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# Product Quality Assurance

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# Product Quality Assurance Description



## Overview

**This scenario describes how the Data Processing Subsystem supports QA of a product at a DAAC and a SCF.**

## Assumptions

- **The need for DAAC QA of a product has been established based upon inline QA results.**
- **A subscription request for the product has been submitted at the DAAC.**

# Product Quality Assurance

## Description



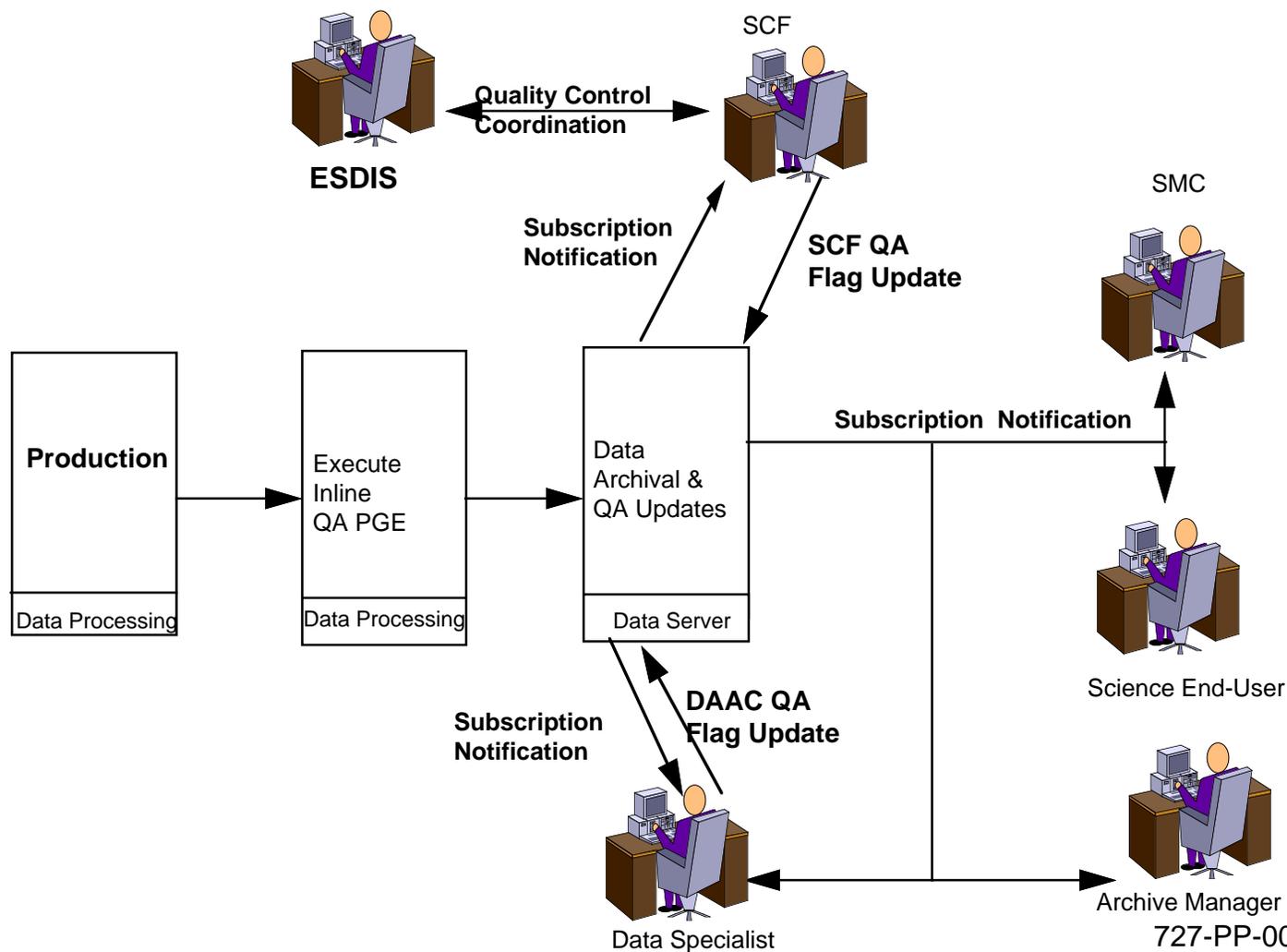
### Scenario

- At the DAAC, the Data Specialist retrieves the product from the Data Server for visual analysis. The Data Specialist sets a flag in the metadata indicating the status of the review and stores the product and metadata back to the Data Server. Next, the scientist at the SCF then retrieves the product and metadata from the Data Server to QA the product.
- The SCF gets the product from the Data Server and performs QA. Their results are forwarded to the DAAC where the Data Specialist updates the product metadata SCF flag indicating the scientists QA results. Then the product and metadata are archived to the Data Server. Users who are apprised of the quality of the product may optionally retrieve the product from the Data Server after having submitted a subscription request for it. If there is any action that needs to be taken due to the quality of the product, ESDIS and the SCF decide what should be done.

