



CERES Production Request Database Unrestricted General Query Application Demonstration

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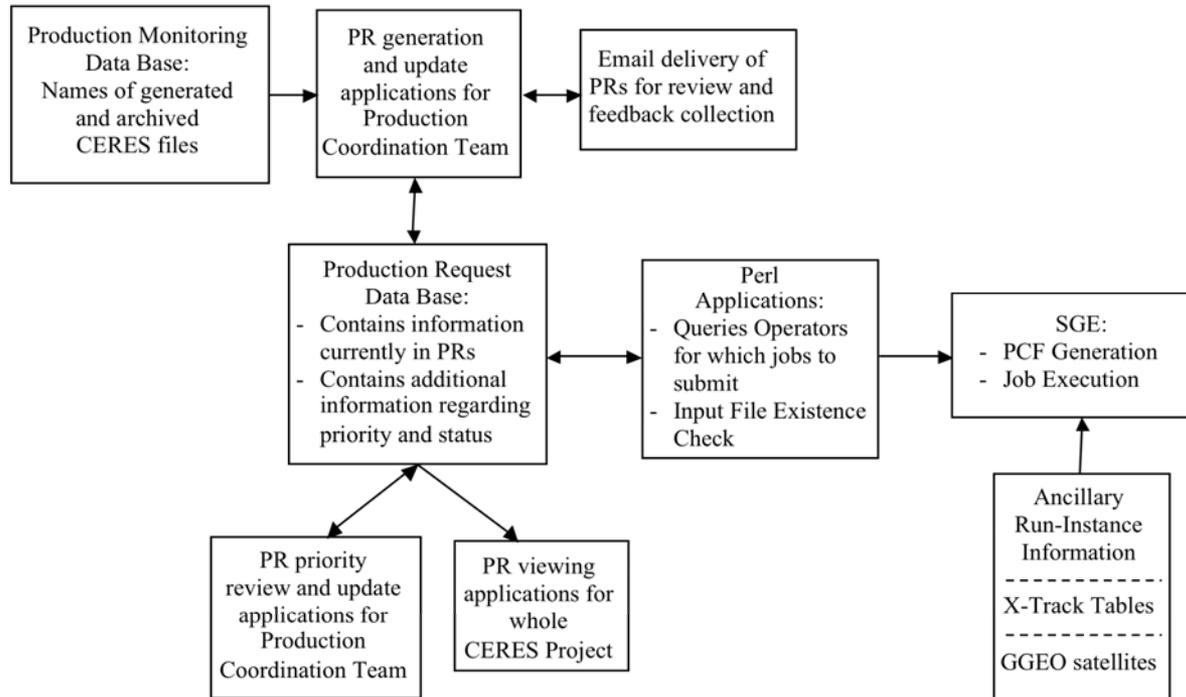


Agenda

- Summary of project plan and where we are
- Demonstration of the unrestricted, general query application developed to date
- Will also display the page developed to date for PR review and editing, though it is not “working” yet



PR Database and Interfaces





Database-Web Interface Functions

- Unrestricted, general query capability accessible to all within Langley Firewall
- Restricted access with editing capability to:
 - Set PR priority
 - Identify PRs for job submittal and assign beginning and ending process dates
 - Generate and approve/reject new PRs



Access: Unrestricted vs. Restricted

- Access to the database is limited to within the Langley firewall
- Unrestricted access will require no login and will be open to anyone within the firewall. No editing capability is available with the unrestricted access, however.
- Restricted access will require the user to login. Appropriate users will have the permission to modify PR information for which they are responsible.



Current Plan - Three Builds

- Build 1 will include the most basic applications that will allow users to query, generate, review, and modify PRs, as well as generate cataloging information required for the submittal of single CERES PGEs for processing on AMI.
- Build 2 will include the addition of dependent PGE generation, editing, and selection capabilities.
- Build 3 will include the capability to interface with an additional database of existing CERES filenames to obtain filenames for available input products and identify data dates within a PR that are yet to be processed.
- Additional functionality may be added to these builds as needed, based upon feedback and user requirements.



