Perceptive DataTransfer

System Overview

Version: 6.2.x

perceptivesoftware

Written by: Product Documentation, R&D
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Introduction

This document provides information about the Perceptive DataTransfer system architecture and server and client requirements. See these topics for more information:

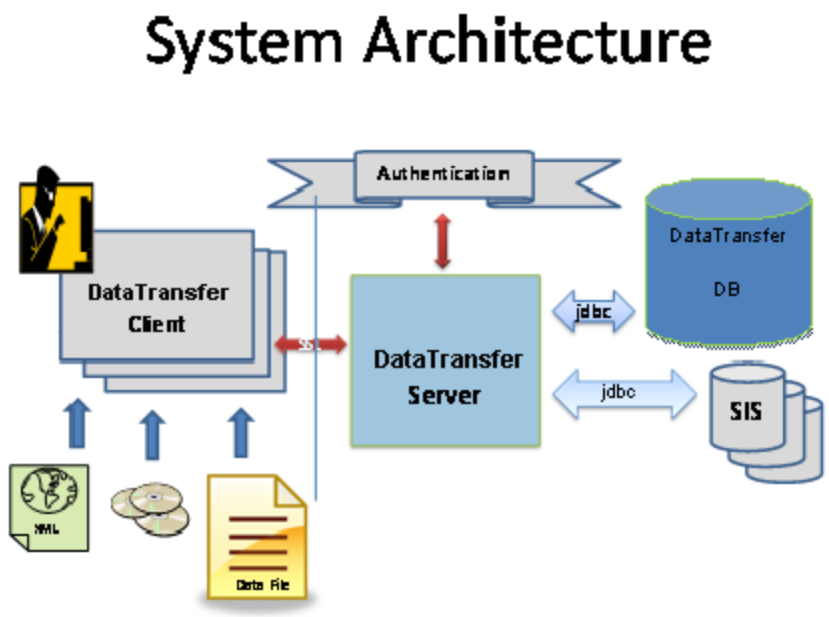
System Architecture

Perceptive DataTransfer comprises the server and client components.

The client is a combination of JavaScript (AJAX), Java applets, and HTML. It communicates, over a secure HTTP channel, to the backend server, which is a Java web application running in an Apache Tomcat container. Communication from the client to the server is protected with channel encryption and with a generic authentication layer; this layer supports a variety of pluggable authentication protocols and services. The security layer wraps all actions that the clients request from the sever.

The server communicates to its own database and to other enterprise databases through an abstraction layer.

Figure 1: Perceptive DataTransferSystem Architecture



Perceptive DataTransfer is installed on a server. Users access Perceptive DataTransfer through a browser; no software installation on client computers is necessary.

Server Requirements

Your server must meet the following minimum requirements so that you can install and administer Perceptive DataTransfer.

Table 1: Perceptive DataTransfer Server Minimum Requirements

Requirement Type	Requirement
Memory	Minimum 4 GB dedicated memory (8 GB recommended)
Processor	3 GHz 64-bit processor (minimum four total cores; eight total cores recommended)

Hardware and software requirements	The server runs on any platform that supports 64-bit Tomcat Apache 6.0 and 64-bit Java SDK 1.6, including the following:
	• Intel or IBM Power PC running Apple Mac OS X (Leopard) 10.5.2 or later
	• SPARC64-bit platforms (SPARC or Sun x64/ Intel EM64T) running Solaris 9 or later
	• Microsoft Windows 64-bit platforms:
	  ◦ Windows XP[1]
	  ◦ Windows Server 2003
	  ◦ Windows Vista[2]
	  ◦ Microsoft Windows 7[3]
	  ◦ Windows Sever 2008
	• Linux 64-bit platforms:
	  ◦ Novell SUSE Enterprise Linux Server 8, 9, or 10
	  ◦ SUSE Enterprise Linux Desktop
	  ◦ Red Hat Enterprise Linux 3.0, 4.0, or 5.0

Metadata storage memory	5 GB

Table 1: Perceptive DataTransfer Server Minimum Requirements (Continued)

Requirement Type	Requirement
Perceptive DataTransfer Host Databases	The following databases are supported: • Oracle Database 10g or 11g • Microsoft SQL Server 2005, or 2008 • MySQL 5 or later
SIS Databases	Any relational database with a JDBC driver (only Oracle, Microsoft SQL Server, MySQL, Informix, and DB2 have been tested).

Application server	Tomcat Apache 6.x.
	
	After you install the Tomcat server, you must increase the default memory values. You can specify the memory values by configuring a system-wide environment variable, such as JAVA_OPTS. Set the minimum memory to 512 MB, the maximum memory to 8192 MB, and permanent generation size to 256 MB. For example:
	
	`JAVA_OPTS="-Xms512m -Xmx8192m -XX:MaxPermSize=256m`
	
	If you are using a headless implementation on a Linux, Solaris, or UNIX system, add the following parameter to the JAVA_OPTS environment variable:
	
	`-Djava.awt.headless=true`

1.This version of Microsoft Windows has an inbound connection limit and cannot be used as a server in a PRODUCTION environment.
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Client Requirements

Client computers must meet the following minimum requirements so that users can use Perceptive DataTransfer.

Table 2: Perceptive DataTransferMinimum Requirements

Requirement Type	Minimum Requirement
Memory	512 MB RAM dedicated memory
Processor	2 GHz
Hardware and software requirements	Client • IBM PowerPC G3 running MAC OS X version 10.4 or later • Computer with Intel Pentium 1 GHz processor running Windows NT, Windows 2000, Windows XP, Windows Vista or Linux Monitor • XGA resolution 1024 x 768 or greater • A monitor with SXGA resolution 1280 x 1024 or WXGA resolution 1440 x 900 is recommended.
Browser requirements	• Microsoft Internet Explorer 8.0 with Service Pack 1 or later on supported Microsoft Windows platforms • Mozilla Firefox 5 or later on supported Windows, Macintosh, and Linux platforms; Firefox 10 or later is recommended • Apple Safari 4 or later on Intel or PowerPC platforms • Apple Safari 5 or later is recommended. • Google Chrome 7.0 or later • Google Chrome 11.0 or later is recommended. **Note** You must enable cookies and allow popups in your browser. Refer to your browser's documentation for more information.

Configuring Security Settings in Internet Explorer

When users are uploading files to Perceptive DataTransfer in Internet Explorer 8 or 9, Internet Explorer may display C:\fakepath instead of the actual path of the file. This is a security setting to prevent the system structure from being exposed when files are uploaded. To disable this setting, do the following.

1. In Internet Explorer, select **Tools > Internet Options**.

   The Internet Options dialog box appears.

2. Click the **Security** tab.

3. Click the **Custom Level...** button.

   The Security Settings dialog box appears.
4. Navigate to the Miscellaneous > Include local directory path when uploading files to a server option.
5. Click **Enable**.

   A dialog box appears, prompting you to confirm that you want to change the security settings.
6. Click **Yes** to confirm and to close the dialog box.
7. In the Internet Options dialog box, click **OK** to save your changes and close the dialog box.