

**MANUFACTURER'S SPECIFICATIONS FOR WATERFORD EARLY LEARNING SOFTWARE**

**Overview**

	<b>Server</b>	<b>Teacher Station</b>	<b>Client/ Student Station</b>	<b>Network Minimum</b>	<b>Serves</b>
<b>Peer-to-Peer 3.14.5</b> <i>(classroom or lab)</i>	NA	Content Database	Content	NA	Up to 30 stations
<b>Centralized School Manager 3.14.5</b>	Database	NA	Content	10 Mb	Up to 100 stations
<b>Media Server 3.15</b>	Content database	NA	Access Point	100 Mb*	Up to 35 stations per server
<b>Server 4.x</b>	Content database	NA	Access Point	100 Mb*	Up to 200 stations <i>(with multiple servers)</i>
<b>Operating Systems: Microsoft® Windows® 2000, XP Pro or Server 2003</b>					

\*If a customer does not meet the networking requirements of a 100 Mbps network, a server deployment could still be executed. The configuration would include networking cables connected directly from station(s) to a managed switch to the server as a self-contained network.

**Peer-to-Peer Model**  
*(Up to 30 stations)*  
3.14.5

	<b>Minimum</b>	<b>Recommended</b>
<b>Processor Speed</b>	Pentium® III 733 MHz	Pentium 4 2.4 GHz
<b>Memory</b>	256 MB RAM	512 MB RAM
<b>Hard Drive</b>	80 GB Available	120 GB Available
<b>Operating System</b>	Windows 2000® or XP Pro®	
<b>NIC</b>	One 100 Mbps	One 100 Mbps
<b>Audio</b>	SoundBlaster® or AC '97® compatible	
<b>Additional required software</b>	For lab models: Windows 2000 Server™ Microsoft SQL Server 2000™ Client access licenses (CALs) for additional software access	

## Centralized School Manager (CSM)

(Up to 100 client stations)

3.14.5

	Server	Client Station	
	Minimum	Minimum	Recommended
<b>Processor Speed</b>	Pentium 4 2 GHz	Pentium III 733 MHz	1.6 GHz
<b>Memory</b>	1 GB RAM	256 MB	512 MB
<b>Hard Drive</b>	120 GB	120 GB	120 GB
<b>Operating System</b>	Windows 2000 Server	Windows 2000 or XP Pro	Windows 2000 or XP Pro
<b>NIC</b>	One 100 Mbps	One 100 Mbps	One 100 Mbps
<b>CALs</b>	None required	2 per client station, one for SQL one for OS	2 per client station, one for SQL one for OS
<b>Audio</b>	None required if not using as a client station	SoundBlaster or AC '97 compatible	SoundBlaster or AC '97 compatible
<b>Additional required software</b>	Microsoft SQL Server 2000™	None required	None required

### Media Server 3.15.1

(Up to 35 client stations)

#### Classroom Model (up to 6 client stations)

	Server Station	Client Station
<b>Processor Speed</b>	Pentium 4 2.4 GHz	Pentium III 733 MHz
<b>Memory</b>	1 GB RAM	256 MB RAM
<b>Hard Drive</b>	120 GB SATA	1 GB available
<b>Operating System</b>	Windows 2000 or XP Pro	Windows 2000 or XP Pro
<b>NIC</b>	100 Mbps	One 100 Mbps
<b>Network</b>	Workgroup switch	
<b>Audio</b>	SoundBlaster or AC '97 compatible	SoundBlaster or AC '97 compatible

#### Lab and Distributed Models (up to 35 client stations per server)

	Server	Client Station
<b>Processor Speed</b>	*Two 2.4 GHz Intel Xeon	Pentium III 733 MHz
<b>Memory</b>	1 GB RAM	256 MB RAM
<b>Hard Drive</b>	Four 37 GB drives in RAID 5 Array	1 GB available
<b>Operating System</b>	Windows Server 2003	Windows 2000 Pro or XP Pro
<b>NIC</b>	Four 100 Mbps or One 1 Gbps	One 100 Mbps
<b>Network</b>	Managed switch	Maximum 5 clients per 100 Mb drop
<b>CALs</b>	None required	2 per client station, one for SQL one for OS
<b>Audio</b>	None required	SoundBlaster or AC '97

<b>Additional required software</b>	Microsoft SQL Server 2000	compatible None required
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\*Waterford is not designed to take advantage of multi-core processors. For this reason, two separate processors are required.