### Heritage

- Release B IDR 705-CD-005-001 Day 1 ( Nominal Operations Scenario)

# Product Quality Assurance Functional Flow



# Product Quality Assurance

## Points of View



SCF



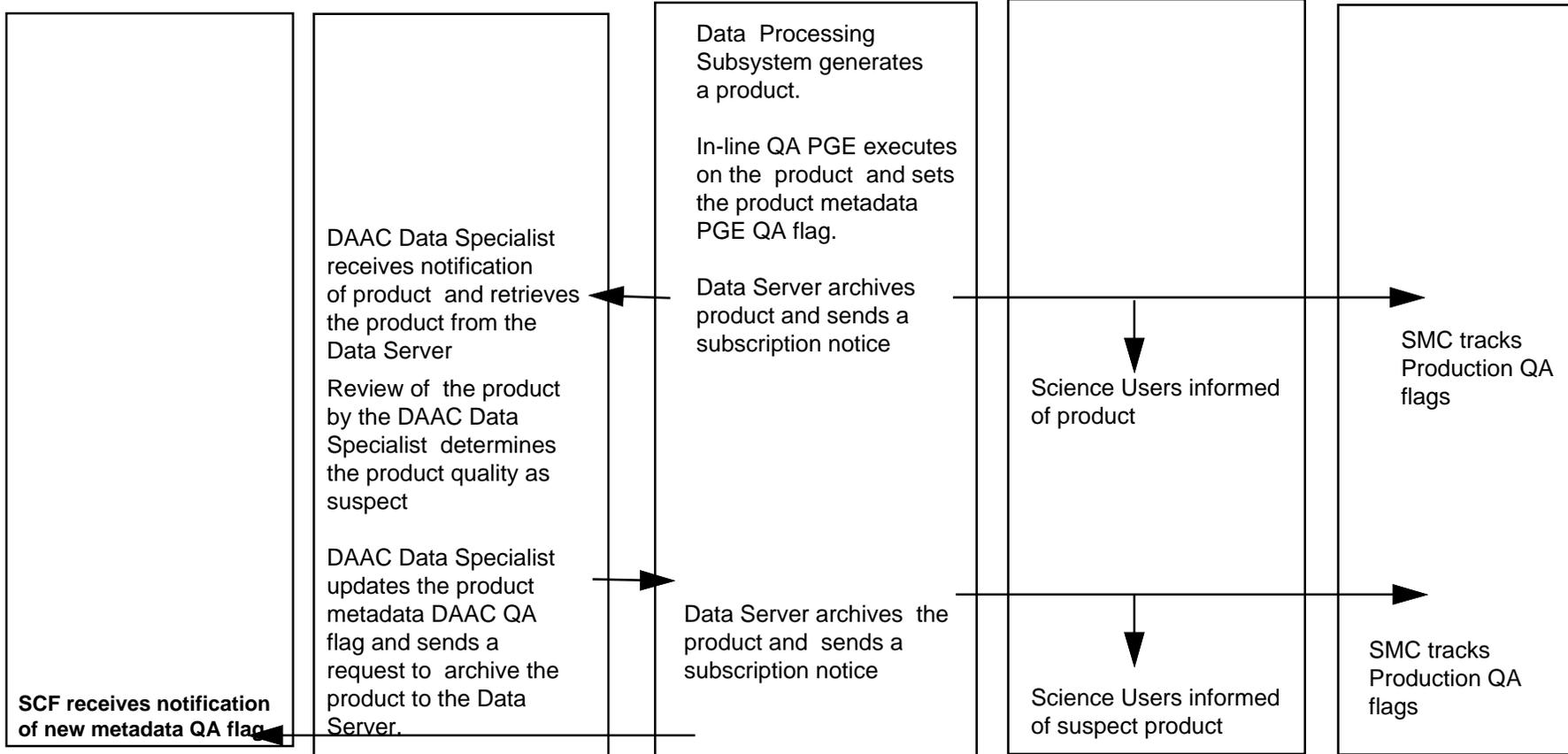
Data Specialist



Science End-User



SMC



# Quality Assurance Points of View



SCF



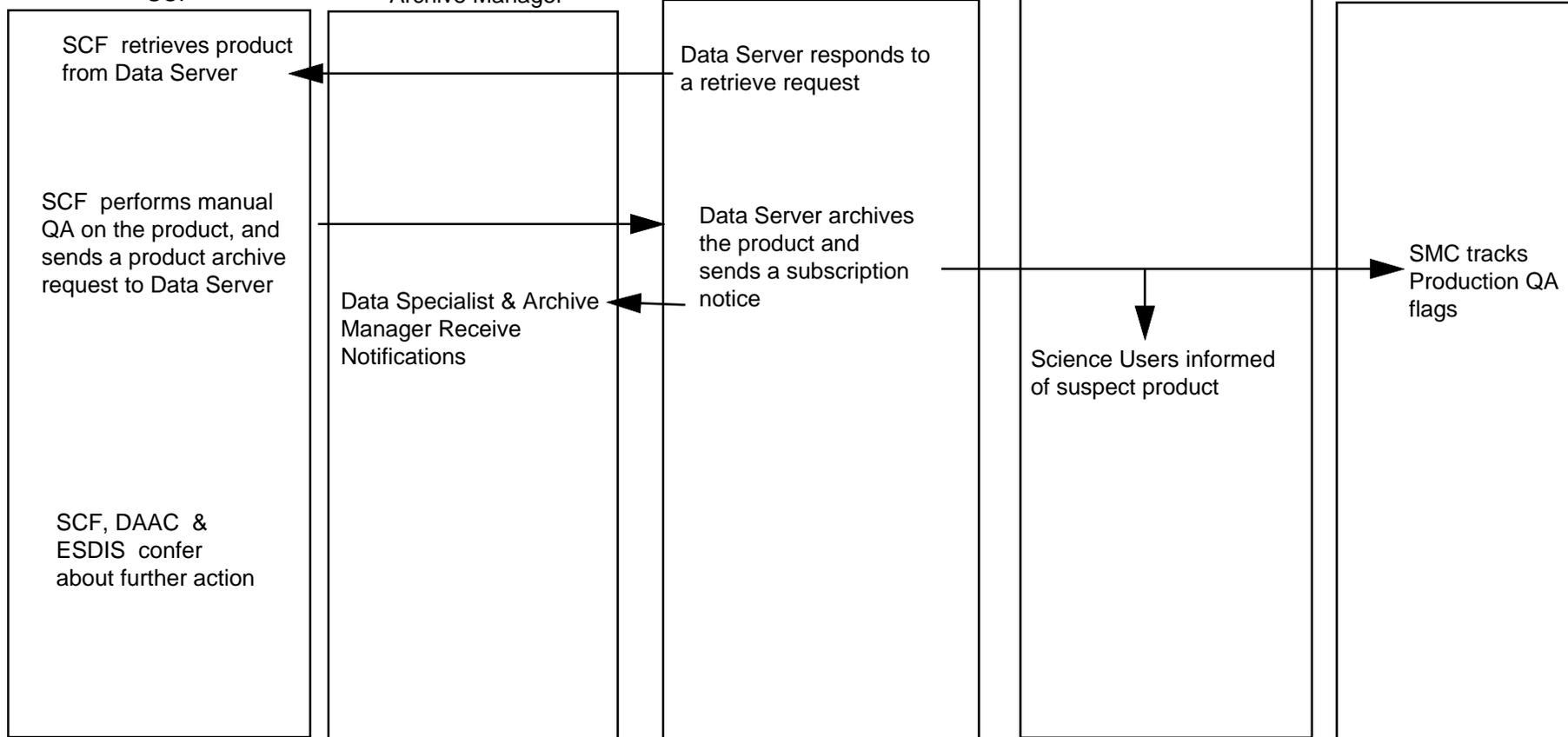
