

GUI Workshop II

Production Processing

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Overview

Summary and Context

- **Summary:**

This script is provided to highlight the GUIs, and other utilities, used by the Production Monitor during typical production processing. There is no set sequence of activities through which operations personnel work.

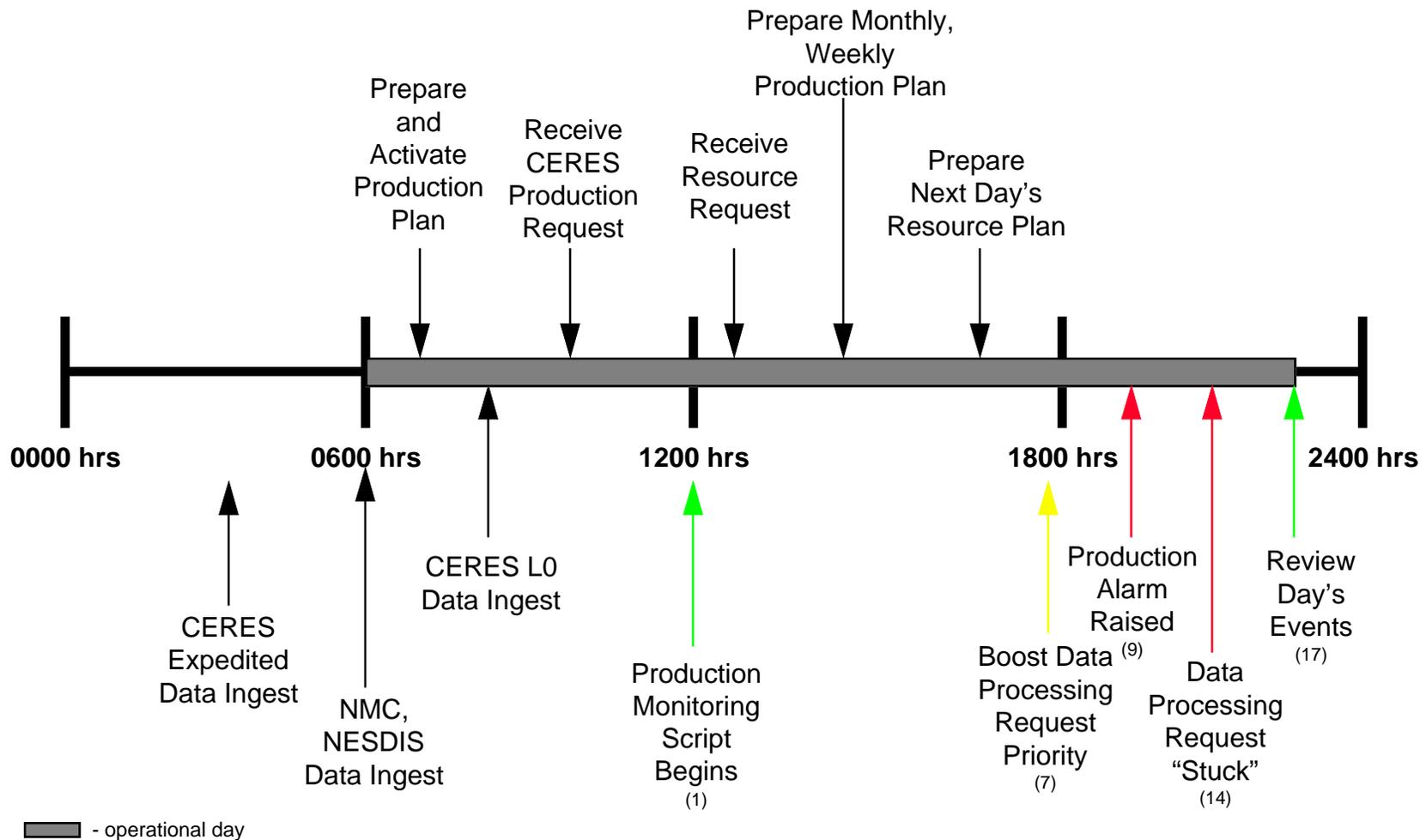
- **Context:**

The view point here is not of a sequence of activities performed to accomplish a task but rather of an established, ongoing activity in which the operator is involved in monitoring. He/she moves from one view (GUI) to another to obtain different views of the system as part of the task of monitoring production.

