VIP ETS Test and Evaluation

Process Asset Library

Office of Information and Technology
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VIP ETS Test and Evaluation Process Map

VIP ETS Test and Evaluation (VETE)

Project Manager

VETE-02 Review ETS Risk Analysis Summary

VETE-03 ETS Services Elected?

YES

VETE-07 Review ETS Test Plan Summary

VETE-11 Update Rational Team Concert Project Instance

NO

Release Agent

VETE-12 Review Rational Team Concert Project Instance

Enterprise Testing Service (ETS) Analyst

VETE-01 Conduct Build CARA

VETE-04 Plan ETS Service Engagements

VETE-06 Additional Builds?

YES

VETE-05 Create ETS Test Plan Summary

NO

VETE-08 Update ETS Test Plans

VETE-09 Conduct ETS Services

VETE-10 Deliver ETS Test Analysis Summary

VETE-13 Address Additional Builds

The links in this process map are inactive. Please scroll to view activity data.
Process: VIP ETS Test and Evaluation

Overview: The process map for VIP ETS Test and Evaluation cycles through the following process and review activities:

VETE-01 Conduct Build CARA
VETE-02 Review ETS Risk Analysis Summary
VETE-03 ETS Services Elected?
VETE-04 Plan ETS Service Engagements
VETE-05 Create ETS Test Plan Summary
VETE-06 Additional Builds?
VETE-07 Review ETS Test Plan Summary
VETE-08 Update ETS Test Plans
VETE-09 Conduct ETS Services
VETE-10 Deliver ETS Test Analysis Summary
VETE-11 Update Rational Team Concert Project Instance
VETE-12 Review Project Instance in Rational Team Concert
VETE-13 Continue Additional Build Testing?
VIP ETS Test and Evaluation Description and Goals

**Description**

Enterprise Testing Service (ETS), an organization within Enterprise Program Management Office (EPMO), works hand-in-hand with Enterprise Project Management (EPMD) to provide an independent risk based evaluation of development artifacts and product software. The evaluation helps the Office of Information and Technology (OI&T) management minimize risk of schedule delays, cost overrun, poor quality, and software failure.

ETS provides:

- Test environments on which software products can be tested
- Independent evaluations of project artifacts and project software

Services falling under the category of Test Environments include:

- New test database in the ETS Test Center (ETSTC)
- Miscellaneous issue for help with an ETSTC testing environment problem
- Database refresh
- Database backup/restore
- User access request to add/reset/modify/deactivate user access to an existing ETSTC environment

Test environment services are requested with an ETSTC Service Request.

Services falling under the category of Independent Evaluations include:

- Work product reviews of project artifacts
- Test observation and validation of the operation and use of the software product
- Various types of testing including legacy Patient Safety Issue (PSI) testing, risk-based independent testing, performance testing, and system integration testing

**Goals**

- Mitigate risk and provide feedback throughout the lifecycle
- Ensure that products meet acceptable quality levels before promotion
- Provide feedback for continuous improvement for process improvement
- Continuously improve the likelihood that a quality product which meets user requirements is deployed on time and on budget
- Ensure consistency in the testing methodologies and practices during Agile development
- Validate that products are technically ready for incorporation into the VA infrastructure
VIP ETS Test and Evaluation RACI Information

The following describes the RACI information for this process:

**VETE-01 Conduct Build CARA**

Responsible Role: Enterprise Testing Service (ETS) Analyst  
Accountable Role: Director, Enterprise Testing Service  
Consulted Role: Project Team  
Informed Role: None Listed

**VETE-02 Review ETS Risk Analysis Summary**

Responsible Role: Project Manager  
Accountable Role: Program Manager  
Consulted Role: None Listed  
Informed Role: Stakeholder(s); IT Resource Manager

**VETE-03 ETS Services Elected?**

Responsible Role: Project Manager  
Accountable Role: Product Manager  
Consulted Role: None Listed  
Informed Role: Stakeholder(s)

**VETE-04 Plan ETS Service Engagements**

Responsible Role: Enterprise Testing Service (ETS) Analyst  
Accountable Role: Director, Enterprise Testing Service  
Consulted Role: None Listed  
Informed Role: Project Manager

**VETE-05 Create ETS Test Plan Summary**

Responsible Role: Enterprise Testing Service (ETS) Analyst
Accountable Role: Director, Enterprise Testing Service
Consulted Role: Project Team
Informed Role: None Listed

VETE-06 Additional Builds?