Development Teams

Team	Members	Function
Web page design	Lisa Coleman, Renee Key, Elizabeth Heckert, Carla Grune	Prepare mock-ups of Web pages, collect feedback, build Web pages
Web-Database interface	Renee Key, Elizabeth Heckert	Develop interface between web pages and database
Database development	Carla Grune, Maria Wilson (Advisory), Jennifer Perez (Advisory)	Develop PR database
Scripting	Brian Magill (Lead), Renee Key, Tonya Davenport, Angel Cross, Thomas Grepiotis, Nelson Hillyer	Develop Web-Database-Run script interface
Testing/QA	Ron Parrish (Lead), Selected subsystem leads (to vary with each application)	Test applications to ensure functionality and adherence to requirements



Build 1 Development Strategy

- Build 1 of the PR Database will be considered operational once the initial development of all of the basic functions is complete
- The general, unrestricted query was selected for development first as it is expected to produce the most re-usable software
- Plan to work closely with users of restricted functions during development



Build 1 Output Products

Order	Build 1 Application	Build 1 Output Products
1	General, Unrestricted Query	<ol style="list-style-type: none"> 1. Query menus and logic 2. Non-editable list-type display of standard information for multiple PRs 3. Full, non-editable display of all information for a single PR
1	Web-Database-PGE execution scripts	<ol style="list-style-type: none"> 1. Prototype of optimized scripts to submit PGEs for production processing for PRs selected by Operators
2	Setting PR Priorities	<ol style="list-style-type: none"> 1. First restricted user log in interface 2. Application-specific editable display of PRs meeting user-selected search criteria 3. Capability to modify PR priorities on an individual PR basis
3	Restricted Query for PRs Available for Processing	<ol style="list-style-type: none"> 1. Queries based upon status, PR priority and availability of data. 2. Restricted capability to edit beginning and ending processing dates.
4	Generating new PRs	<ol style="list-style-type: none"> 1. Generic editable display for collecting PR information required by all PGEs 2. PGE-specific editable displays for collecting PR information specific to the associated PGEs
5	Reviewing new PRs	<ol style="list-style-type: none"> 1. Approval/disapproval functionality with appropriate notifications



Rough Schedule

- General, unrestricted query - 1/31/11
- Interface for logging into PR Database for restricted access functions - 2/22/11
- Web/Database/Run script interface definition – 2/18/11
- Changing PR priority/status – 3/10/11
- Identifying PRs for job submittal and processing date entry – 4/15/11
- PR generation and review – 5/31/11
- Load Database with real and current PRs, promote to production status – 7/15/11
- Build 2 – late 2011
- Build 3 – mid 2012



Documentation to be Posted

- Requirements Document: Reviewed
- Database Design Scheme: Reviewed
- Operational Concept Document: On-going, steps updated as development progresses, in the end will most likely be an Operational Manual
- Test Plan and Procedures: In development
- Project Schedule: Partially reviewed
- Project Plan: Partially reviewed



Hands-on Demo and Feedback Collection

- Go to: http://science-dev.larc.nasa.gov/ceres_pr_app_dev/dev_eh/svn_checkout/CERES_PR_APP/
- Limited number of PRs included at this time (Tip: Select ERBE-like), and some of the contents have been modified from the original in order to add more variety
- Feedback form included in demo site, with responses emailed to:
ceres-production-request-database-team@lists.nasa.gov



Feedback Collection Plan

- Current plan is to collect feedback through January 28, 2011
- Plan to leave site as is through the collection feedback period, but will send email notification if for some reason a change is made



Feedback Form Questions

- Name
- Email Address
- Did you encounter any errors/problems? If so, please describe the exact steps to reproduce them
- What did you like about the Web site? What features do you think will be most useful?
- Are there any enhancements which you would like to see?



