KRATOS

Lanham, Maryland

PROCEDURE
Engineering, QA/CM

Title: Product Validation   Date: 04/05/23

APPROVED BY   Author, Owning Manager, BMS Management Representative, Document Controller

David Devereaux	04/05/23	*Mark Walker* 04/05/23
David Devereaux Author		Mark Walker Owning Manager
Dilene Cruickshank	04/05/23	*David Walsh* 04/05/23
Dilene Cruickshank BMS Manager		Dave Walsh Document Controller

STATUS

Revision H revised the Author, Owning Manager, and BMS Manager of this document.

A. PURPOSE AND SCOPE

Product validation demonstrates that a product fulfills its intended use when tested in the customer's (internal or external) environment.

Project Managers, Project Teams, and Customers follow this procedure when validating products. This procedure applies to all EPOCH IPS products as well as any Mission Unique Software (MUS) that was developed outside the products to complete the delivered system.

B. Roles and Responsibilities

A brief summary of the authorities and responsibilities of the various parties involved in Product validation is given in Table 1.

Table 1. Authorities and Responsibilities for Product Validation

FUNCTION	AUTHORITY AND RESPONSIBILITY
Head of Commercial Products and/or Product Managers	The Head of Commercial Products and/or Product Managers approves the release of new versions of Kratos Commercial Off-The-Shelf (COTS) products to customers.

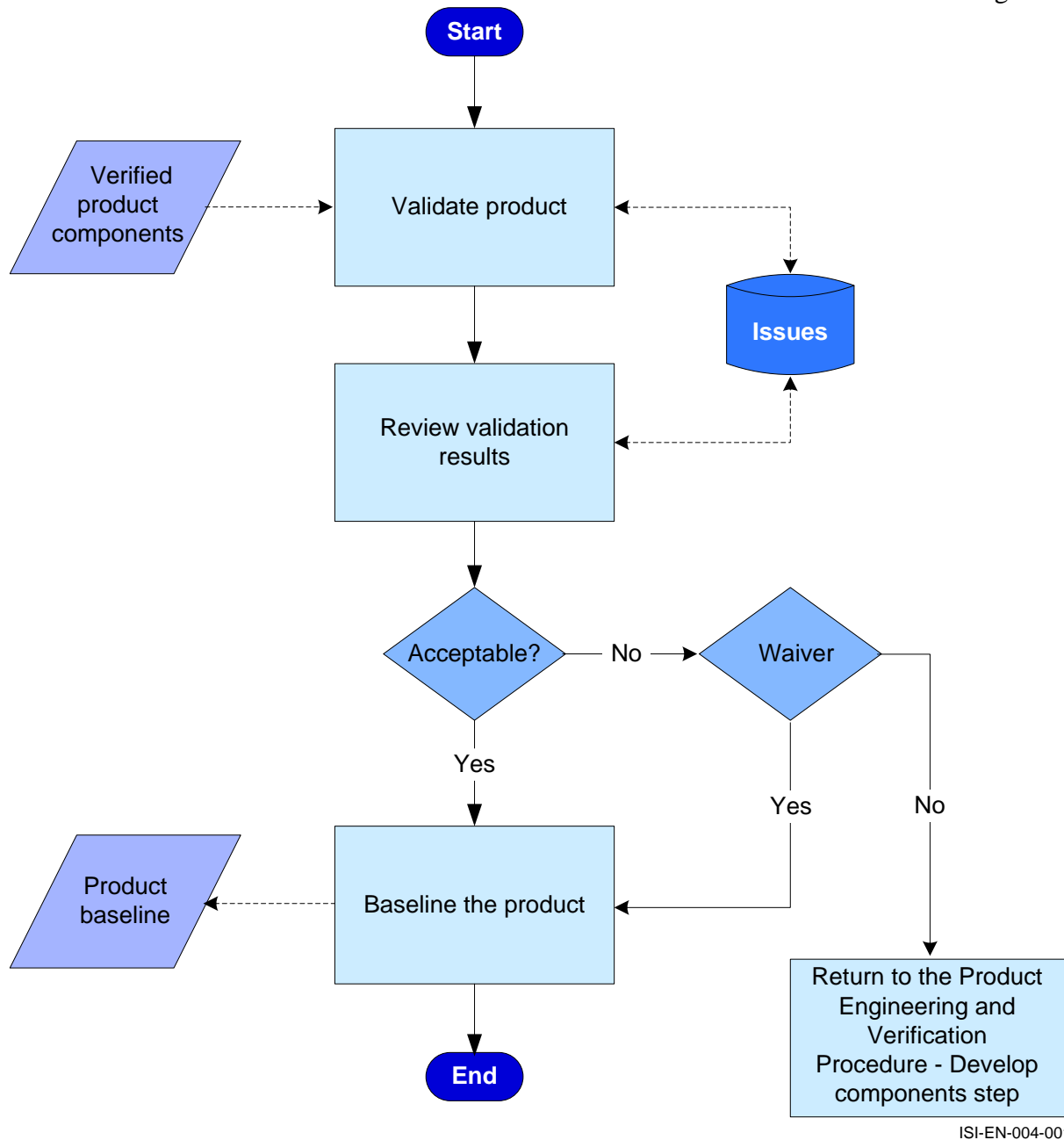| FUNCTION	AUTHORITY AND RESPONSIBILITY
Product and/or Project Managers	Product and/or Project Managers participate in product validation and review. The Head of Commercial Products and product managers can approve release of new versions of Kratos EPOCH IPS products to customers,
	Commercial and Federal project managers approve release of their products to their customers
	Product and/or Project Managers document change requests in the Project Issues Database and generate the Validation Review Records
Project Team	Establishes the Product Baseline together with the Project Manager
Customer	Participates in Product validation and review
	Decides whether or not the Product is acceptable for establishing a Product Baseline