Responsible Role: Enterprise Testing Service (ETS) Analyst
Accountable Role: Director, Enterprise Testing Service
Consulted Role: None Listed
Informed Role: None Listed

VETE-07 Review ETS Test Plan Summary

Responsible Role: Project Manager
Accountable Role: Program Manager
Consulted Role: Enterprise Testing Service (ETS) Analyst; Project Manager; Project Team
Informed Role: Release Agent

VETE-08 Update ETS Test Plans

Responsible Role: Enterprise Testing Service (ETS) Analyst
Accountable Role: Director, Enterprise Testing Service
Consulted Role: Project Manager; Project Team
Informed Role: Stakeholder(s)

VETE-09 Conduct ETS Services

Responsible Role: Enterprise Testing Service (ETS) Analyst
Accountable Role: Director, Enterprise Testing Service
Consulted Role: None Listed
Informed Role: Project Manager

VETE-10 Deliver ETS Test Analysis Summary
Responsible Role: Enterprise Testing Service (ETS) Analyst
Accountable Role: Director, Enterprise Testing Service
Consulted Role: None Listed
Informed Role: Release Agent; Project Team; Project Manager

**VETE-11 Update Rational Team Concert Project Instance**

Responsible Role: Project Manager
Accountable Role: Program Manager
Consulted Role: None Listed
Informed Role: Release Agent

**VETE-12 Review Project Instance in Rational Team Concert**

Responsible Role: Release Agent
Accountable Role: Release Manager
Consulted Role: None Listed
Informed Role: None Listed

**VETE-13 Continue Additional Build Testing?**

Responsible Role: Enterprise Testing Service (ETS) Analyst
Accountable Role: Director, Enterprise Testing Service
Consulted Role: None Listed
Informed Role: Stakeholder(s)
VIP ETS Test and Evaluation Associated Artifacts Information
Associated Artifacts information (including hyperlinks) for this process includes:
ETS Risk Analysis Summary
ETS Test Analysis Summary
ETS Test Plan Summary
Project Management Plan (PMP) Template

VIP ETS Test and Evaluation Tools and Web Sites Information
The Tools and Web Sites associated with this process (including hyperlinks) include:
Capacity and Performance Engineering SharePoint site
Enterprise Testing Service Portal
Enterprise Testing Service Project Reviews Portal
Hewlett Packard Enterprise Application LifeCycle Management
Jazz User List
POLARIS Enterprise Release Calendar
Rational Quality Manager (Quality Management)
Rational Requirements DOORS Next Generation
Rational Team Concert (Change/Configuration Management)
Risk Management and Incident Response (RMIR) Portal
Veteran-Focused Integration Process Request (VIPR)
VIP Dashboard

VIP ETS Test and Evaluation Standards Information
Standards associated with this process (including hyperlinks) include:
Enterprise Testing Service Test Center Service Request Form Quick Reference Guide
Enterprise Testing Service Testing Guide
IEEE Standard 829 for Software and System Test Documentation
Rational Team Concert (RTC) How to Import Work Item Data into RTC Work Instructions
Release Requirements User Stories Decision Tree

VIP ETS Test and Evaluation Process
Process Activity Name: VETE-01 Conduct Build CARA

Previous Activities
Process Begins
**Next Activities**
VETE-02 Review ETS Risk Analysis Summary

**Description**
The Enterprise Testing Service (ETS) Analyst performs a risk based assessment (Criticality Analysis and Risk Assessment (CARA)) of requirements outlined in the Epics, Sub-Epics and User Stories. The ETS Risk Analysis Summary (RAS) documents the type(s) of testing services that are performed on the project during ETS Testing.