Demo Feedback Recipient List

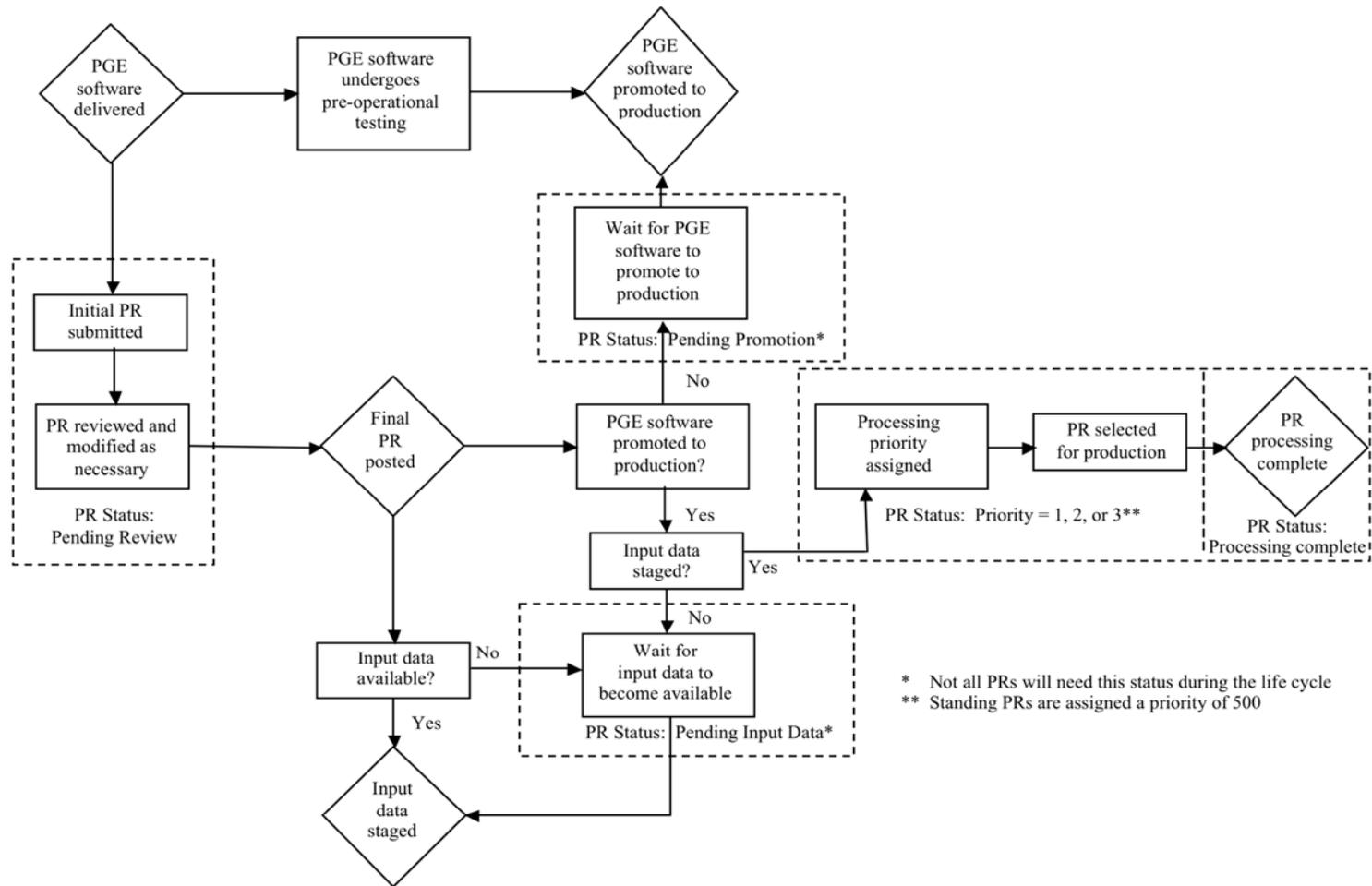
- Lisa Coleman
- Jonathan Gleason
- Carla Grune
- Elizabeth Heckert
- Renee Key
- Brian Magill
- Ron Parrish
- Jennifer Perez
- Maria Wilson



Additional Slides --Not
Presented at Demo



Life Cycle of a CERES PR (draft)



* Not all PRs will need this status during the life cycle
 ** Standing PRs are assigned a priority of 500

Life Cycle of CERES Production Request (PR)



Process for the Web-Database Interface Applications

Typical steps for developing each application (with average estimated time—some steps may overlap)

- Web Page Mock ups – work with the users of the pages (2 weeks)
- Verify that necessary fields are in the database design
- Build the pages (1 week)
- Build email distribution, if applicable (1 week)
- Build the interface between the pages and the database (1 week)
- Test and implement feedback and/or corrections (2 weeks)