Data Specialist, &  
Archive Manager



Science End-User



SMC

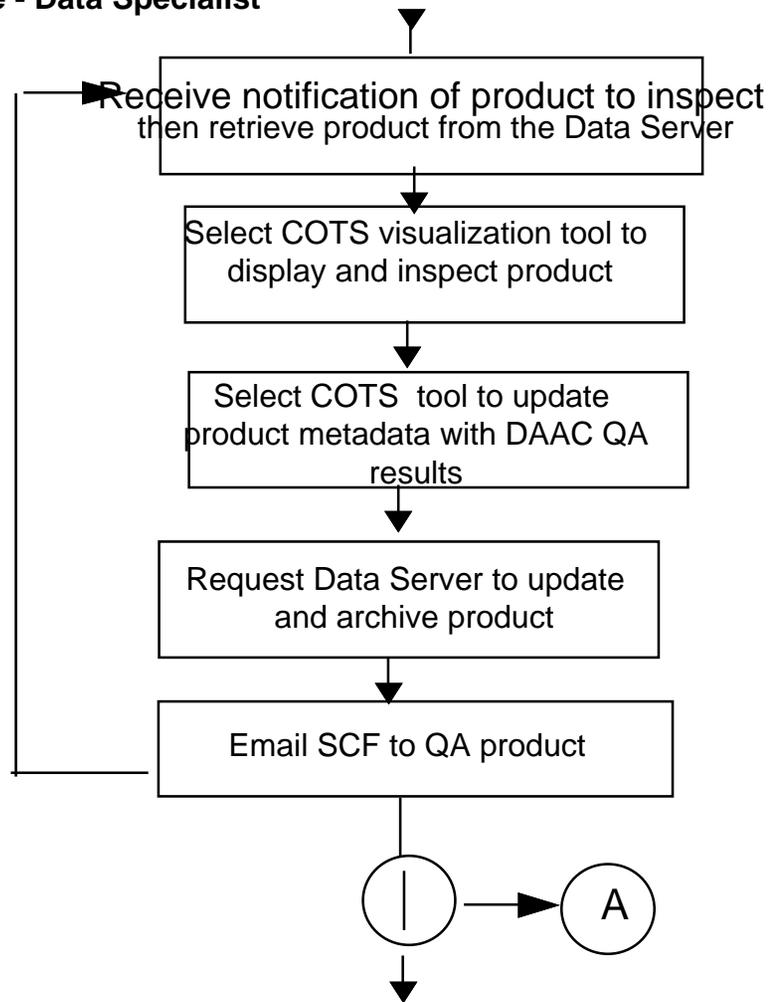


# Product Quality Assurance WorkFlow

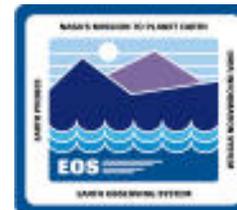


Activity - DAAC Product QA

Role - Data Specialist

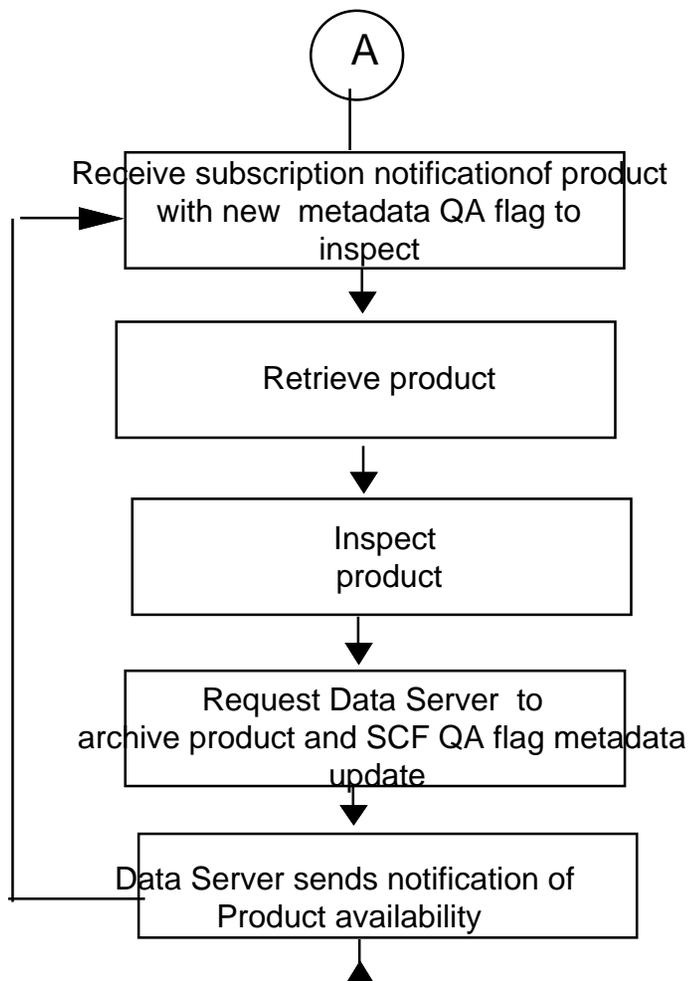


# Product Quality Assurance WorkFlow



Activity - SCF Product QA

Role - Scientist at the SCF



# Product Quality Assurance

## Data Activity



Operator Function	Data Element	Operation Interactions
DAAC Data Specialist inspects product using ECS COTS visualization tool	Granule ID	Input
	Data Product	Display
DAAC Data Specialist updates product metadata using ECS COTS editing tool	Granule Metadata	Input
	DAAC QA Flag	Edit
	SCF QA Flag	Edit