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MINUTES
SENATE AGRICULTURAL AFFAIRS COMMITTEE

DATE: Thursday, January 14, 2016

TIME:

PLACE: Room WW53

MEMBERS PRESENT: Chairman Rice, Vice Chairman Bayer, Senators Patrick, Souza, Lee, Den Hartog, Ward-Engelking, and Burgoyne

ABSENT/ EXCUSED: Senators Harris

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Senator Rice
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Carol Deis
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**PTC[®] Arbortext[®] Publishing
Engine[™] Release Notes**

PTC Arbortext 6.1 M040

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About this Guide

The *PTC Arbortext Publishing Engine Release Notes* contain release information for the 6.1 M040 version of PTC Arbortext Publishing Engine. If you are upgrading from a release prior to PTC Arbortext Publishing Engine 6.1, you can obtain the release notes of previous versions by visiting the Reference Documents area of www.ptc.com/support.

Changes to documentation and the software itself may occur after the publication of these release notes. For documentation updates, software functionality changes, alternative techniques, or other issues, review the available Solutions using the Update Advisor also available at www.ptc.com/support.

Prerequisite Knowledge

This documentation is intended for PTC Arbortext Publishing Engine administrators and developers. To install, set up, and configure PTC Arbortext Publishing Engine, you should have substantial experience as a web server administrator. This document assumes advanced skill using servlet containers, web servers, and HTTP protocols. Developers need to know the supported programming languages. To understand the information in these Release Notes, you should be familiar with the PTC Arbortext Publishing Engine implementation at your site and with standard system administration tasks.

Technical Support

Contact PTC Technical Support using the PTC website, email, phone, or fax if you encounter problems using your product or the product documentation.

Use the Contact Support links on the PTC website at:

<http://www.ptc.com/support/>

The PTC website also provides a search facility for technical documentation of particular interest. To access this search facility, use the URL above and select Search Our Knowledge.

You must have a Service Contract Number (SCN) before you can receive technical support. If you do not have an SCN, contact PTC Maintenance Department using the contact instructions found in your Customer Support Guide.

Documentation for PTC Products

You can access PTC product documentation using the following resources:

- Online Help

Click **Help** from the user interface for online help available for the product.

- Reference Documents

Individual product manuals are available from the Reference Documents link of the PTC website at the following URL:

<http://www.ptc.com/support/>

- Help Center

Help Centers for the most recent product releases are available from the PTC website at the URL given below. Select the Support Center for the relevant products to access the Help Centers link.

<http://www.ptc.com/support/>

You must have a Service Contract Number (SCN) before you can access the Reference Documents or Help Centers links. If you do not have an SCN, contact PTC Maintenance Department using the contact instructions found in your Customer Support Guide.

Global Services

PTC Global Services delivers the highest quality, most efficient and most comprehensive deployments of the PTC Product Development System including PTC Creo, PTC Windchill, PTC Arbortext, and PTC Mathcad. PTC's Implementation and Expansion solutions integrate the process consulting, technology implementation, education and value management activities customers need to be successful. Customers are led through Solution Design, Solution Development and Solution Deployment phases with the continuous driving objective of maximizing value from their investment.

Contact your PTC sales representative for more information on Global Services.

Comments

PTC welcomes your suggestions and comments on our documentation. You can submit your feedback to the following email address:

arbortext-documentation@ptc.com

Please include the following information in your email:

- Name
- Company
- Product
- Product Release
- Document or Online Help Topic Title
- Level of Expertise in the Product (Beginning, Intermediate, Advanced)
- Comments (including page numbers where applicable)

Documentation Conventions

This guide uses the following notational conventions:

- **Bold text** represents exact text that appears in the program's user interface. This includes items such as button text, menu selections, and dialog box elements. For example,
Click **OK** to begin the operation.
- A right arrow represents successive menu selections. For example,
Choose **File ▶ Print** to print the document.
- Monospaced text represents code, command names, file paths, or other text that you would type exactly as described. For example,
At the command line, type `version` to display version information.
- *Italicized monospaced text* represents variable text that you would type. For example,
`installation-dir\custom\scripts\`
- *Italicized text* represents a reference to other published material. For example,
If you are new to the product, refer to the *Getting Started Guide* for basic interface information.



