Claims of 6,425,035	Maximum Strategy Inc.
	Gen5 S-SERIES XL System Guide Revision 1.01
	(6/11/1996) - "SG"
	Graphical User Interface for MAXSTRAT Gen5/Gent-S
	Servers User's Guide 1.1 (1/6/1997) - "GUI"
1 A stand so workey for	The GUI Guide ("GUI") expressly references the System Guide
1. A storage router for	("SG"), which is incorporated by reference:
providing virtual local storage on remote storage	"1.1.3 Related Reference Material
devices to devices,	1.1.5 Kelaleu Kelelellee Malellal
comprising:	S-Series System Manual" [GUI 2]
comprising.	
	The Gen5 includes router functionality:
	"2.7.3 Network Routing Table
	A network routing table allows the GEN-5 controller to handle
	Ethernet connections across gateways to hosts on the other
	networks." [SG 2-18]
	Gen5 is a storage router for providing virtual local storage,
	because it is a storage server:
	"Gen5 is the product name of the MAXSTRAT Generation 5
	Storage Servers." [GUI 2]
	The local disconstruction of the Construction of the Index of the
	The description of the Gen-5 XL architecture includes all the
5 ·	structural elements of Claim 1:
	See Figure 15 "GEN-5 XL Block Diagram" depicting CPU 1 (<i>supervisor unit</i>) with Memory (<i>buffer</i>), IFP 1 (<i>Fibre Channel</i>
	<i>controller</i>) coupled with High Speed Bus B (<i>Fibre Channel</i>
	<i>Transport Unit</i>), and DMC 1 (<i>SCSI bus controller</i>) coupled via an
2 1 2 7 2 7 2 7 2 7 2	internal buffer with lines (SCSI Transport Unit) leading to disk
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	drives. [SG 5-21]
a buffer providing	The Gen5 includes a <i>buffer providing memory work space for</i>
memory work space for	the storage router:
the storage router;	See Figure 15 "GEN-5 XL Block Diagram" depicting CPU 1
	(supervisor unit) with Memory (buffer). [SG 5-21]
	"0x40 0x01 DRAM Parity Error" [SG B-11]
	"0x800 BUF: error code
	0x1000 BUF: bit-mask; module parity error
	0x2000 BUF: bit-mask; DMC error disconnect
	0x00FF BUF: bit-mask; buffer state
	0x0005 BUF: bit-mask; buffer full
- C' - 4 - 11 - 1 1	0x0000 BUF: bit-mask; buffer empty" [SG B-14]
a first controller operable	The Gen5 includes a Host Interface Port (First controller)

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to connect to and interface with a first transport	operable to medium:	connect to and interface v	with a First transport	
medium;	"Supported Por	te		
meurum,	* *			
	1 to 8 Host Interface Ports SCSI-2 Logical Command Interface" [SG 1-4]			
	"The system software can be view as two major components. Each component is comprised of <i>its own dedicated embedded control</i> <i>processor(s).</i> Storage Server manages data control and transfer. Device Module Controller Processors control and handle stacked link list transfer tasks to/from the storage devices." [SG 1-5]			
	Fibre Chanr	les attachable Interface Po nel (<i>First controller</i>) or SC	-	
	"1.4 Controller Configuration			
	The GEN-5 XL Controller consists of:			
	• GEN-5 Rack Mountable Chassis (with fans)			
	Device Module Controller (DMC) cards			
	• Interface Port (IFP) cards" [SG 1-7]			
	"The GEN-5 XL controller supports the following configurations:			
	• Up to four IFP cards (multi-host configurations)" [SG 1-8]			
	"The GEN-5 controller includes several different types of ports,			
	each with varying capabilities:			
	High speed data transfer to/from disk storage			
	• Ethernet			
	System management			
	Com Ports System management			
	UPS support			
	Physical Port	Logical Port Number	Mode	
	IFP #1	0x01 & 0x05	Command/Data	
	IFP #2	0x02 & 0x06	Command/Data	
,	IFP #3	0x03 & 0x07	Command/Data	
,	IFP #4	0x04 & 0x08	Command/Data	
	Com #1	0x09 (Service Console)	Command-only	
	Com #2	0x0A (UPS)	Reserved	
	Ethernet [SG 1-12]	0x0E (Service Console)	Command-only"	
	[50 1-12]			
	"Each type of IF	P requires host cabling be	tween the IFP and the	
		or specific interface cablin		

	interface type." [SG 2-21]
	See Figure 5-2 depicting four IFP modules providing commands & responses to a Command Queue module. [SG 5-2]
a second controller operable to connect to and interface with a second transport medium; and	See Figure 5-2 depicting four IFP modules providing commands &
	"3.3.4 Disk Drive Cabling Disk Drive cables include one cable for each disk channel string (see Figure 13).

