

Entering Reprocessing Requests

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Entering Reprocessing Requests

Description



Overview:

This scenario depicts how one would assess the impact to a production plan of introducing reprocessing requests. Impact is measured in terms of completion date, resource cost, and data dependencies. Several large reprocessing requests for MODIS data are entered at the Goddard DAAC. The requests are entered a year after launch and require data collected over six months. The Production Planner groups the requests into a Production Request collection. After generating the collection, a report detailing the resources that would be required for the reprocessing is reviewed and a candidate plan is generated.

Assumptions:

- All information concerning the PGEs has already been entered and resides in the PDPS database.
- The PGEs to be reprocessed have undergone SSI&T.
- A resource plan has been generated

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Scenario:

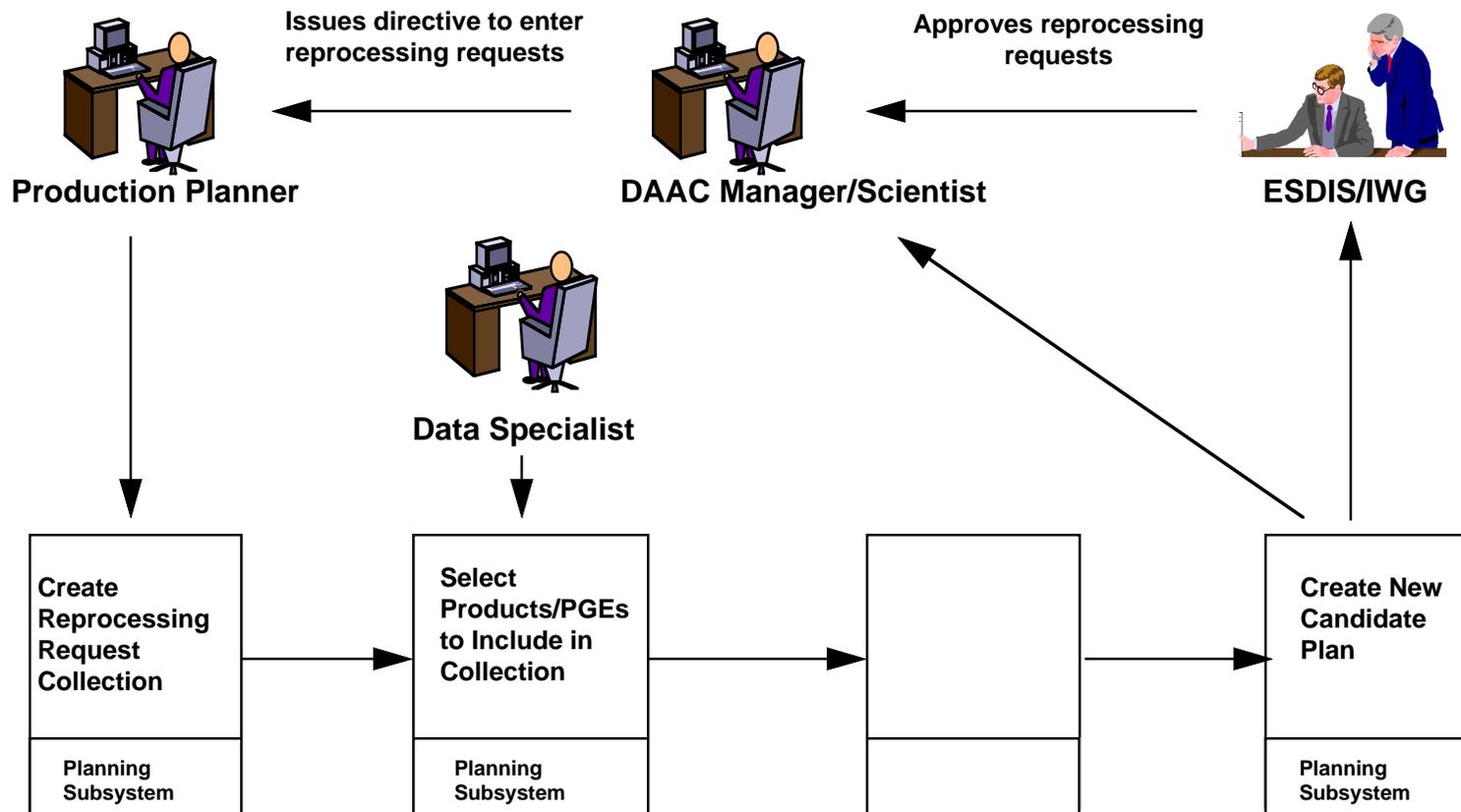
- After approval by the ESDIS Investigators Working Group (IWG), the DAAC Manager/Scientist directs the Production Planner to enter the reprocessing requests.
- From the Planning Workbench, the Production Planner invokes the Production Request Editor to enter the reprocessing requests.
- The Production Planner elects to bundle the reprocessing requests into a collection. (Alternatively, each request could be entered as a stand-alone request.)
- In consultation with the Data Specialist, the Production Planner selects a product from a displayed list. A PGE is selected for the product. A production request is generated and added to the collection. A sub-list of products at the next level that depend upon a selected product may be displayed and selected from. This process iterates until the Production Planner has selected all products to be added to the collection.
- Upon entering data for all production requests, the Production Planner reviews a report providing resource utilization costs (CPU, I/O, disk usage, required input data) per PGE and for the entire collection.
- The Production Planner creates a new candidate plan that incorporates the reprocessing collection (see **Routine Planning** scenario). The candidate plan estimated completion date is compared with the completion target date entered by the Production Planner.

