



# VS Century Server Systems

## *Full Featured Century Upgrades for Traditional VS Systems*

Wang's VS **Century Server** product family provides Year 2000 VS Hardware, Operating Environment, plus valuable transition services. These packages have been designed to meet the specific needs of VS installations currently using traditional CPU hardware models that lack internal hardware components needed to run the Year 2000 Operating Environment. Wang's Century Servers are also available for purchase as complete new systems.

### Designed and built with Value in Mind

The VS **Century Server** systems are built around a common hardware core. Because the owners of traditional VS systems are particularly value conscious, these systems may be built from a combination of new and factory remanufactured components. Where remanufactured components are used, they meet all Wang standards for comparable new parts. The use of selected remanufactured components allows Wang to keep our costs down without compromising quality.

### Multiple power levels to meet your needs

There are four standard **Century Server** offerings:

The **Century Server/6110** is based upon a Wang designed VS 6110 CPU with 4MB of Main memory. This processor is an ideal choice to replace VS 5, VS 15, VS 25, VS 45 and VS 80 processors. It provides roughly four times the CPU processing power and comes standard with 2 to 8 times the maximum memory of these older systems. Memory is expandable to a maximum of 32MB.

The **Century Server/6120** is based on the VS 6120 CPU with 16MB of main memory and is an ideal choice to replace most VS 6, VS 65 and VS 75 processors. It provides 60% to 70% more CPU power and comes standard with 2 to 8 times the maximum memory of these older systems. Memory is expandable to 32MB.

The **Century Server/6230** and **Century Server/6230T** are based on the VS 6230 CPU with 32MB of high performance error correcting memory, double the maximum on VS 100 systems. Memory can be expanded to a maximum of 128MB. The 6230 processor, the workhorse of Wang's entry level product line, is an ideal replacement for VS 85, VS 90 and VS 100 processors. It provides nearly three times the processing power of these machines. The 6230T offering includes Wang's turbo

software option which provides nearly a five fold increase in CPU performance.<sup>1</sup>

### Common VS Server Cabinets

All **Century Server** systems are packaged in a system cabinet that provides ten board slots and 8 drive bays. The CPU and RCU use two board slots, leaving eight free for system options. The standard configuration uses four drive bays leaving four free for system expansion. These servers also support external SCSI devices. The standard configuration includes:

**System Cabinet:** The cabinet is based upon the VS 6000 system cabinet with a number of enhancements to improve cooling airflow. This is the first redesign of this popular cabinet since its introduction.

**Resource Control Unit (RCU)** - The RCU is a multi-function controller which serves as a System IPL controller and also provides four Asynchronous Workstation/printer ports, the floppy drive controller and an on-board SCSI controller. Century Servers are configured with RCU boards at the current manufacturing release level.

**System Disk Drives** - Century Servers are equipped with two new 523MB high performance SCSI Disk Drives. The VS Operating System and the other software components of the VS/CSP are preloaded on the system drive. The customer may add additional drives to the RCU SCSI bus and may also add additional SCSI controllers to the system.

**High Capacity Quarter Inch Cartridge Tape Drive** - Century Servers are factory equipped with a brand new 2.5GB cartridge drive, which provides 5GB of storage with built in hardware compression. This drive is media compatible with the 150MB drive, allowing it to read and write in that common format. The 150MB tape drive, that was traditional in VS 5000 and VS 6000 systems, is no longer manufactured. *The High Capacity Tape Drive provides sufficient capacity to perform unattended system backups for most VS 6000 servers.*

**System Floppy** - Century Server models are equipped with a 1.2MB 5.25" Floppy Disk Drive for media compatibility with other VS systems

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<sup>1</sup> To obtain a 6230 Turbo model, you must order a 6230 model and an optional turbo upgrade.

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## Century System Software

All VS **Century Server** systems are equipped with Wang's new Century VS Operating Environment, The VS Century Software Product (VS/CSP). The CSP includes an operating system plus a comprehensive set of system tools and server software.

**VS Operating System Release 7.53** - This release is Wang's first fully featured Century operating system. It provides all the core features and functionality needed to support Year 2000 applications. OS 7.53 also supports all of the current generation of VS peripheral devices including the new High Performance Storage Subsystem, Mirrored (RAID-1) Disk Drives, 9GB disk drives and a new removable 2.3GB disk.

These new peripheral products are not supported on traditional VS platforms.

**256 Workstation License and Key** - VS **Century Server** systems are shipped with a license for 256 workstation support. This license includes the necessary license enabling key<sup>2</sup> and the license security file. The VS/CSP license is protected and locked to a specific CPU. The customer must provide Wang with the data needed to generate the license file.