Activities and GUIs involved in monitoring Data Processing Request anomalies are presented.

Scenario Timeline

Representative LaRC DAAC Events



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Script:

This script highlights the GUIs used to support/monitor Normal Production Processing at the LaRC DAAC during the Release A time period. The GUIs used during both normal and anomalous processing conditions are identified.

Preconditions:

1. All necessary technical and management personnel have been involved in preparing the current production plan.
2. The production plan has been activated and processing is ready to begin.

Note: The following script differs from the other scripts in that a clear cut sequence of activities needed to accomplish a task (i.e., a script) is not provided. Rather, production processing during routine operations is viewed as the monitoring of data processing requests (DPRs) which are being run automatically. The sequence of activities identified below is provided to indicate how an operator might use the different GUIs and utilities provided by AutoSys / AutoXpert (AS/AX) to monitor production processing.

Step No.	Time	Player	Activity	GUI
1	1200	Production Monitor (PM)	The PM prepares to monitor data processing requests (DPRs) planned earlier in the day	AutoSys menu

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Step No.	Time	Player	Activity	GUI
2	1207	Production Monitor (PM)	The PM selects screens which are preferred for the task of monitoring. Currently, DPRs are being queued and one of the production platforms is not operational.	AutoSys Console AutoXpert Jobscape AutoXpert Hostscape
3	1213	Production Monitor (PM)	The PM activates other features to aid in the monitoring effort	AutoSys Monitor
4	1233	Production Monitor (PM)	The PM observes that requests have begun activating following the availability of science data	AutoXpert Jobscape
5	1252	Production Monitor (PM)	The PM is in the early hours of the production operations period at the LaRC DAAC and activates another view to assess production completion times and the duration of several requests which are currently running.	AutoXpert Timescape
6	1832	Production Monitor (PM)	The PM observes that a request has completed earlier than expected and that another request has started immediately following it.	AutoXpert Jobscape AutoXpert Timescape

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Step No.	Time	Player	Activity	GUI
7	1907	Production Monitor (PM)	The PM needs to adjust the priorities of one or more DPRs in response to a request to do so from the DAAC Manager.	AutoXpert Jobscape AutoSys Job Console AutoSys Job Definition AutoSys Adv Job Def.
8	1909	Production Monitor (PM)	The PM notes that the priority change was timely and effective.	AutoXpert Jobscape
9	2017	Production Monitor (PM)	The PM is alerted to the fact that a DPR has issued an alarm.	AutoXpert Jobscape “audible” AutoSys Log
10	2018	Production Monitor (PM)	The PM investigates the alarm in more detail and determines that a science error has triggered the alarm. A typed response records the PM’s interpretation of the event.	AutoSys Job Console AutoSys Adv Job Def Job Dependency (utility) Alarm Manager
11	2110	Production Monitor (PM)	The PM is aware that such a condition can automatically disable selective downstream processing as a side-effect	AutoXpert Jobscape
12	2112	Production Monitor (PM)	Following consultation with the DAAC Manager / SCF, the PM forces some of the disabled production requests to start anyway.	AutoSys Job Console

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Step No.	Time	Player	Activity	GUI
13	2114	Production Monitor (PM)	The PM witnesses the activation of those DPRs and resumes monitoring.	AutoXpert Jobscape
14	2202	Production Monitor (PM)	The PM is alerted to the fact that something is wrong with another DPR .	AutoXpert Jobscape “audible”
15	2204	Production Monitor (PM)	The PM investigates the event in more detail and determines that a DPR is “stuck” in the queue because one of the science production platforms stopped responding to AutoSys.	AutoSys Log AutoXpert Hostscape
16	2214	Production Monitor (PM)	The PM understands that the DPR task may be restarted with the realization that it will most likely be targeted for a different platform, to the degree that this is possible; resource and/or PGE constraints may restrict this feature.	AutoSys Job Console AutoXpert Hostscape
17	2215	Production Monitor (PM)	At the end of the production monitoring cycle, the PM recalls the day’s more critical events.	AutoXpert Jobscape AutoSys Browser Browser Screen