, and the Feedback Module to webpages.

Story ID	User Story
ED-STORY-402	As as application that uses Tophat2, I want Tophat2 to have menus for "Find a DAAC" and "Help" as the only mandatory items, so as to have a simplified Tophat interface

Story ID	User Story
ED-STORY-403	As a website owner, I can optionally configure Tophat2 on my site with StatusApp notifications, so that users of my site can see status notifications on my site using standard Tophat2 style (bell notifications)
ED-STORY-404	As a website owner, I can optionally configure Tophat2 on my site with Feedback Module, so as to provide a consistent interface for feedback
ED-STORY-405	As Tophat2, I should have a responsive interface, so as to support many screen sizes

2.8 Conduit CMS

Conduit CMS is the custom content management system, used by authors, editors and managers to create content for the Earthdata website.

2.8.1 System Requirements

The following stories are related to general system requirements.

Story ID	User Story
ED-STORY-114	As an Author, I can delete a draft page.
ED-STORY-128	As an Editor, I can return a page to the author with remarks/comments.
ED-STORY-130	As an Author, I can upload a new version of an image.
ED-STORY-131	As an author, I can create a page of type Article.
ED-STORY-132	As an author, I can create a page of type News Item.
ED-STORY-133	As an author, I can provide a summary for an article.
ED-STORY-134	As an author, I can tag an article with the science discipline(s) to which it relates.
ED-STORY-135	As an author, I can tag an article with related DAACs.
ED-STORY-136	As an author, I can provide a cover image for an article.
ED-STORY-137	As an author, I can configure the placement of an image in the body of an article.
ED-STORY-138	As a Viewer, when I click to preview a page, I see the staging version of the deployed Earthdata website.
ED-STORY-140	As an Author, I can associate data sets with an article.
ED-STORY-141	As an Author, when I upload an image I can indicate the scale/resolution of the image (1x or 2x/Retina).
ED-STORY-182	As ConduitCMS, I scan files for viruses before saving.
ED-STORY-184	As a viewer, while viewing staging/preview version of the Earthdata site, I should see a banner or other indication that this is not the live site.
ED-STORY-185	As a Viewer, I can see the dashboard and all content, but not edit anything.

Story ID	User Story
ED-STORY-189	As an Editor, I can see the Author's comments on a submitted page.
ED-STORY-190	As a Author, I can move a page under another page.
ED-STORY-191	As an Author, I can create a page as a child of an existing page.
ED-STORY-192	As a Manager, I can remove a user from the project.
ED-STORY-199	As a Manager, I can define redirects for pages that have been moved, but are still linked to by other sites.
ED-STORY-200	As an Author, I can set up the breadcrumbs path to a page using a multi-stage control.
ED-STORY-201	As a Content Author, I can change the slug of a page that hasn't been published yet.
ED-STORY-203	As a content Author, I can add arbitrary tags to a page.
ED-STORY-207	As a content author, I can upload files to use on any page.
ED-STORY-209	As a user, I see an indication that a link is external to a system outside of Earthdata domain.
ED-STORY-211	As a user, I can see News Items from ConduitCMS on the Earthdata site.
ED-STORY-213	As a Content Author, I can add a caption to be used for an image in a specific place.
ED-STORY-214	As a ConduitCMS user, I can login via EDL to view the staging/preview site.
ED-STORY-215	As a user, I should be able to logout of ConduitCMS.
ED-STORY-216	As a content author, I can add a link to content on the page I am authoring
ED-STORY-220	As a ConduitCMS user, I can add tags/keywords to files that I upload.
ED-STORY-221	As an anonymous user, I can visit a status check page to ensure ConduitCMS is available.
ED-STORY-225	As a Content Author, I can insert EUI badges in WYSIWYG content.
ED-STORY-226	As a Content Author, I can add EUI banners in WYSIWYG content.
ED-STORY-229	As a Content Author, I can add a hyperlink to an image.
ED-STORY-237	As a Content Author, I can enter the name of the author of a page.
ED-STORY-241	As a content author, I can tag content by selecting from official GCMD keywords
ED-STORY-248	As a Manager, I can select a background image for a page and all of its children.
ED-STORY-272	As a Content Author, I can add a table using the WYSIWYG editor.