#### 4.x

*(Up to 200 client stations when running multiple servers)*

#### **Classroom Model** *(up to 6 client stations)*

	<b>Server Station</b>	<b>PC</b>	<b>Client Station</b>
			<b>*Mac®</b>
<b>Processor</b>	Pentium 4 2.4 GHz	Pentium III 800 MHz	1.25 GHz
<b>Memory</b>	2 GB	512 MB	512 MB
<b>Hard Drive</b>	120 GB SATA	1 GB available	1 GB available
<b>Operating System</b>	Windows 2000 or XP Pro	Windows 2000 or XP Pro	OS X.4® (Tiger)
<b>NIC</b>	One 100 Mbps	One 100 Mbps	One 100 Mbps
<b>Network</b>	Workgroup switch		
<b>Audio</b>	SoundBlaster or AC '97 compatible	SoundBlaster or AC '97 compatible	SoundBlaster or AC '97 compatible

\*Up to 5 Mac clients can run in a Classroom Model implementation. However, the server station must be a PC running Windows 2000 or XP Pro with Windows Services for Unix (NFS) installed. Windows Services for Unix is available as a free download from Microsoft.

#### **Lab and Distributed Model**

*(**Minimum** specifications; (35 client stations per server)*

	<b>Server</b>	<b>PC</b>	<b>Client Station</b>
			<b>Mac</b>
<b>Processor</b>	*Two 2.4 GHz Intel Xeon	Pentium III 800 MHz	1.25 GHz
<b>Memory</b>	2 GB	512 MB	512 MB
<b>Hard Drive</b>	Four 37 GB SCSI drives in RAID 5 Array	1 GB available	1 GB available
<b>Software</b>	Windows Server 2003 R2® Microsoft SQL Server 2000	Windows 2000 or XP Pro	OS X.4 (Tiger)
<b>NIC</b>	Four 100 Mbps or one 1 Gbps	One 100 Mbps	One 100 Mbps
<b>Network</b>	Managed switch	Workgroup switch	Maximum 5 clients per 100 Mbps drop
<b>CALs</b>	N/A	2 per client station, one for SQL one for OS	2 per client station, one for SQL one for OS
<b>RAID Card</b>	Dual channel SCSI RAID controller with 256 MB DDR RAM	None required	None required

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#### 4.x, cont.

## Lab and Distributed Model\*\* - Dell 2900/2950 or like configuration

(**Recommended** specifications; 70 client stations per server)

	Server	PC	Client Station Mac
<b>Processor</b>	*Two 2.4 GHz Intel Xeon	Pentium III 800 MHz	1.25 GHz
<b>Memory</b>	2 GB	512 MB	512 MB
<b>Hard Drive</b>	Four 73 GB SCSI drives in RAID 10 Array	1 GB available	1 GB available
<b>Software</b>	Windows Server 2003 R2 Microsoft SQL Server 2000	Windows 2000 or XP Pro	OS X.4 (Tiger)
<b>NIC</b>	Four 100 Mbps or one 1 Gbps	One 100 Mbps	One 100 Mbps
<b>Network</b>	Managed switch	Workgroup switch	Maximum 5 clients per 100 Mbps drop
<b>CALs</b>	N/A	2 per client station, one for SQL one for OS	2 per client station, one for SQL one for OS
<b>RAID Card</b>	Dual channel SCSI RAID controller with 256 MB DDR RAM	None required	None required

\*Waterford is not designed to take advantage of multi-core processors. For this reason, two separate processors are required.

\*\*Can also be deployed in a MAN environment.

### Peripheral Recommendations for All Versions

We recommend quality peripherals to maximize the Waterford experience.

Deployment Model	Order one per:	Includes:
<b>All</b>	<b>Station</b>	1 Telex® headset body DS-EV with volume control & boom microphone 2 Telex® headset wire-model DS-EV 20.140" stereo 2 mousepads 1 keyboard cover 1 RJ-45 network cable 2 surge protectors <i>for networked set of 3 stations</i>
<b>All</b>	<b>Classroom</b>	1 camera 1 set of speakers 1 Y jack