



## SERVER HARDWARE REQUIREMENTS

### Minimum Requirements

Hardware	Minimal specification	
CPU Intel	Dual-Core Intel® Xeon® Processor 5130 (2.0 GHz)	<i>see page 2 for more processors</i>
CPU AMD	AMD Opteron™ Processor 2354 (2.2 GHz)	
Internal memory	2 GB	
PCI slots available	PCI or PCI-Express	<i>see page 2 for minimal free slots</i>
Hard disk	160 GB	<i>see table recording hours below</i>
Network Interface Card	Ethernet TCP/IP	
Software		
Operating system	Windows Server 2008 SE 32bit/x64 R2	<i>More than 2GB RAM Requires Windows Standard Edition</i>
Database *	MySQL Pro	
Optional		
DVD RAM drives *	2	<i>for archiving</i>
Iomega REV Drives *	2	<i>for archiving</i>
Additional Network Card	Ethernet TCP/IP	<i>for VoIP recording</i>

\*) these items can be ordered, see latest Pricelist for part number and price.

### COMPRESSION

Indication of hours of recording storage per media type:

Compression Type	70 Gb	4.7 Gb	180 Gb	250 Gb	1 TB	
	REV	DVD	HDD	HDD	HDD	
Uncompressed 64Kb/s	2.290	154	5.906	8.203	32.812	<i>no compression</i>
ADPCM 32Kb/s	4.580	308	11.813	16.406	65.624	
ADPCM 24Kb/s	6.100	411	15.750	21.875	87.500	
GSM 13Kb/s	11.000	748	28.636	39.773	159.092	
Fast GSM 13Kb/s	11.000	748	28.636	39.773	159.092	<i>standard compression</i>
True Speech 8.5Kb/s	17.300	1.161	44.471	61.765	247.060	
Speex 8Kb/s	18.300	1.234	47.250	65.625	262.500	
Speex 5.95Kb/s	24.700	1.659	63.529	88.235	352.940	
Speex 3.95Kb/s	37.200	2.499	95.696	132.911	531.644	
Speex 2.15Kb/s	68.300	4.591	17.5814	244.186	976.744	<i>highest compression</i>

These are examples of recommended HP Chassis:

HP Proliant DL370 G6 (5U)	HP Proliant DL380 G6 (2U)	HP Proliant DL360 G6 (1U)
<ul style="list-style-type: none"> <li>HP DL370 G6 E5430 Base EU Svr</li> <li>Quad Core Xeon 2.53 Ghz</li> <li>6 GB (3 x 2 GB) PC3-10600R (DDR3-1333)</li> <li>9 Full Size PCI-E Slots</li> <li>Smart Array P410i/256MB Controller (RAID 0/1/1+0/5/5+0)</li> <li>Quad Port Multifunction Gigabit Server Adapter</li> <li>8 SFF SAS/SATA HDD Bays</li> <li>4 U Rack Form Factor"</li> </ul>	<ul style="list-style-type: none"> <li>HP DL380G6 E5504 Quad Core 2.00 GHZ</li> <li>Intel® Xeon® QC Processor E5504 (2.00 GHz)</li> <li>4 GB (2 x 2 GB) PC3-10600R</li> <li>1 Full Size PCI-E Slots, 2 Half Size PCI-E Slots (with Riser: 1 additional Full-Size PCI-E slot)</li> <li>Smart Array P410i/Zero (Raid 1 Only)</li> <li>2 X Dual GigaBit NIC,</li> <li>FAN (4) (N+1 redundancy standard)</li> <li>8 SFF SAS/SATA HDD Bays</li> <li>2 U Rack Form Factor</li> </ul>	<ul style="list-style-type: none"> <li>HP DL360G6 E5504 Quad Core 2.00 GHz</li> <li>Intel® Xeon® QC Processor E5504 (2.00 GHz)</li> <li>4 GB (2 x 2 GB) PC3-10600R (DDR3-1333)</li> <li>1 Full Size PCI-E Slot</li> <li>Smart Array P410i (No MEM) Controller ((RAID 0,1,1+0)</li> <li>Dual Port Multifunction Gigabit Server Adapter</li> <li>FAN redundancy standard</li> <li>4 SFF SAS/SATA HDD Bays</li> <li>1 U Rack Form Factor"</li> </ul>

# PROCESSOR REQUIREMENTS

These are the max. channel capacities per processor type using compression and codec's.



## Stand Alone Server (1 Server Chassis)

- Dual Xeon, 3.4 GHz, 2 GB RAM

Core & Satellite	Compression/channels	Analogue	Digital	Trunk	G.711	G.729A
	Uncompressed	288	288	128	240	168
	ADPCM32	288	288	128	240	168
	(Fast) GSM	288	288	128	240	168
	True Speech	96	96	80	112	80
Core, Satellite & CTI	Compression/channels			Trunk	G.711	G.729A
	Uncompressed			60	120	84
	ADPCM32			60	120	84
	(Fast) GSM			60	120	84
	True Speech			48	64	48

## Stand Alone Server (1 Server Chassis)

- Quad Core Xeon (2.0 GHz), 2.0 GHz, 2 GB RAM

- Opteron (2.4 GHz), 2 GB RAM

Core & Satellite	Compression/channels	Analogue	Digital	Trunk	G.711	G.729A
	Uncompressed	240	240	200	240	200
	ADPCM32	240	240	200	240	200
	(Fast) GSM	240	240	200	240	200
	True Speech	240	240	168	200	168
Core, Satellite & CTI	Compression/channels			Trunk	G.711	G.729A
	Uncompressed			128	168	128
	ADPCM32			128	168	128
	(Fast) GSM			128	168	128
	True Speech			80	112	80

## Dedicated Server

- Quad Core Xeon (2.0 GHz), 2.0 GHz, 2 GB RAM

- Opteron (2.4 GHz), 2 GB RAM

Satellite	Compression/channels	Analogue	Digital	Trunk	G.711	G.729A
	Uncompressed	240	240	240	240	240
	ADPCM32	240	240	240	240	240
	(Fast) GSM	240	240	240	240	240
	True Speech	240	240	168	190	168

## Dedicated Server (Dual Processor)

- 2 X Quad Core Xeon (2.0 GHz), 2.0 GHz, 4 GB RAM

- 2 X Opteron (2.4 GHz), 4 GB RAM

- Microsoft Windows 2003 Standard Edition

Satellite	Compression/channels	Analogue	Digital	Trunk	G.711	G.729A
	Uncompressed	480	480	480	480	480
	ADPCM32	480	480	480	480	480
	(Fast) GSM	480	480	480	480	480
	True Speech	480	480	240	380	240

Note: for > 240 VoIP Channels 2 PCI base boards are required

## CTI Server

Quad Core Xeon (2.0 GHz)

Opteron (2.4 GHz)

2 GB RAM

## Per System

1 Server

## Cisco Selective Gateway Recording

Quad Core Xeon (2.0 GHz)

Opteron (2.4 GHz)

2 GB RAM

Solution	Max. Monitoring ch.	Max. Recording ch.
Dedicated SCCP	2000 (per server)	1500 (per system)
Core & SCCP	800	240
Stand Alone	800	200

For Digital, Analogue or Trunk recording, several PCI or PCI-Express cards can be combined in one Server.