Story ID	User Story
ED-STORY-297	As a Content Author, I can add EUI icons in WYSIWYG content.
ED-STORY-300	As ConduitCMS, I provide my Google Analytics metrics.
ED-STORY-314	As a Manager, I see a warning that a redirect might be necessary when deleting or unpublishing a page.
ED-STORY-317	As a Content Author, I can include a link in the caption for an Image.
ED-STORY-352	As a content Author, I can specify whether a masthead image link opens a new tab.
ED-STORY-357	As an image uploaded to or linked in ConduitCMS content, I will have alt text.
ED-STORY-450	As a ConduitCMS admin, I can create a new ConduitCMS project.
ED-STORY-451	As a user, I can search for pages by title and/or text content.
ED-STORY-463	As an author, when creating a draft from the Dashboard, I should be able to select the type of page.
ED-STORY-464	As an Author, I can add subscript and superscript text in WYSIWYG content.
ED-STORY-466	As a content creator, I can specify an Article page to appear in the news feed of the Earthdata website.

2.8.2 Workflow Enhancements

Conduit CMS system enables Authors, Editors and Managers to create, edit and ultimately publish pages on the Earthdata website. The following stories are related to the workflow to manage the creating, editing and publishing of these pages.

Story ID	User Story
ED-STORY-274	As an Author, I can submit a new page.
ED-STORY-275	As an Author, I can make draft edits to an existing/published page.
ED-STORY-276	As an Author, I can submit changes to an existing/published page.
ED-STORY-277	As an Editor, I can make changes to a submitted draft.
ED-STORY-278	As a Manager, I can publish or re-publish a page.
ED-STORY-279	As a Manager, I can unpublish a published page.

Story ID	User Story
ED-STORY-281	As a Content Author, I see an indicator that another user is editing the same page.
ED-STORY-282	As a Viewer, I can tell the difference between unpublished pages and recalled pages.
ED-STORY-283	As a Viewer, I can see in the Version History that a page is unpublished.
ED-STORY-284	As an Editor, I can approve a submitted draft.
ED-STORY-312	As a user, I can "cancel" or "discard" any draft changes made to a page since it was last published.
ED-STORY-313	As a Viewer, I can view the published version of a page that has unpublished/draft changes.
ED-STORY-452	As a Viewer, I can see the revision/workflow history of a page.

2.8.3 Content Approval

The following stories are related to content approval workflow.

Story ID	User Story
ED-STORY-115	As an Author, I can see a list of recently returned/rejected pages and content on my dashboard.
ED-STORY-117	As an Author, I can see an editor's comments on a page that was returned.
ED-STORY-119	As a Manager, my home page shows me a list of approved pages pending publication.
ED-STORY-120	As an Editor, my home page shows me a list of pages needing approval.
ED-STORY-121	As an Author, my home page shows me a list of work in progress/drafts.
ED-STORY-122	As a Manager, I can publish an approved page.
ED-STORY-125	As an Editor, I can approve a submitted page.
ED-STORY-127	As an Author, I can submit a page for review and approval.

2.8.4 Mastheads

The following stories are related to creating/editing of Masthead pages used on the Earthdata homepage.

Story ID	User Story
ED-STORY-232	As a Content Author, I can create a new Home Page Masthead image.
ED-STORY-233	As a Content Author, I can add POI entries to a Home Page Masthead.
ED-STORY-234	As a Content Author, I can add flyout information to the Home Page Masthead.
ED-STORY-235	As a Content Author, I can configure the cropping of the Home Page Masthead image.
ED-STORY-236	As a Content Author, I can dynamically position POI entries on the Home Page Masthead image to get a better idea what it will look like on the live site.
ED-STORY-242	As a Content Author, I can preview a Home Page Masthead in the staging environment.
ED-STORY-243	As an Author, I can enter a date or date range for the Home Page Masthead flyout.
ED-STORY-244	As an Author, I can select the alignment of a Home Page Masthead image.
ED-STORY-273	As a Content Author, I can see what portion of a Homepage Masthead image is likely to be visible on several representative screen sizes.
ED-STORY-299	As a Content Author, I can enter superscript and subscript text in Masthead POI text.
ED-STORY-465	As Masthead content author, I can change the color of the "Bing" dot to correspond with the featured image.

2.8.5 Sidebar Customization

The following stories related to customizability for the sidebar on Conduit CMS-backed pages.

Story ID	User Story
ED-STORY-245	As an Author, I can create a "Link List" gadget with a set of curated links to ED and external pages.
ED-STORY-246	As an Author, I can add a "Link List" gadget to the sidebar of an Article, Basic Page, or News Item.
ED-STORY-247	As an Author, I can hide the sidebar on a specific Basic Page.