If performance testing is one of the services to be performed, the ETS Risk Analysis Summary (RAS) provides additional information.

**Input**
Business Case Document
Business Epics
Business Sub-epics
Business User Stories
Compliance Epics
Compliance Sub-epics
Compliance User Stories

**Output**
ETS Risk Analysis Summary

**Associated Artifacts**
ETS Risk Analysis Summary

**Responsible Role**
Enterprise Testing Service (ETS) Analyst

**Accountable Role**
Director, Enterprise Testing Service

**Consulted Role**
Project Team

**Informed Role**
None Listed

**Tools and Websites**
Enterprise Testing Service Portal
Veteran-Focused Integration Process Request (VIPR)
Process Activity Name: VETE-02 Review ETS Risk Analysis Summary

Previous Activities
VETE-01 Conduct Build CARA

Next Activities
VETE-03 ETS Services Elected?

Description
The Project Manager reviews all testing intake assessment results, including Risk Analysis Summary (RAS) or closure email. The Project Manager then incorporates Enterprise Testing Service (ETS) Testing Services into project plans and schedules.

Input
ETS Risk Analysis Summary
Project Schedule
Project Test Plan

Output
Updated Project Schedule
Updated Project Test Plan

Associated Artifacts
None Listed

Responsible Role
Project Manager

Accountable Role
Program Manager

Consulted Role
None Listed

Informed Role
Stakeholder(s); IT Resource Manager
Tools and Websites
Rational Team Concert (Change/Configuration Management)
Risk Management and Incident Response (RMIR) Portal

Standards
Release Requirements User Stories Decision Tree

More Info
When the Project Test Plan is updated, also update the Compliance User Stories contained in the project/product instance of the Rational Requirements Management repository.

Process Activity Name: VETE-03 ETS Services Elected?

Previous Activities
VETE-02 Review ETS Risk Analysis Summary

Next Activities
If "Yes":
VETE-04 Plan ETS Service Engagements
Or
If "No":
Process Ends

Description
The Project Manager decides if Enterprise Testing Service (ETS) services are needed (Yes) or not (No) as a result of reviewing the Risk Analysis Summary (RAS) prepared by ETS.

Responsible Role
Project Manager

Accountable Role
Product Manager

Consulted Role
None Listed

Informed Role
Stakeholder(s)

Process Activity Name: VETE-04 Plan ETS Service Engagements

Previous Activities
VETE-03 ETS Services Elected?

Next Activities
VETE-05 Create ETS Test Plan Summary
Description
The Enterprise Testing Service (ETS) Test Analysts plan their testing service engagement. The scope and type of testing is defined in the Risk Analysis Summary (RAS) for the project.

Services include but are not limited to:
- Interoperability/Integration Testing
- Legacy Patch Testing for Patient Safety Issues
- Requirements Validation
- Test Observation and Validation
- Performance Testing
- Software Code Quality Check

Input
ETS Risk Analysis Summary
Elaborated User Stories in Rational Requirements DOORS Next Generation Project Instance

Output
Updated ETS Risk Analysis Summary

Associated Artifacts
ETS Risk Analysis Summary

Responsible Role
Enterprise Testing Service (ETS) Analyst

Accountable Role
Director, Enterprise Testing Service

Consulted Role
None Listed

Informed Role
Project Manager

Tools and Websites
Enterprise Testing Service Project Reviews Portal
Rational Requirements DOORS Next Generation
Rational Team Concert (Change/Configuration Management)

Standards
None Listed
**Process Activity Name: VETE-05 Create ETS Test Plan Summary**