**VS System Activity Monitor (SAM)** is Wang's standard VS performance measurement tool. With SAM you can keep your new VS system operating at peak performance and gather the data needed to provide optimal tuning.

**VS Site Manager** is a Wang developed administration and inventory tracking tool. With Site Manager you can keep control of your hardware resources by tracking exactly where every peripheral component is installed. Site Manager also reports on current installed release levels for Wang and many common third party applications. Site Manager can save system administrators hundreds of hours a year in inventory control and release tracking tasks.

**Intelligent Workstation Server (IWSCORE)** is the standard VS server product. It is accessible from both locally connected and VS/LAN Connection attached Personal Computers. IWSCORE provides the desktop client with entree into the VS. It functions as a file and print server allowing PC users to share data, and allows system administrators to ensure that valuable corporate data is backed up on a regular basis. IWSCORE also allows optional desktop applications to gain access to all

data resident on the VS. Packaged client applications allow VS data files and the output of PACE queries to be translated efficiently to and from common PC data formats. A set of optional IWS tools allow you to construct desktop applications that can read and write VS data files at the record level with full access to all VS shared file features. This capability can be used to build front end client applications on the desktop, taking advantage of the power of Visual Basic. The VS functions as an application server in this context, allowing you to use the powerful batch processing capabilities to meet your overnight processing requirements.

IWSCORE can service client PCs connected directly with Wang WLOC boards or network attached through Wang's VS/LAN Connection product. LAN connected clients can exist anywhere on your environment, and can even dial into your VS through a properly configured Microsoft NT Server. Network connected clients using LOGON services do not require IWSCORE and use the exact same CPU resources to do a task as are used on a locally connected workstation.

## Transitional OS Release Option

Customers migrating from a traditional VS system may have a need to continue to use their current OS release while they verify the year 2000 status of their applications. The VS/CSP license permits such use. You should communicate this requirement to your sales representative who will arrange to provide you with a copy of the needed VSOS baseline.

## Standard Services

VS **Century Server** packages, ordered as systems or as replacement upgrades for traditional VS systems, and delivered and installed in the United States, include the standard services described below. Service content may vary in locations outside the United States.

**Hardware Installation** of the Century Server CPU is standard and is provided in the product price. Installation services will also include other new Wang hardware ordered on the same customer order and shipped with the CPU. Wang will also install any Wang Certified components shipped with the new CPU. Surcharges will be applied for installations scheduled outside Wang's normal weekday service hours, or at locations more than 50 miles from a Wang service facility.

**Software Installation** of the VS CSP package is provided at the factory and completed at the customer location. Any other Wang installable software on the same order as the Century Server will be installed at the customer site. Installation services do not include installation of third party software, even if that software is purchased through or from Wang.

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<sup>2</sup> The enabling key is the property of Wang and is provided to the customer in order to permit use of the VS OS. It may not be sold, given or transferred to any other party. If the VS server is removed from service, sold or if the license is otherwise canceled this key must be surrendered to Wang.

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**Site Preparation** is the responsibility of the customer. This includes the installation of power, UPS systems, communications lines, modems and any needed environmental controls. Wang's Customer engineer will provide needed power and environmental information upon request.

## Services related to Replacement Upgrades

When the Century Server is purchased as an upgrade replacement for a VS 5 to VS 100 system the additional services described below are included in the price of the product. These services are available only when the traditional VS that is being retired is surrendered to Wang.

**Transfer of Components and peripherals to the new server** is provided during the installation. The customer and sales representative must clearly indicate any internal components or rear panels that are to be moved to a new cabinet, and must insure that the cable concentrators or disk cabinets are present at the installation site.

**De-installation and removal of the old VS System** is included in the purchase price, provided that the de-installation and preparation for transit is done during the install visit. The customer may instead elect to keep the traditional VS in service for up to 5 business days while they test and then transition their data to the new Server. If the customer makes this choice then they will be locally billed for the time required to de-install the old system and prepare it for transit.

As a service to the customer, Wang will also deinstall and remove any other VS equipment that is to be retired. The CPU and any other items to be removed must be indicated on the customer order.

Wang will pay cartage costs for the removal of the old system.

**Application License Transfers.** Wang will relicense all Wang application software which is properly licensed on the system being retired to the replacement system. Each licensed product must be referenced on the customer order. This service applies only to Wang products. The customer must make their own arrangements for non-Wang software products, even if the software was purchased through or from Wang.

This service provides licensing reconciliation only. It does not include shipment of new software or documentation. The customer may backup the software on their current system and restore it on the new system, or may reinstall from their current media. If a new release of a product is required a per-incident update must be ordered.