2.8.6 Media Management

The following stories are related to managing images and other media as an Author.

Story ID	User Story
ED-STORY-425	As a Content Author, I can upload an image with a title, caption, description, and alt text.
ED-STORY-426	As a Content Author, I can include an uploaded image in a page I am editing.
ED-STORY-427	As a Content Author, I can view a list of all uploaded images.
ED-STORY-428	As a Content Author, I can update the title, caption, description and alt text of an image.
ED-STORY-429	As a Content Author, I can include an image by URL in a page I am editing.
ED-STORY-430	As a Content Author, I can select an image to upload by dragging and dropping into the media library.
ED-STORY-431	As a User, I see a warning message when I attempt to delete an image that it is being used as a background image.

2.8.7 Friendly URLs

A friendly Uniform Resource Locator (URL) is a Web address that is easy to read and includes words that describe the content of the webpage. This type of URL can be "friendly" in two ways. 1) It can help visitors remember the Web address, and 2) it can help describe the page to search engines. The following stories are related to providing friendly URLs for images and files uploaded into Conduit CMS and made available on the Earthdata website.

Story ID	User Story
ED-STORY-432	As a Content Author, I can see a user-friendly URL like "/files/some_file.pdf" to use when sharing a file uploaded to Conduit.
ED-STORY-433	As a Content Author, I can set/edit the filename for an attachment uploaded to Conduit.
ED-STORY-434	As a Content Author, I can see a user-friendly URL like "/media/some_image.jpg" to use when sharing an image uploaded to Conduit.
ED-STORY-435	As a Content Author, I can set/edit the filename for an image uploaded to Conduit.

2.8.8 Expired Content

The following stories are related to marking pages that are old and/or need to be updated.

Story ID	User Story
ED-STORY-310	As a user, I can see a list of pages that an image is being used on.
ED-STORY-311	As a Manager, when deleting an Image that is in use on a page, I see a warning that the Image is still in use.
ED-STORY-337	As a Manager, I can mark a page as requiring updates.
ED-STORY-338	As a page, when an image that is part of my content is deleted, I am marked as requiring an update.
ED-STORY-339	As a Manager, I can acknowledge/dismiss the "Requires Update" flag on a page.

2.8.9 Events

Events are a page type in Conduit CMS that represents an event. Examples of events are an upcoming Webinar or conference. Events have need structured content that is different from other pages, for example. an event can occur at a location and at a specific time. The following stories are related to creating/updating an Event page.

Story ID	User Story
ED-STORY-258	As a Content Author, I can create an Event.
ED-STORY-259	As a Content Author, I can add a Cover Image to an Event.
ED-STORY-263	As a Content Author, I can select the Event Type for an Event.
ED-STORY-293	As a Content Author, I can add a location to an Event.
ED-STORY-307	As a Content Author, I can use WYSIWYG formatting tools for the Event Body.
ED-STORY-308	As a Content Author, I can add a Summary to an Event.
ED-STORY-309	As a Content Author, I can add multiple date/time spans to an Event.

2.8.10 Image Search

Conduit CMS provides an ability to add images to Conduit CMS pages. The following stories are related to searching for images while and Author is trying to add an image to a page.

Story ID	User Story
ED-STORY-304	As a Viewer, I can filter images in the Media Gallery by title.
ED-STORY-305	As an Author, I can filter images by title when selecting a header, masthead or cover image.

Story ID	User Story
ED-STORY-306	As an Author, I can filter images by title when adding a CMS/uploaded image to WYSIWYG content.

2.8.11 Rich Site Summary Feeds

Rich Site Summary (RSS) Feed gadgets provide the ability to display RSS Feeds on a website. RSS gadgets are defined in terms of the URL from where RSS content can be retrieved. The following stories are related to adding RSS Feeds to pages.

Story ID	User Story
ED-STORY-289	As a Content Author, I can create an RSS Feed gadget to display content from a selected RSS feed.
ED-STORY-290	As a Content Author, I can include an RSS Feed gadget in WYSIWYG content.

2.8.12 Feature Pages

Feature pages are a type of page in Conduit CMS with a specific layout and structured content. The following stories are related to creating and updating Feature pages.

Story ID	User Story
ED-STORY-202	As a Content Author, I can create a Feature page.
ED-STORY-285	As a Content Author, I can see what portion of a Feature Page header image is likely to be visible on several representative screen sizes.