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Release Requirements and Support

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System and Software Requirements for PTC Arbortext Publishing Engine

System Requirements

PTC Arbortext Publishing Engine has the following basic requirements:

- For 32-bit installations, you need approximately 1.74 GB of disk space
- For 64-bit installations, you need approximately 1.82 GB of disk space

Minimum requirements for the operating system and web server application where you will install PTC Arbortext Publishing Engine apply, as it runs within a servlet container or web application server on these systems. However, your site's implementation will likely require more than the minimum requirements.

Considerations based on the site's production environment have an impact on optimizing your system, including additional disk space, memory, number of server CPU processors, amount of RAM, throughput and output, number of requests, number and size of documents, number and size of graphics, and other network traffic.

This PTC Arbortext Publishing Engine release is compatible with clients running PTC Arbortext Editor release 6.0 F000 and later. Some PTC Arbortext Editor exceptions or limitations may apply regarding backward compatibility.

Platform Support

For a complete list of supported platforms, including post-release updates, refer to www.ptc.com/partners/hardware/current/support.htm. PTC only provides product support for Arbortext Publishing Engine used on hardware or operating systems described here.

See these sections:

- *Product Platforms*
- *Arbortext Publishing Engine Web Server and Servlet Container Compatibility*

Please take these points in consideration when configuring your environment:

- Tomcat Support

You can implement the Arbortext Publishing Engine with Tomcat alone.

Tomcat has the ability to handle HTTP requests sent directly to it. IIS is not required by the Arbortext Publishing Engine when using Tomcat.

- IBM WebSphere Support

IBM WebSphere Application Server 8.5 includes an unsupported version of Java (version 1.6, also called 6.0). For Java 1.7 (or 7.0) support, you will need to download and install IBM WebSphere SDK Java Technology Edition Version 7.0 from the IBM WebSphere Application Server web site.

We tested Arbortext Publishing Engine using IBM WebSphere Application Server running with the IBM HTTP Server. The IBM WebSphere Application Server supports other web servers, and it's likely the Arbortext Publishing Engine will work with them. However, only the IBM HTTP Server was tested and certified.

- **SOAP Support**

SOAP support is implemented using the Apache Axis2 software. WSDL supports Axis2. See the SOAP support instructions for your servlet or web server application.

Browser Support

Browser support is listed in the software compatibility matrix for this release. Refer to www.ptc.com/partners/hardware/current/support.htm.

See the section *Browser Platform Compatibility for PTC Arbortext products*.

The web browser support applies to the web clients of Arbortext Publishing Engine and to launch the Arbortext Publishing Engine administrative web page, using a URL like the following:

`http://server:port/e3/`

Internet Protocol Version 6 Support

Arbortext Publishing Engine supports Internet Protocol Version 6 (IPv6).

Note

If PTC Arbortext Editor fails to connect to Arbortext Publishing Engine, it's possible that PTC Arbortext Editor is running on a different type of network than Arbortext Publishing Engine. Both PTC Arbortext Editor and Arbortext Publishing Engine support IPv4 and IPv6, but they must both be running on the same type of network to avoid an error. Check with your system administrator to resolve networking issues.

Server Considerations

PTC Arbortext Publishing Engine should be installed on its own, separate physical server. For example, it is not recommended to install Arbortext Publishing Engine on the same server where Windchill is installed. Installing Arbortext Publishing Engine on its own server allows you to configure the same number of Arbortext PE sub-processes as you have physical CPU processors to handle simultaneous requests. Once configured in this manner, Arbortext Publishing Engine relies on those CPU processors and will keep them busy fulfilling requests.

If you must install Arbortext Publishing Engine in a shared environment, configure the number of Arbortext PE sub-processes to a number less than the total number of CPU processors so that another application can be somewhat responsive. You may want to implement CPU affinity; if so, see your server documentation for information on CPU affinity and how to configure it. Also, be sure to allocate enough memory to allow Arbortext Publishing Engine to process large documents.