		r		
	INTERFACE	CABLE		
	SCSI-2 Fast/Wide/Differential	68-conductor"		
	[SG 3-8]			
	"Each module supports two inde	pendent SCSI-2 i	nterfaces or two	
	rows of devices within a facility.	-		
		. ,		
	"APPENDIX A Supported Disk	Drives		
	Currently supported disk drives:			
	data drive SCSI-2 wide/fas	t differential" [S	G A-11	
a supervisor unit coupled	The Gen5 has a supervisor ur			
to the first controller, the	"The system software can be view		omponents Each	
second controller and the	component is comprised of its ov	-	-	
buffer,	processor(s).		cudea control	
ourier,	Storage Server manages data cor	ntrol and transfer		
	Device Module Controller Proces			
	link list transfer tasks to/from the			
	mik list transfer tasks to/from the	storage devices.	[50 1-5]	
	The Gen5 has two general-pu	more CDUs:		
	"2.13 Dual CPU Mode	ipose CrOs.		
		CEN 5 VI some	ullar late as ab	
	The monitoring capability on the			
±≠≠ ≠2	CPU monitor the other CPU and	monitor the RAI	J subsystem."	
	[SG 2-30]			
	"Dual-CPU Mode Setup		1	
57 (* 56 (*	In a new system, the CPU in slot	-		
	and the CPU in slot 3 will be con	figured as the Sla	ve." [SG 2-30]	
			600.4 0	
	The Gen5 supervisor unit cou	ld be a Motorola	68040	
alta Sarta	microprocessor:			
	"4.3.2 Processor and IO Boards			
	The CPU boards have the type (i.	e. 68040) and op	erational status	
	displayed.	· · · ·		
	M68040 CPU-1			
	On the Gen5 system, the CPU run			
	CPU name in green. The Slave C		- 1	
	CPUs will have the text colored in			
the supervisor unit	The Gen5 maps between device		the first transport	
operable to map between	medium and the storage devic			
devices connected to the	"Each physical bank is numbered,			
first transport medium and	addressed logically by a unique F	acility Address."	[SG 1-8]	
the storage devices,				
	The Gen5 maintains the mapp	ing configuration	in tables:	
	"4.2 Important System Files			

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	System File Description
	/etc/fstab Static file systems mounting table
	/etc/mtab Currently mounted file systems
	/etc/hosts Host name database"
	[SG 4-1]
	 "The system administration and configuration management tools require the use of identifies to refer to storage entities on the disk array. These entities include the following: physical volumes physical partitions physical devices" [SG 4-3]
	"Configuration Partitions 2) Use the shell vol command to clear then configure the partitions." [SG 4-7]
	"vol - manipulate physical volumes
	Description vol is a utility used to manage physical volumes. vol accepts a number of commands which follow.
	 par The par option is used to manipulate the partitions on a volume." [SG 4-81 to 4-87]
	"2.5.2.1 Create Command Create allows the user to specify the makeup of a Partition. A Partition is created from available space on a Physical Volume. When a Volume is initially defined a default partition (p0) is created consisting of all available space on the Volume, and set to RAID level 5. When a user defined Partition (p1, p2, p3) is created the default partition is overlaid." [GUI 48]
to implement access controls for storage space on the storage devices and	 Gen5 implements access control for storage space on the storage devices by limiting certain host's ability to see the data. For the Gen5, a facility is a partition on a disk or a set of disks, and the command to implement access control from hosts to facilities is the <i>ifp</i> command combined with the field for <i>luns bitmask enable</i>: "ifp - display or modify the internal port configuration
	Description To configure the interface port parameters, select the port type followed by its valid parameters and values as listed above. The port types include:

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