

Primavera 5.0 Partner Application Test Specification



Creation Date: November 7, 2005

Last Updated: April 11, 2006

Document Ref: [Partner Program: Certification](#)

Version: 4.3.2006

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Introduction

The Primavera Partner Certification Program enables ISV Technology Partners to differentiate their solutions from those of their competitors. An ISV must be a Primavera partner to become certified. The process involves verification of ISV product installation, verification of data integration with Primavera and verification of described functionality. Upon passing, certified Technology Partners will receive a "Primavera Certified" logo for marketing purposes.

The Primavera 5.0 Partner Application Test was developed by Primavera and Lionbridge Technologies (VeriTest) to define the minimum requirements for an application to be certified as a technology partner product. This specification is intended to ensure an application:

- Is reliable and its primary functionality as defined by acceptance criteria works properly
- Does not impact the reliability of Primavera or the system (operating system, database)
- Does not restrict the functionality of Primavera
- Is unlikely to be adversely affected when Primavera is upgraded

Test Checklist

1 *Install/Uninstall*

1.1 Requirements

- 1.1.1 Do not replace files installed by or Registry entries made by Primavera 5.0
- 1.1.2 Do not modify the physical schema of the databases installed by Primavera 5.0
- 1.1.3 Do not add files to the Primavera program directory
- 1.1.4 Provide Installation Instructions

1.2 Recommendations

- 1.2.1 Provide Installation Program
- 1.2.2 Identify Required Supporting Software (JDK, JRE, API, SDK, MDAC, etc.)
- 1.2.3 Provide 3rd party software or simulators required for functional tests (SAP, Maximo, Expedition, etc.)

2 *Functionality*

2.1 Requirements

- 2.1.1 Provide functional acceptance tests
- 2.1.2 Perform primary functionality and maintain stability
- 2.1.3 Do not restrict functionality of Primavera 5.0

2.2 Recommendations

- 2.2.1 Provide subset of performance and scalability tests
- 2.2.2 Provide test software for running automated test scripts
- 2.2.3 Provide sample data
- 2.2.4 Provide list of known defects

3 *Fundamentals*

3.1 Requirements

- 3.1.1 Use appropriate terminology when referring to Primavera Software
- 3.1.2 Use correct contact information in documentation and help systems
- 3.1.3 Use Primavera and Partner logos in accordance with corporate standards
- 3.1.4 Use only Primavera Integration API to write to Primavera databases

Install/Uninstall

1 Summary of Installation Requirements

1.1 Requirements

- 1.1.1 Do not replace files installed by or Registry entries made by Primavera 5.0
- 1.1.2 Do not modify the physical schema of the databases installed by Primavera 5.0
- 1.1.3 Do not add files to the Primavera program directory
- 1.1.4 Provide Installation Instructions

1.2 Recommendations

- 1.2.1 Provide Installation Program
- 1.2.2 Identify Required Supporting Software (JDK, JRE, API, SDK, MDAC, etc.)
- 1.2.3 Provide 3rd party software or simulators required for functional tests (SAP, Maximo, Expedition, etc.)

How to Comply with Installation Requirements

1.1.1 Do not replace files installed by or Registry entries made by Primavera 5.0

It is not acceptable for an application to modify or replace any files installed by, or any Registry entries made by the Primavera 5.0 application other than those listed below. Any other modifications may be overwritten during upgrades and updates of these Primavera products, as they do not check these files or Registry entries for modifications.

Only the following files may be modified:

```
<InstallationFolder>\Project Management\PM.ini  
<InstallationFolder>\Portfolio Analysis\PA.ini  
<InstallationFolder>\Methodology Management\MM.ini
```

Only the following registry key may be modified:

```
HKEY_LOCAL_MACHINE\SOFTWARE\Primavera\Shared\External Applications
```

1.1.2 Do not modify the physical schema of the databases installed by Primavera 5.0

Applications may not modify the physical schema of the PMDB and MMDB databases installed by Primavera 5.0. This includes any actions performed against the database without explicit permission from Primavera. Tables, indexes, stored procedures, or views in the databases may not be modified. Tables, indexes, stored procedures, or views to the databases are also not permitted because of referential integrity or upgrade issues. Any changes to the database may cause problems or could be lost during updates and upgrades. Any additional tables that are needed should be added to a NEW database.

How to Test:

Using SQL Query Analyzer, all user tables, system tables, indexes, triggers on the Primavera databases (PMDb and MMDB) will be recorded before the application is

installed and compared with the results after installation. Any additions will be noted and may be grounds for failure.

1.1.3 Do not add files to the Primavera program folders

Applications may not add new files to the Primavera folders of the installed client, server or web applications. Any files added to these installation points may be overwritten during upgrades and updates. Applications should install their files in a separate directory that is linked into the website using a virtual directory. Any such links to a virtual directory will be verified.