C. INPUTS

The following inputs are used for product validation:
1. Project requirements
2. Product requirements
3. Product test plan
4. Project test plan
5. Verified products from the Product Engineering and Verification testing (EN-008)
6. Verified products from the Project Engineering and Verification testing (EN-003)

D. PROCEDURE

The Product validation procedure is illustrated in Figure 1.

Figure 1. Product Validation Process

1. Validate Product

    a. Product validation steps are:

        i. Complete System integration successfully during the Product Engineering and Verification phase.

        ii. Exercise Product level test procedures designated for the product validation phase successfully with the baselined software and hardware test environment including any required MUS.

        iii. Exercise Project level test procedures designated for the system level validation phase successfully with the baselined software.

    b. Product acceptance steps are:

        i. Use Test output to validate requirements where possible

        ii. Get a Waiver approval or deviation change request approved by both the customer and project manager

        iii. Include the following status information in the test report:

            1. Hardware used

            2. Software release

            3. Product identification

            4. Test status of either ACCEPTABLE or UNACCEPTABLE

            5. Date

2. Review Validation Results

    The Project Manager reviews the results of the Product Validation and supporting material.

    a. If Product test result is ACCEPTABLE

        i. Project manager notifies the product manager that the product can be baselined

        ii. The Project Manager generates a Record documenting the release decision.

    b. If Product test result is UNACCEPTABLE

        i. Project manager notifies the product manager of the discrepancies

        ii. Project manager provides the test data and the test procedures to the product manager

        iii. Product developers implement proposed remedy.

        iv. Product manager notifies the project manager when a new version of the product is available for testing

        v. Product is retested

3. Baseline the Product

When the Product is approved for release, the Project Manager and Project Team establish a Project Baseline using the validated product components as documented in the Project Test Plan. Otherwise, the desired changes documented in the Project Issues Database are addressed based on Project Schedule or in the next Development Cycle.

RECORDS

Table 2 lists records associated with this procedure.

Table 2. Records

NAME	LOCATION	RESPONSIBILITY	MINIMUM BACKUP FREQ.	MINIMUM RETENTION PERIOD
Validation Review Records	Project Database/Responsible Project/Electronic Records Area	Project Manager	Weekly	3 Years
Product Baseline Records	Project Database/Responsible Project/Electronic Records Area	Project Manager	Weekly	3 Years
Test Results	Project Database/Responsible Project/Electronic Records Area	Project Manager	Weekly	3 Years

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Table 3: Revision History

REVISION LETTER	DATE	DESCRIPTION
H	04/05/23	Updated the Author, Owning Manager, and BMS Manager. Rearranged the document structure to improve readability and understanding.
G	01/14/20	Updated "Review Validation Results", removed Razor and ISI references