**Previous Activities**
VETE-04 Plan ETS Service Engagements

**Next Activities**
VETE-06 Additional Builds?

**Description**
The ETS Analyst creates the ETS Test Plan Summary (TPS) for each sprint for which ETS plans a service.

**Input**
Risk Analysis Summary
Rational Requirements DOORS Next Generation Project Instance

**Output**
ETS Test Plan Summary (TPS)

**Associated Artifacts**
ETS Test Plan Summary

**Responsible Role**
Enterprise Testing Service (ETS) Analyst

**Accountable Role**
Director, Enterprise Testing Service

**Consulted Role**
Project Team

**Informed Role**
None Listed

**Tools and Websites**
Rational Quality Manager (Quality Management)
Rational Team Concert (Change/Configuration Management)

**Standards**
IEEE Standard 829 for Software and System Test Documentation

**More Info**
None Listed
Process Activity Name: VETE-06 Additional Builds?

Previous Activities
VETE-05 Create ETS Test Plan Summary

Next Activities
If "Yes":
VETE-07 Review ETS Test Plan Summary
Or
If "No":
VETE-01 Conduct Build CARA

Description
The Enterprise Testing Service (ETS) Analyst determines if there are additional builds planned (Yes) or not (No).

Responsible Role
Enterprise Testing Service (ETS) Analyst

Accountable Role
Director, Enterprise Testing Service

Consulted Role
None Listed

Informed Role
None Listed

Process Activity Name: VETE-07 Review ETS Test Plan Summary

Concurrent Activities
VETE-08 Update ETS Test Plans

Previous Activities
VETE-06 Additional Builds?

Next Activities
VETE-08 Update ETS Test Plans

Description
The Project Manager reviews the ETS Test Plan Summary (TPS) for each Sprint, determines impact if any on Project Schedule, Project Management Plan, and VIP Dashboard and updates any affected.

Input
ESE Test Plan Summary (TPS)
Project Management Plan
Project Schedule
VIP Dashboard

Output
Updated Project Management Plan
Updated Project Schedule
Updated VIP Dashboard

Associated Artifacts
None Listed

Responsible Role
Project Manager

Accountable Role
Program Manager

Consulted Role
Enterprise Testing Service (ETS) Analyst; Project Manager; Project Team

Informed Role
Release Agent

Tools and Websites
Rational Team Concert (Change/Configuration Management)
Rational Quality Manager (Quality Management)
VIP Dashboard

Standards
None Listed

More Info
None Listed

Process Activity Name: VETE-08 Update ETS Test Plans

Previous Activities
VETE-07 Review ETS Test Plan Summary

Next Activities
VETE-09 Conduct ETS Services

Description
The ETS Analyst updates the ETS Test Plan Summary (TPS) for each Build for which ETS plans a service.
Input
ETS Test Plan Summary
Project Management Plan
Project Schedule
ETS Project Level Risk Analysis Summary

Output
ETS Build Level Risk Analysis Summary
Updated ETS Test Plan Summary (TPS)

Associated Artifacts
ETS Test Plan Summary

Responsible Role
Enterprise Testing Service (ETS) Analyst

Accountable Role
Director, Enterprise Testing Service

Consulted Role
Project Manager; Project Team

Informed Role
Stakeholder(s)

Tools and Websites
Enterprise Testing Service Project Reviews Portal
Rational Team Concert (Change/Configuration Management)
Rational Quality Manager (Quality Management)

Standards
Enterprise Testing Service Testing Guide

More Info
None Listed

Process Activity Name: VETE-09 Conduct ETS Services

Previous Activities
VETE-08 Update ETS Test Plans

Next Activities
VETE-10 Deliver ETS Test Analysis Summary
**Description**
The ETS Test Analyst conducts ETS Services on the testable portions of the product as elected by the Project Manager. The ETS Analyst performs the ETS Services on the completed sprints that result in a deliverable product.