Before deciding on how to install Arbortext Publishing Engine, carefully evaluate your expected processing needs, including network traffic, throughput performance, and the size and quantity of documents and graphics.

Virtual Environments

PTC does not explicitly test or certify the use of PTC Arbortext software in virtual environments such as VMWare, Xen or Microsoft Virtual PC. Customers may use such environments for their PTC Arbortext deployments, but the guest operating system must be supported by PTC Arbortext and the PTC Arbortext software must be correctly licensed. In these cases, PTC will provide technical support for PTC Arbortext software in a virtualized environment but cannot provide support or consultation on the configuration of the virtual environment or on issues that are believed to be caused by the virtual environment. PTC uses the following guidelines to determine whether an issue involving a virtual environment is supported:

- For issues directly related to PTC Arbortext products, PTC Technical Support will provide support. If PTC suspects that the virtualization environment is the likely reason for the issue, you will be asked to contact the vendor of your virtualization product for assistance.
- For issues directly related to the virtual machine such as configuration and set up of the virtual environment, image size, performance, device emulation, or network emulation, PTC cannot provide technical support. Contact the vendor of your virtualization product for assistance.

Support for PTC Arbortext Editor Clients

This release of Arbortext Publishing Engine is compatible with PTC Arbortext Editor release 6.0 F000 and later, up to the concurrent version of Arbortext Publishing Engine. However, there may be PTC Arbortext Editor exceptions or limitations regarding backward compatibility. Be sure to check the *PTC Arbortext Publishing Engine Release Notes* for information.

Each PTC Arbortext Editor client must be configured to use Arbortext Publishing Engine for publishing using one of the following methods:

- From **Tools ► Preferences**, choose **Publishing Engine**.

-
1. **Use Publishing Engine** sends publishing requests to the Arbortext PE server specified by a URL.
 2. **URL** — specifies the URL to locate the Arbortext PE server using the form.

```
http://server:port/e3/servlet/e3
```

- From **Tools** ► **Preferences**, choose **Advanced Preferences**.
 1. Set `peservices = on` in **Advanced Preferences**
 2. Set `peserverurl = http://server:port/e3/servlet/e3`

For more information on PTC Arbortext Editor, consult *PTC Arbortext Editor*, *PTC Arbortext Styler*, and *PTC Arbortext Architect Release Notes* and the PTC Arbortext Editor documentation in PTC Arbortext Help Center.

Perl Version for PTC Arbortext Advanced Print Publisher

PTC Arbortext Publishing Engine includes a packaged installation of the PTC Arbortext Advanced Print Publisher print engine and associated support files, including the Perl release needed to support the APP print engine functionality. This installation does not require additional licensing. Perl 5.8 is included and provides `perl58.dll` in the directory `PE_HOME\app\perl\bin`.

If you want to specify the location of an alternative Perl installation, use the environment variable `APTAPPPERL` to set the path to the root folder of your Perl installation. This directory must have a `\bin` subdirectory containing the Perl `perl58.dll` library file.

Content Management Support

The Arbortext Publishing Engine supports the following platforms for the supported content management systems.

PTC Server connection

The PTC Server connection supports Internet Protocol Version 6 (IPv6).

Refer to www.ptc.com/partners/hardware/current/support.htm for a list of supported systems on which the PTC Server connection can connect to the PTC content management systems.

See these sections:

- *Compatibility with Content Management Systems*
- *Connection to PTC Arbortext Content Manager compatibility*

-
- *Connection to Windchill PDMLink compatibility*
 - *Connection to Windchill Project Link compatibility*

PTC Arbortext Adapter to Documentum/WDK

The PTC Arbortext Adapter to Documentum/WDK runs on the Documentum server and is supported on all platforms that support Documentum Content Server. The PTC Arbortext Adapter to Documentum/WDK supports Internet Protocol Version 6 (IPv6). Note that IPv6 support requires Documentum Webtop version 6.5 or later.

The PTC Arbortext Adapter to Documentum/WDK is available on the systems listed in the software compatibility matrix for this release. Refer to www.ptc.com/partners/hardware/current/support.htm.