2.8.13 Featured Articles

The homepage for the Earthdata website has a dynamic grid section that is used to highlight relevant Conduit CMS pages that may be of interest to its users. Conduit CMS pages need to be marked as "Featured" in order to be a candidate to show up in this dynamic grid section. The following stories are related to marking/unmarking pages as "Featured".

Story ID	User Story
ED-STORY-238	As a user, when I publish an Article, I can choose whether it should be featured on the home page.
ED-STORY-239	As a Manager, I can choose to feature a (published) Article on the Home Page.
ED-STORY-257	As a Manager, I can choose to unfeature a published and featured Article.

2.8.14 Publish, Preview and Stage

The view of pages in Conduit CMS is geared toward content creation and not toward content display. Authors and Editors would like to see how the content they create looks on the Earthdata website. The following stories are related to previewing the pages in a staging area of the Earthdata website before they are published.

Story ID	User Story
ED-STORY-113	As an Author, I can revert a page to its last published state, canceling all current modifications.
ED-STORY-124	As a user, I can view and edit a page in the same layout/context/template as it will be displayed on the deployed site.
ED-STORY-126	As a Viewer, I can view the latest committed version of a page in the staging environment.

2.8.15 Conduit Customization

Conduit CMS was originally designed specifically to create/edit content for the Earthdata website. Some features on the Earthdata website are hardcoded and not configurable in Conduit CMS, for example the layout and some content on the Earthdata homepage. The following stories are related to making Conduit CMS more customizable so that it can be used as a content management system for other websites as well. Please note that these stories are only partially implemented.

Story ID	User Story
ED-STORY-255	As an Author, I can populate a Related Content gadget using selected tags and other metadata.
ED-STORY-436	As a Manager of a site/project in Conduit, I can control the links provided in the primary navigation menu.
ED-STORY-437	As a Manager, I can pick icons and links (text and HREF) to display in the "blur bar" under the home page masthead.
ED-STORY-438	As a Manager, I can change the text and heading that's displayed in the "About EOSDIS" section of the home page.
ED-STORY-439	As a Manager, I can add additional news sources to display on the home page.
ED-STORY-440	As a Manager, I can customize the text, heading and links used in the "Collaborate With Us" section of the home page.
ED-STORY-441	As a Manager, I can set Twitter, Facebook, Google+ and/or Youtube accounts for my project.

Story ID	User Story
ED-STORY-442	As a Manager, I can add, remove and update links in the footer for my site/project.
ED-STORY-443	As a Manager, I can set a FBM account/client application to use instead of the "Earthdata" account.
ED-STORY-444	As an Author, I can create a Twitter feed Gadget that shows recent posts from a specified Twitter account.
ED-STORY-445	As a Manager, I can apply a Gadget to a page and all of its children.
ED-STORY-446	As a Manager, I can configure (a) default Gadget(s) to be shown on all pages.
ED-STORY-447	As an Author, I can add a "Data" Gadget to a page to display related metadata, like related Science Disciplines and DAACs.
ED-STORY-448	As a Manager, I can set the timezone to be used in my site/project.

2.9 Conduit Web

Conduit web application retrieves content from Conduit CMS and renders it. This section contains stories related to functionality supported by this rendering engine.

Story ID	User Story
ED-STORY-8	As Earthdata website, I provide metrics from Google Analytics.
ED-STORY-10	As a user, I see links to "Related Content" throughout Earthdata pages
ED-STORY-12	As a user, I can read and browse images and information about Sensing Our Planet articles
ED-STORY-13	As a user, I can click a link to connect with social media.
ED-STORY-14	As a user, I can see links to Earthdata social media sites on all pages
ED-STORY-15	As a user, I can search for content on the Earthdata site
ED-STORY-19	As a user, I can see additional navigation in the footer of the Earthdata site
ED-STORY-21	As a user, when I view the site on HiDPI monitors and devices, I can see high resolution images.
ED-STORY-143	As a user, I can see search results for datasets/collections in CMR.
ED-STORY-144	As a user, I can see search results for Earthdata site content.