**Input**
Completed Sprints
ETS Test Plan Summary
Rational Requirements DOORS Next Generation Project Instance

**Output**
ETS Test Analysis Summary
Defect Reports as applicable

**Associated Artifacts**
ETS Test Analysis Summary

**Responsible Role**
Enterprise Testing Service (ETS) Analyst

**Accountable Role**
Director, Enterprise Testing Service

**Consulted Role**
None Listed

**Informed Role**
Project Manager

**Tools and Websites**
Hewlett Packard Enterprise Application LifeCycle Management

**Standards**
Release Requirements User Stories Decision Tree

**More Info**
When the Defect Reports are updated, also update the Compliance User Stories contained in the project/product instance of the Rational Requirements Management repository.

**Process Activity Name: VETE-10 Deliver ETS Test Analysis Summary**

**Previous Activities**
VETE-09 Conduct ETS Services

**Next Activities**
VETE-11 Update Rational Team Concert Project Instance
Description
The ETS Analyst delivers the ETS Test Analysis Summary (TAS) to the Project Team, the Project Manager and the Release Agent providing the summary results of the test and evaluations conducted for review and appropriate action.

Input
ETS Defect Reports
ETS Test Results

Output
Delivered ETS Test Analysis Summary

Associated Artifacts
None Listed

Responsible Role
Enterprise Testing Service (ETS) Analyst

Accountable Role
Director, Enterprise Testing Service

Consulted Role
None Listed

Informed Role
Release Agent; Project Team; Project Manager

Tools and Websites
Rational Team Concert (Change/Configuration Management)
Rational Quality Manager (Quality Management)

Standards
None Listed

More Info
None Listed

Process Activity Name: VETE-11 Update Rational Team Concert Project Instance

Previous Activities
VETE-10 Deliver ETS Test Analysis Summary

Next Activities
VETE-12 Review Project Instance in Rational Team Concert
**Description**
The Project Manager updates the data contained in Rational Requirements DOORS Next Generation Project Instance with results of the ETS Test Analysis Summary.

**Input**
ETS Test Analysis Summary
Rational Team Concert Project Instance

**Output**
Updated Rational Team Concert Project Instance

**Associated Artifacts**
None Listed

**Responsible Role**
Project Manager

**Accountable Role**
Program Manager

**Consulted Role**
None Listed

**Informed Role**
Release Agent

**Tools and Websites**
Rational Team Concert (Change/Configuration Management)

**Standards**
Rational Team Concert (RTC) How to Import Work Item Data into RTC Work Instructions

**More Info**
None Listed

**Process Activity Name:** VETE-12 Review Project Instance in Rational Team Concert

**Previous Activities**
VETE-11 Update Rational Team Concert Project Instance

**Next Activities**
VETE-13 Continue Additional Build Testing?

**Description**
The Release Agent reviews the Project instance in the Rational Team Concert for each Build to ensure the ETS Test Analysis Summary results are included in accordance with VIP Guide and VIP Release Process Guide requirements.
Input
ETS Test Analysis Summary
Rational Team Concert Project Instance

Output
Updated Rational Team Concert Project Instance

Associated Artifacts
None Listed

Responsible Role
Release Agent

Accountable Role
Release Manager

Consulted Role
None Listed

Informed Role
None Listed

Tools and Websites
Rational Team Concert (Change/Configuration Management)

Standards
None Listed

More Info
None Listed

Process Activity Name: VETE-13 Continue Additional Build Testing?

Previous Activities
VETE-12 Review Project Instance in Rational Team Concert

Next Activities
If "Yes":
VETE-07 Review ETS Test Plan Summary
Or
If "No":
Process Ends

Description
The Enterprise Testing Service (ETS) Analyst determines if Yes, there is need to address additional builds contained in the Project Management Plan or not.
**Responsible Role**
Enterprise Testing Service (ETS) Analyst

**Accountable Role**
Director, Enterprise Testing Service

**Consulted Role**
None Listed

**Informed Role**
Stakeholder(s)

END OF PROCESS.