

DTH Software, Inc

VoIP Billing module – Hardware Requirements

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Hardware Requirements

Billing Server - Basic Requirements

These basic items are required regardless of the number of transactions the system must support.

Operating System	Microsoft® Windows 2003/2008 Server – Web/Standard 64-bit
Database Engine	SQL Server 2008 Express/Web/Workgroup/Standard/Enterprise SQL Express is bundled with our system free of charge but it is limited to 1 processor and a 4GB database size.
Storage	10GB for OS/applications + 2GB per 1,000,000 CDR
Framework	.NET Framework 3.5 SP1

For security purposes, we recommend a separate Windows® web server to host the portals.

1,000 Transactions/Hour

These items are required to support up to 1,000 *Transactions* per hour.

Processor(s)	(1) Quad Core Xeon 2.0GHz+ or Quad Core AMD Opteron 2.0GHz+
RAM	4GB 667 MHz or better
Storage	10,000 or 15,000 RPM disk drive(s) in RAID1, 5 or 10. 10GB for OS/applications + 2GB per 1,000,000 CDR
Database Engine	SQL Server 2008 Express/Web/Workgroup or higher SQL Express is bundled with our system free of charge but it is limited to 1 processor and a 4GB database size.

10,000 Transactions/Hour

These items are required to support up to 10,000 *Transactions* per hour.

Processor(s)	(2) Quad Core Xeon 2.0GHz+ or Quad Core AMD Opteron 2.0GHz+
RAM	8-16GB 667 MHz or better
Storage	6+ 10,000 or 15,000 RPM disk drive(s) in RAID 5 or 10. SAN preferred. 10GB for OS/applications + 2GB per 1,000,000 CDR
Database Engine	SQL Server 2008 Web/Workgroup/Standard or higher

Web Portal Server Requirements

It is recommended, for security purposes, that the billing server and web portal servers are separate machines. Although it is technically feasible to have the billing and portals on the same server, it does introduce a security risk.

The ideal configuration would have the web portal server(s) in the DMZ with the billing server(s) on your secured LAN.

Each server below will service 200-500 concurrent users.

Operating System	Microsoft® Windows 2003/2008 Server – Web/Standard 64-bit
Processor(s)	1-2 Quad Core Xeon 2.0GHz+
RAM	4-8GB 667 MHz or better
Storage	(2) 10,000 or 15,000 RPM disk drive(s) in RAID1.

Definitions

CDR

Call Detail Record.

Transaction

A *transaction* is defined as the authentication, authorization and accounting (rating) of a single call.

DMZ

Demilitarized Zone. A less secure zone of your network where computers that broker external requests often reside.