

TimeControl® 6 Installation Requirements

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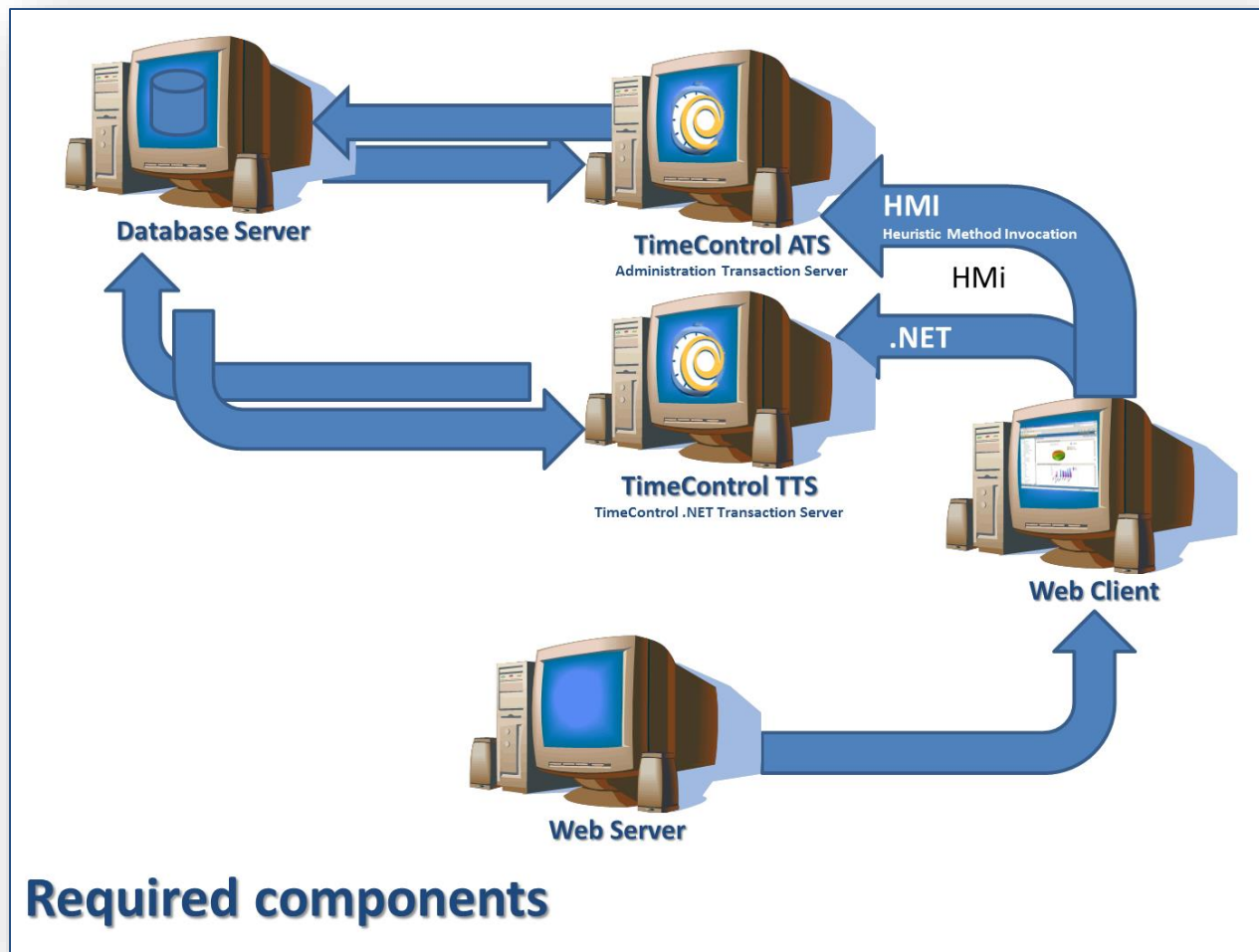
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Required Components

TimeControl is an “n-tier” application with a design that allows for the system to be infinitely scalable. TimeControl has key components that are critical to system operations. The key components include a Database Server, the TimeControl Transaction Server middleware, Web Server components and the web-based client. Each component has its own minimal requirements.*

In the most common installation, TimeControl’s TimeControl Transaction Server (TTS), the Administration Transaction Server (ATS) and the Web Client are installed on the same server and the database is installed on a pre-existing data server.



For more information on a wide variety of installation configurations, we recommend consulting the TimeControl Architecture white paper available at www.timecontrol.com/resources/whitepapers.

TimeControl Installation Requirements

The hardware, operating system and version requirements for each component of TimeControl are described below:

TimeControl TTS and ATS Middleware Servers

The TimeControl Transaction Server (TTS) and the Administration Transaction Server (ATS) are the two elements of the TimeControl middleware that communicate between the end-user's station and the database. The middleware elements include the .Net TimeControl Transaction Server (TTS), the TimeControl ATS and the TimeControl Scheduler which are installed as Services on the target machine.