See the section *PTC Arbortext Adapter to Documentum/WDK compatibility*.

Repository requirements and the web browser support for PTC Arbortext Editor are also listed in the matrix.

We are not aware of any issues with using Federated or Replicated docbases with the PTC Arbortext Adapter to Documentum/WDK. However, the adapter has not been certified with Federated or Replicated docbases.

Producing PDF with Arbortext Publishing Engine

Arbortext Publishing Engine has the built-in capability to produce PDF output by default, using either the PTC Arbortext Advanced Print Publisher or the FOSI print engine (see *Print Engine Choices on the Arbortext PE server* for information). The PDF capability in both APP and FOSI produces PDF upon receiving a publishing request. Refer to the *PTC Arbortext Customizer's Guide* for information on using and customizing PDF features.

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The following section describes the enhancements in this release.

Alternate Transaction Archive

In this release, an Arbortext Publishing Engine administrator can configure an alternate location for a transaction archive. This alternate location is not available from the Arbortext Publishing Engine index page link to the **Transaction Archive**. An alternate transaction archive allows transactions with sensitive data to be stored in a location accessible only by permission.

Several new `e3config.xml` parameters support the new alternate transaction archive; each of the following are prefixed with `com.arbortext.e3.`:

- `alternateTransactionArchiveDirectory`
set to `alternateTransactionArchive` by default
- `transactionArchive.alternateLocation.testSet`
set to the new test set `archive-transaction-to-alternate-location-test` by default

To support alternate locations, there is a new test set and a new query parameter:

- `archive-transaction-to-alternate-location-test`
the new test set that looks for the new query parameter `alternate-transaction-archive`.
- `test-alternate-transaction-archive`
the new request selector to identify queries for an alternate transaction archive. It looks for the query parameter `alternate-transaction-archive`.
- `alternate-transaction-archive`
the new query parameter, which must be set to `yes` on the HTTP request if you want the transaction to be archived in the alternate location.

If you are sending the request to use an alternate transaction archive from WVS, the query parameter is set as part of the publishing rule:

- If you are using the Arbortext Publishing Engine worker to publish dynamic documents, set `archive-transaction-to-alternate-location-test=yes` in your publishing rule.
- If you are using the Service Information Manager (SIS) worker to publish service structures, set the following in your publishing rule:

```
<worker name="com.ptc.arbortext.pe.all/useRestrictedTransactionArchive">1</worker>
```

The value `1` means use the alternation transaction archive. You can specify `0` not to use it.

The standard and the alternate transaction archives function in the same manner, and transaction archive parameters apply to both types of transaction archives. The alternate transaction archive has no web page interface to view and retrieve

the transactions. Users wishing to access the alternate transaction archive will need permission to read the network share location or request information from a system administrator with permission.

In addition, the following Arbortext PE Application functions have new methods:

Application type	get method	set method
ACL	PEAppResponse::getAlternateArchiveFlag()	PEAppResponse::setAlternateArchiveFlag(newValue)
Java and JavaScript	boolean E3ApplicationResponse.getAlternateArchiveFlag()	boolean E3ApplicationResponse.setAlternateArchiveFlag(newValue)
VBScript	PEAppResponse.getAlternateArchiveFlag()	PEAppResponse.setAlternateArchiveFlag(newValue)

The ACL and VBScript boolean value is 1 to use the alternate transaction archive and 0 to use the standard transaction archive.

For more information on alternate transaction archive parameters, refer to *Configuring PTC Arbortext Publishing Engine*. For more information on Arbortext PE Applications, refer to *PTC Arbortext Publishing Engine Programmer's Guide*.

SPR Fixes in this Release

The list of fixes for issues identified by and with the help of PTC Arbortext users can be found in the Arbortext Reference Documents area of www.ptc.com/support. Fixes are categorized by product area and are ordered by Software Performance Report (SPR) number. Descriptions typically apply to the specific reported issue.

Search for *SPR Fixes Included with PTC Arbortext Editor and PTC Arbortext Publishing Engine* in the Release Notes category.

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