Heritage:

- Operations Concept for the ECS Project: Part 2B - ECS Release B 604-CD-002-002 (Planning Reprocessing Requests Scenario)
- Release B IDR 705-CD-005-001 Day 1 (Nominal Operations Scenario)

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Functional Flow



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Points of View



Production Planner



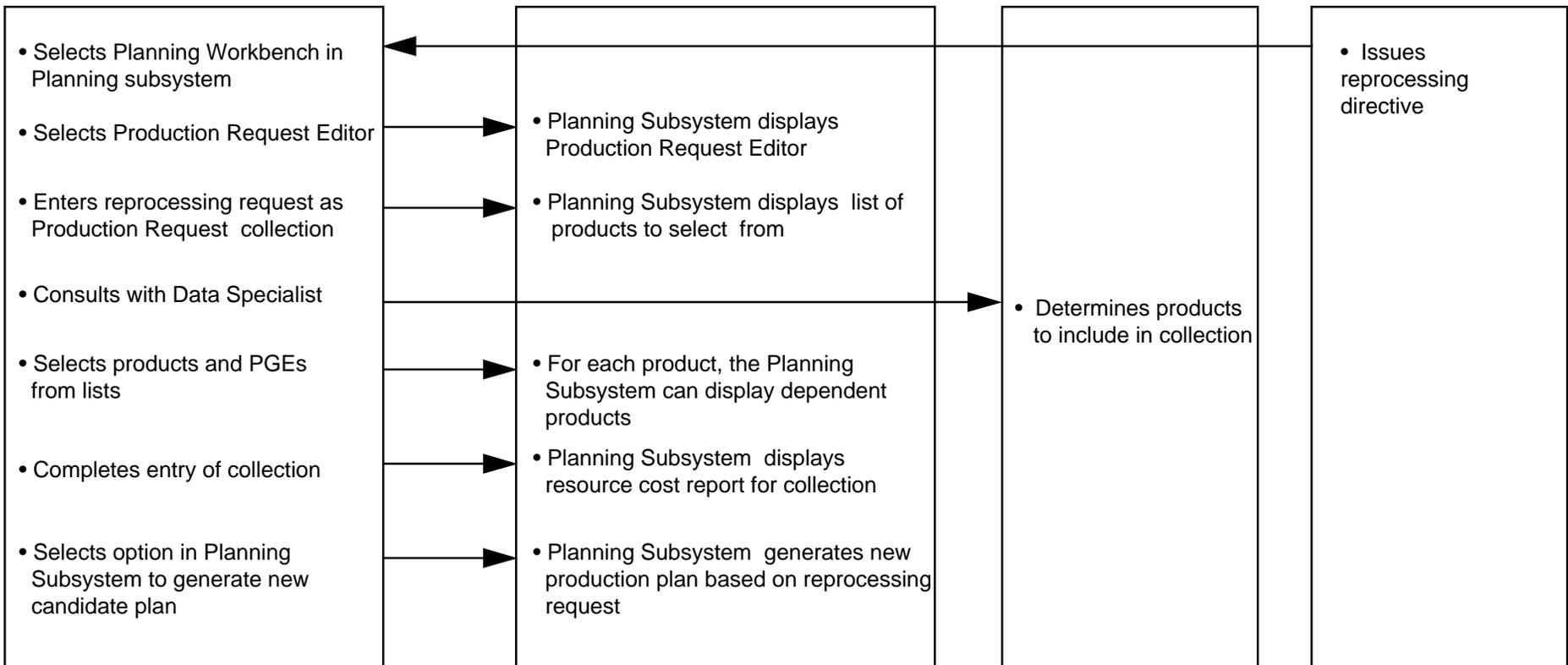
Planning Subsystem



Data Specialist



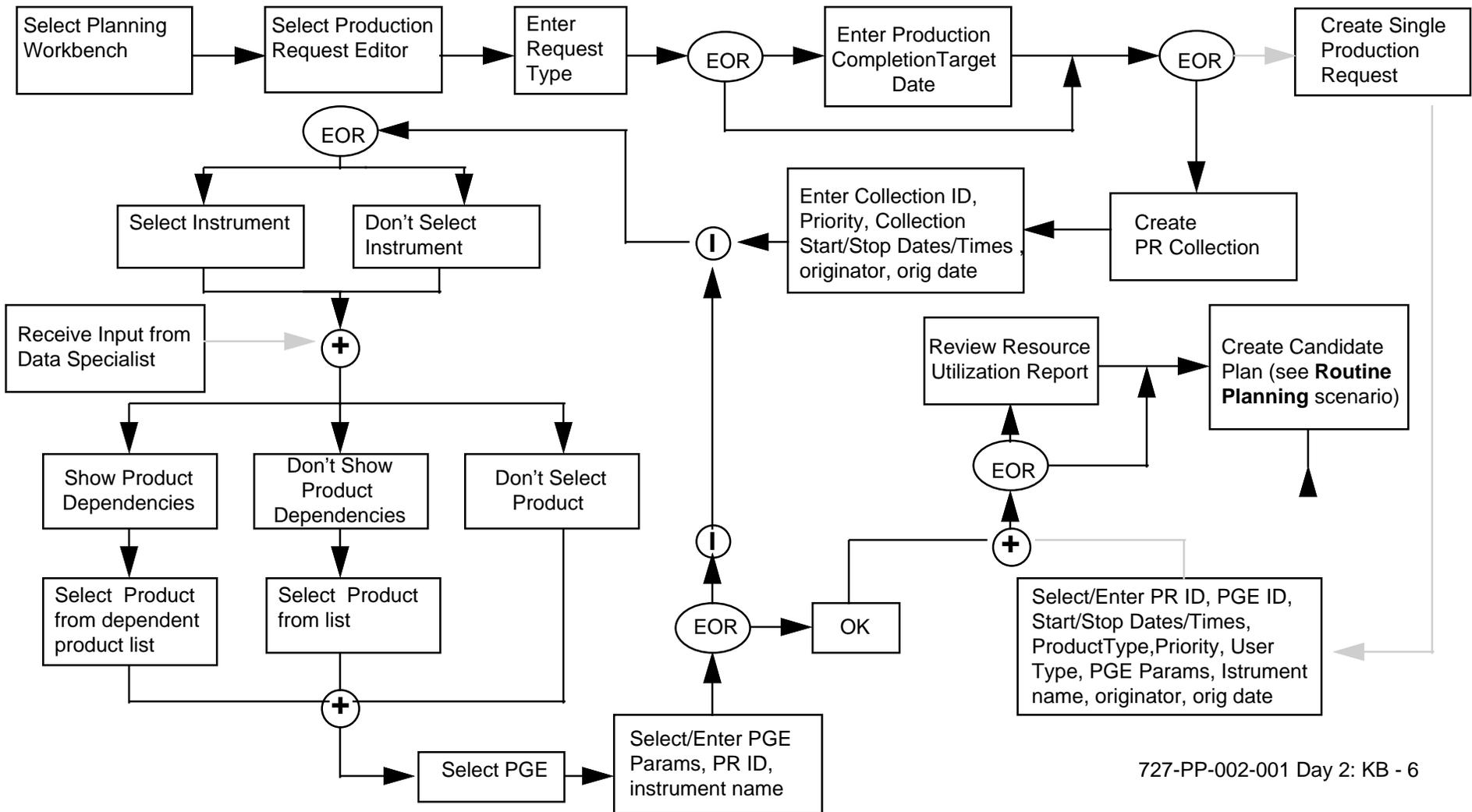
DAAC Mgr/Scientist





Entering Reprocessing Requests Workflow - Enter Reprocessing Request

Activity: Enter Reprocessing Requests
Role: Production Planner



Entering Reprocessing Requests

Data Activity



| Operator Function | Data Element | Operation Interactions |
|----------------------------|-----------------------------|------------------------|
| Enter Reprocessing Request | Start Date/Time | Input |
| | Stop Date/Time | Input |
| | Product list | Input |
| | Priority | Input |
| | Production Target Date | Input |
| | Originator | Edit |
| | Origination Date | Edit |
| | Production Request ID | Input |
| | PGE ID | Edit |
| | Product Type | Display |
| | User Type | Display |
| | Instrument Name | Display |
| | Platform Name | Display |
| | PGE Parameters | Edit |
| | Comment | Input |
| | Resource Utilization Report | Display |