Requirements

- Windows Server operating system capable of supporting .NET version 4.5+
- Minimum RAM should be 8GB. For implementations over 1,000 users, 16GB is recommended
- Quad core is recommended with a minimum speed of 2.5Ghz per core particularly for implementations of more than 1,000 users.
- Windows .NET 4.5 framework or higher
- TimeControl can be installed on a virtual environment such as VMWare or Hyper-V.

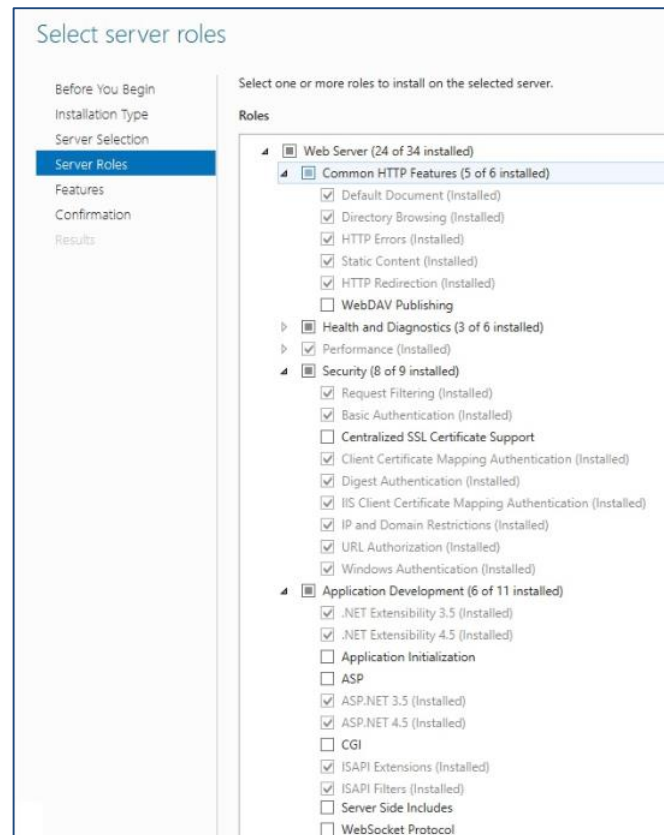
The typical load for the ATS and TTS combined is 2% - 20% of CPU cycles.

Web Server

A standard installation of TimeControl installs both the Middleware and Web components on the same server. In this situation, TimeControl requires the Web Server role (IIS) as well as the TCP Port Sharing Role. Additional information on roles is displayed in the image on the right.

Database Server

TimeControl works with one of several client/server databases, including Oracle, Sybase, MySQL and Microsoft's MS SQL Server. Since each database has its own requirements and several of these databases support a wide range of hardware, it is impossible to determine all the hardware and operating system configurations which TimeControl can support. The data- load of TimeControl is minimal. The Database Server must be accessible from the ATS, the TTS and Web Service servers.



Database Requirements

- Microsoft SQL Server 2005 Standard Version or higher
- Oracle 10g or higher
- Sybase 11 or higher
- MySQL 5.5 or higher

TimeControl Users

Administrators

For Administrators, the TimeControl 6 web interface requires Windows XP or later and Internet Explorer browser version 7 or higher. Both 32 bit and 64 bit versions of Windows are supported for the client stations. In some cases, some administrators may have to be able to install ActiveX controls within Internet Explorer to access older legacy functions.

End users

Multiple browsers and hardware are supported for end-user clients who will be entering and approving timesheets. Internet Explorer, Firefox, Mozilla (on Linux), Safari (on PC, Mac, iPad and iPhone) and Chrome are supported. Numerous other browsers may be supported.

TimeControl Mobile End-Users

TimeControl includes a mobile interface designed for Smartphones. Each TimeControl implementation includes this interface available by adding “/mobile” to the system’s URL (e.g. www.yourtimecontroldomain.com/mobile).

TimeControl Mobile has been tested with Blackberry, iPhone, Android and Windows Mobile 7 Windows Mobile 8 devices and their native browsers.

Combining Servers

When clients implement TimeControl, there is often a question about whether TimeControl’s installation can be shared with other applications. While every situation is different, here are some general guidelines.

- In an outward-facing TimeControl implementation, it is very unusual to install TimeControl on the same server as the middleware as this might expose the database server itself to attack.
- In an implementation where TimeControl is being integrated with SharePoint, it is common to install TimeControl on the same server as SharePoint.
- In an implementation where TimeControl is being integrated into Project Server or both Project Server and SharePoint, it is common to install TimeControl on the server being used by Project Server.

In most circumstances, TimeControl’s middleware services can be implemented on servers being used for other purposes.

Should you have questions regarding a particular hardware configuration, please contact HMS Technical Support by email at support@hms.ca, or by phone at +1 514 695-8122.