## Customer Responsibilities

The customer is responsible for backing up the software and data on their current system and restoring it on the replacement system. Wang can provide this service, on a billable basis. Prior arrangement is necessary.

Careful planning is necessary to accommodate this transition. If you use third party software and or hardware to do backups you must make any necessary arrangements to support the hardware and software on the VS 6000 system.

Wang recommends that a COPY with reorganize be performed on all files when they are transferred. This will insure that all data structures are valid at the time you transition to the new system.

If backup hardware or software is going to change as a result of the transition, the customer should make plans to recover any archival data stored in a format unique to the current backup software and/or hardware.

If the number and/or names of disk volumes on the replacement system differ from those on the system being retired, the customer may need to change procedures and or programs.

The customer must provide written instructions for the relocation of internal components or rear panels from the old system to the server.

## Century Server Options

The VS Century Server systems are configured as VS 6100 or 6230 models in the VS Operating System and thus are subject to the same configuration constraints as the VS 6000 line.

A wide variety of optional controllers and peripherals are supported by the Century servers, including, but not necessarily limited to those in the table below:

### Supported I/O Coprocessors

50V67	Wang Serial IOC
50V97	Wang Serial IOC (P-Band & Fiberway support)
50V68E	Caching SCSI IOC
50V68	SCSI IOC (No longer manufactured)
50V14	Fiber-Optic RSF IOC (NEW)
50V24	WIIS Image Transfer Controller
50V25	WIIS Image SCAN Controller
50V56	802.3 & TCP/IP Controller
50V76	Telecommunications Controller
50V96	Multi-line Telecommunications Controller

The 50V98 SMD Disk IOC may be available from third parties, however SMD drive use on these systems is not recommended. Wang can no longer provide SMD cables with the appropriate connector. **Use of SMD disk controllers on these servers is not recommended.**

**Disk Storage:** Wang recommends use of the 2279V series 3.5" SCSI disk drives, 2287V series SCSI RAID-1 (Mirrored) drives and the Wang High Performance Storage Subsystem (HPSS) with these systems. Other older Wang drives may be used, but are not recommended. Wang SCSI accelerators are recommended for systems with heavy I/O demand. SMD Disks are not recommended as they are now well past their design life.

**Tape:** The full family of Wang SCSI tape devices including 4MM DAT, 150MB and 2.5GB Quarter Inch cartridge tape, 8MM, 9 Track Reel to Reel and 3480 are supported on these processors. Use of non-SCSI tape drives is not recommended. The VS 6000 line does not provide controller support for the older Telex or Pertec type tape drives.

*Wang will not warrant the performance or stability of systems using non-Wang SCSI disk or tape drives.*

**Workstations:** VS Century Servers support all models of Wang local serial and asynchronous workstations. The recommended workstation options are Personal Computers directly attached using the WLOC option board or network attached using Wang VS/LAN Connection. Workstations configured using LAN connection are viewed by the Century Server as locally attached devices and as such do not require added CPU resource overhead. With proper network configuration, the PC connected in this manner may be located anywhere on the network.

**Printers:** Most printers used on traditional VS systems can be moved to, and will be supported on the Century Server series. As a general rule, printers that are more than five years old should be considered as candidates for replacement with newer technology.

**Software:** A wide variety of system support software, core applications and communication software applica-

tions are available from Wang. Please discuss your requirements with your Sales representative.

### **Technical Specifications**

#### **System Unit**

Height	25.50 in	65 cm
Width	11.00 in	28 cm
Depth	20.50 in	52 cm
Weight	120 lb.	54kg

**Power Requirement** 4 amps at 180- to 264V  
8 amps at 90 to 132V  
Line Frequency 60Hz ± 3% or 50HZ ± 3%  
Dedicated branch circuit or feeder required.  
UPS recommended

**Heat Dissipation** 3,071 BTU/Hour

Power Connection: Detachable 6-ft power cord (16/3 AWG type SJT) with a Three Prong plug, isolated ground receptacle.

Controller/CPU slots

10 slots, 8 available in standard configurations

System Drive Bays

7 5.25" Half height SCSI bays, 5 hidden. Standard configuration has 4 available bays, (3 hidden).


#### **Temperature Range**

Operating Environment	60° to 90°F (15.5° to 32°C)
Storage Environment	0° to 120°F (-17° to 48.8°C)
Transit Environment	-40° to 140°F (-50° to 60°C)
Maximum Rate of Change	12°F/Hr (4°C/Hr)

#### **Humidity**

Operating Environment	20 to 80% non-condensing
Storage Environment	10% to 90%
Transit Environment	5% to 90%

**Altitude Range:** 0 to 10,000 feet (0 to 3048m)

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