Story ID	User Story
ED-STORY-162	As a user, I see links to Earthdata social media sites in the footer
ED-STORY-197	As a user, I see a list of the most recently published articles on certain feature pages.
ED-STORY-198	As a user, I can see recent Twitter updates for the @NASAEarthdata account on certain feature pages.
ED-STORY-208	As a content author, I should see documentation for the Earthdata site
ED-STORY-286	As a user of the Earthdata site, I can tell from the event/webinar page that it occurred in the past.
ED-STORY-457	As ED website user, I can page through, sort and search content on the Library/Attachments page at https://earthdata.nasa.gov/library .
ED-STORY-458	As a user, I can see previous mastheads that have been featured on Earthdata
ED-STORY-459	As a user, I can see date information alongside the summary for an Event in the feature grid on the home page.
ED-STORY-461	As ED site, I provide sitemap.xml to search engines

2.9.1 Rendering the Article page type

The following stories are related to rendering Conduit CMS pages of type Article.

Story ID	User Story
ED-STORY-142	As a user on a retina/high resolution screen, I should see high resolution images in article content that has been marked as high resolution by Conduit CMS Authors.
ED-STORY-145	As a user on a retina/high resolution screen, I can see high resolution images for featured articles on the home page.
ED-STORY-148	As a user, I see Conduit CMS pages of type Article including images in those pages.
ED-STORY-150	As a user, I see the article title.
ED-STORY-151	As a user, I see a header/background image related to the article's science discipline if available or a fallback image.
ED-STORY-153	As a user, I see a list of DAACs related to the article.
ED-STORY-154	As a user, I see a list of Science Disciplines related to the article.
ED-STORY-155	As a user, I see a link to the dataset(s) that the article relates to if applicable.

Story ID	User Story
ED-STORY-156	As a user, I can click on the breadcrumbs to go to a higher-level page (e.g. the home page, DAAC or Science Discipline landing page).
ED-STORY-157	As a user, I can see breadcrumbs for the page I am currently viewing.

2.9.2 Rendering the Homepage

The following stories are related to rendering content on the Earthdata homepage.

Story ID	User Story
ED-STORY-16	As a user I can see news from DAACs in the News & Events section.
ED-STORY-159	As a user, I can click on one of the DAAC names to filter the News & Events listing.
ED-STORY-160	As a user, I see header images for featured Articles as a grid, with Title, Summary and Event dates where applicable.
ED-STORY-161	As a user, I can click on one of the science disciplines in the blur bar to go to the relevant science discipline landing page.
ED-STORY-287	As a user, I can see recent/upcoming events and webinars in the News & Events section of the home page.
ED-STORY-455	As a user, I can see news items from both the Conduit CMS and an external RSS feed for a single source in the News & Events section.
ED-STORY-460	As a user, I see a dynamic three item carousel.

2.9.3 Archive

Content curators for the Earthdata website want a archive of all content published from Conduit CMS on the Earthdata website that can be ordered and searchable. The following stories are related to functionality of the archive of Conduit CMS pages.

Story ID	User Story
ED-STORY-470	As a user, I can see a page that has an archive of content published on Earthdata website.
ED-STORY-471	As a user, I can sort the listing on the Archive page by date, author or title.
ED-STORY-472	As a user, I can filter pages on the Archive page by author or keyword.

Appendix A Abbreviations and Acronyms

API	Application Programming Interface
CAPTCHA	Completely Automated Public Turing test to Tell Computers and Humans Apart
CCB	Configuration Change Board
CCR	Configuration Change Request
CMO	Configuration Management Office
CMR	Common Metadata Repository
CMS	Content Management System
CSW	Catalog Service for the Web
DAAC	Distributed Active Archive Center
ECC	Earthdata Code Collaborative
ED	Earthdata
EDL	Earthdata Login, new name for URS (User Registration System)
EDP	Earthdata Developer Portal
EDSC	Earthdata Search
EED	EOSDIS Evolution and Development
EED2	EOSDIS Evolution and Development 2
EOSDIS	Earth Observing System Data and Information System
ESDIS	Earth Science Data and Information System
EUI	Earthdata User Interface
FBM	Feedback Module
GCMD	Global Change Master Directory
GSFC	Goddard Space Flight Center
HiDPI	High Dots Per Inch
HREF	Hypertext Reference
HTTPS	Hypertext Transfer Protocol Secure
ID	Identifier
JSON	JavaScript Object Notation
NASA	National Aeronautics and Space Administration
NPR	NASA Procedural Requirement
OPeNDAP	Open-source Project for a Network Data Access Protocol
PDF	Portable Document Format
POI	Point of Interest
RSS	Rich Site Summary
SIT	System Integration Test
URL	Uniform Resource Locator
URS	User Registration Service - renamed EDL (Earthdata Login)
WYSIWYG	What You See Is What You Get
XML	eXtensible Markup Language