How to Test:

The post-installation snapshot created by the VeriTest-Rational Installation Analyzer will show where new files have been installed after the installation of the product. Any new files in the Primavera program directories will be noted, and will be grounds for failure.

1.1.4 Provide Installation Instructions

It is **required** that vendors provide detailed instructions for installation of their product. See also 1.2.1 below.

1.2.1 Provide Installation Program and Instructions

It is **recommended** that vendors provide an automated installation program for their product. However, since Primavera does not expose the ability to automate all the processes needed for installation, it is acceptable that installation includes manual steps.

Likewise, it is recommended that vendors provide an automated program to remove their product from the system. It is acceptable that removing the program includes manual steps.

NOTE: Not complying with this recommendation will not be grounds for failure.

1.2.2 Identify Required Supporting Software (JDK, JRE, API, SDK, MDAC, etc.)

Since partner applications may require supporting software not required by the Primavera default configuration for certification, it is **recommended** that vendors provide a list of supporting software required to run their application. This includes any shared utilities that may have to be acquired or downloaded prior to installation.

NOTE: Not complying with this recommendation will not be grounds for failure.

1.2.3 Provide 3rd party software or simulators required for functional tests (SAP, Maximo, Expedition, etc.)

It is **recommended** that vendors provide licensed copies of or simulators for any 3rd party applications required to execute functional tests. VeriTest and Primavera will not be responsible for providing 3rd party applications. Vendors should consider time to install and configure 3rd party tools when submitting their products for certification.

NOTE: Not complying with this recommendation will not be grounds for failure, however, the validity of functional testing for integration applications will be questioned if we are unable to actually perform the integration.

Functionality

2 Summary of Functional Requirements

2.1 Requirements

- 2.1.1 Provide functional acceptance tests
- 2.1.2 Perform primary functionality and maintain stability
- 2.1.3 Do not restrict functionality of Primavera 5.0

2.2 Recommendations

- 2.2.1 Provide subset of performance and scalability tests
- 2.2.2 Provide test software for running automated test scripts
- 2.2.3 Provide sample data
- 2.2.4 Provide list of known defects

How to Comply with Functionality Requirements

2.1.1 Provide Functional Acceptance Tests

Provide functional acceptance tests. If applicable, be specific as to which part of the Primavera solution the test applies. (e.g.: web application, PM client tool, timesheets, etc.)

2.1.2 Perform primary functionality and maintain stability

To be exercised by passing all functional acceptance tests required by section 2.1.1

2.1.3 Do not restrict functionality of Primavera 5.0

To be exercised by passing all functional acceptance tests defined by below Primavera after installation of vendor utility:

- Ability to log into all Primavera modules (web application, PM client tool, timesheets)
- Open a project within the PM Client
- Add an Activity to the project.
- Assign a Resource to the Activity.
- Schedule the project by hitting “F9”.
- Close out of Primavera application.

2.2.1 Provide subset of performance and scalability tests

It is **recommended** that vendor provide tests that exercises performance and scalability characteristics

NOTE: Not complying with this recommendation will not be grounds for failure.

2.2.2 Provide test software for running automated test scripts

It is required that vendor provide functional acceptance tests, which can be manual or automated tests. If automated, vendor also needs to provide software.

NOTE: Not complying with this recommendation will not be grounds for failure.

2.2.3 Provide sample data

It is **recommended** that vendor provides any data to exercise either an acceptance or performance test.

NOTE: Not complying with this recommendation will not be grounds for failure.

2.2.4 Provide list of known defects

It is **recommended** that vendor provide a defect listing report.

NOTE: Not complying with this recommendation will not be grounds for failure.

Fundamentals

3 Summary of Fundamental Requirements

3.1 Requirements

- 3.1.1 Use appropriate terminology when referring to Primavera Software
- 3.1.2 Use correct contact information in documentation and help systems
- 3.1.3 Use Primavera and Partner logos in accordance with corporate standards
- 3.1.4 Use only Primavera Integration API to write to Primavera databases

How to Comply with Fundamental Requirements

3.1.1 Use appropriate terminology when referring to Primavera Software

It is **required** that all vendor documentation, when referring to all or any part of the Primavera solution, adheres to the naming conventions as prescribed by Primavera in the “Primavera Brand Guidelines” document.

3.1.2 Use correct contact information in documentation and help systems

It is **required** that vendor documentation and help files direct inquiries to the vendors’ internal support channels.

3.1.3 Use Primavera and Partner Logos in accordance with corporate standards

Refer to Exhibit B in the Technology Partner contract.

3.1.4 Use only Primavera Integration API to write to Primavera databases

It is **required** that all integration with Primavera solutions use ONLY the Primavera Integration API. This assures that Primavera application security and licensing are not bypassed while maintaining data integrity.