PRODUCT BRIEF

Traverse-supported IT Infrastructure

Networks, Servers, Applications, Databases, Storage, Environment

This document summarizes a partial list of infrastructure and metrics that Traverse supports. Upon request Kaseya can provide a more comprehensive list of covered infrastructure and metrics.

Network

- Routing (BGP, OSPF, RIP), WiFi, RMON2
- Frame Relay & ATM
- Riverbead Steelhead, Cisco, Foundry, Force10
- Juniper, Avaya, Amperion, Neoteris

Firewalls

- Netscreen, Fortinet, NetASQ
- Checkpoint, PIX

Content Delivery

- Arrowpoint, Coradiant, Bluecoat
- F5, Peribit

Fixed Wireless

- DragonWave, Redline
- NextNet, Tasman

VoIP

- Cisco SAA/ITP, Cisco Telepresence & Unity
- Kagoor, Broadworks

Servers

- VMware, Microsoft Virtual Server
- Dell OpenManage, HP Blade Enclosures
- Compaq Insight Manager
- Linux, Solaris, HP-UX, Windows, Novell

Applications and Databases

- Oracle, SQL Server, DB2, MySQL, PGP Server
- Exchange, Lotus Notes
- IIS, Apache, WebLogic, WebSphere
- Citrix, Active Directory, DNS, DHCP, WINS

Storage

- NetApp, Sun T300, Adaptec, Hitachi, QLogic
- Brocade, ADIC, Dell Equallogic

Environment & Power

- Liebert, NetBotz, Omnitronix
- APC, Valere, Cyclades, Avocent





Networks

Device	Sample List of Metrics			
Switches	 Status Traffic Backplane Utilization CPU Load Memory 			
Neoteris VPN	 Log space util Signed-in users CPU Memory File access Web application access 			
OSPF Routing	StatusErrorsOSPF External LSA Count			
BGP4 Routing	BGP nbr-StatusBGP nbr- Updates RcvdBGP nbr- Updates Sent			
Routers-Network Interface (RFC 2863)	 Status Utilization Traffic Discards Errors Name Packets Bandwidth Utilization 			
Frame Relay & ATM	DLCI-StatusDLCI-FECNDLCI- BECNDLCI- Discards			
Coradiant	 Avg. Host Latency WatchPoint Latency 85% Host Latency Agv. Network Latency 			
Aventail (SSL VPN)	 Status Utilization Traffic Discards Errors 			
Cisco Routers	 Log File Util Authenticated Users CPU Util Physical Memory Util Virtual Memory Util 			
Cisco Nexus	CPULoadBuffer Allocation FailureMemory UtilStatus			
Data Domain Devices	Avg. Response TimePacket LossBuffer Status			

Device	Sample List of Metrics
Atrica Routers	 Power Module Status CPU Relative Temperature Filesystem Usage CPU Utilization Number of NFS Operations
Netrake (VPN Gateway)	 IKEv2 Node Initiation Attempts IKEv2 Node Association TearDowns VGW 1 VRRP Status System Operational Status IPsec Ingress Tunnels
Wireless LAN (WLAN)	 Wireless Associations Wireless Disassociations Wireless Nodes Roamed Wireless Encapsulation Errors
RMON2 (RFC2021)	Total TrafficTCP Port TrafficUDP Traffic
Cisco Telepresence System	 Number Of Calls Ethernet Peripheral Status HDMI Peripheral Operational Status DVI Peripheral Operational Status
Sycamore Networks DNX-11	 T1/E1 Port Status T1/E1 Error Seconds Ethernet Port Status Ethernet Port Traffic In/Out Ethernet Port Errors In/Out
F5 Load Balancers (Big-IP)	 Logical Interface Traffic Volume Logical Interface Errors Detected Pool Traffic Volume Pool Active Connections Virtual Server Active Connections
Sentry Switched CDU	 Tower Status Tower Input Feed Status Total Power Consumption Environmental MonitorTemp.
Packeteer Packetshaper Devices	 Power Supply Status Inside Link Traffic In/Out Outside Link Packets In/Out Outside Link Errors In/Out Partition Traffic In/Out Class Traffic In/Out
Redline (Wireless)	 Uncoded Burst Rate RedLine Wireless Uncoded Burst Rate Wireless (RF) Link Status Wireless Links Provisioned LAN Segment Packets LAN Segment Errors

Device	Sample List of Metrics
NextNet (Wireless)	 GPS Clock Status NextNet GPS Clock Status NextNet Operational Status AirLink Status Base Station Transmit Power NextNet Base Station Link Saturation VLAN Uplink Traffic
Force10	 Power Supply Status Control Processor CPU Load Control Processor Memory Utilization Network Interface CRC In
DragonWave (Wireless)	 System Operational Status Peer Authentication Status NIC Frames Modem Operational Status Radio Operational Status Radio RX Signal Level
Tasman Networks (Wireless)	TrafficPacketsChassis TemperatureFan Status
Cyclades (Wireless)	 Port Alarm Cyclades ACS Port Alarm Condition Port Traffic Port Parity Errors
Load Balancer Cisco SLB	 Load Balanced Packets (Assisted) Active Server Connections Layer-4 Connections Dropped Virt-Status
Cisco/Arrowpoint CSS Switch	 Service Connections Service State Changes Service Load Content Rule Traffic Module Status Interface Alignment Error
Cisco/P-Cube (Traffic Optimizer)	 Operational Status Chassis Power Supply Alarm Chassis Fan Alarm Active Subscribers Disk Space Utilization Active Aggregate Flows
Cisco ACE	 Server Farm Member Count Load Balanced Packets Active Server Connections Layer-4 Connections Dropped Layer-7 Connections Dropped Idle Connections Closed Virtual Server Status Real Server Status

Device	Sample List of Metrics
Riverbed Steelhead	 System Health Status CPU Utilization Optimized Connections Established Connections Active Connections Pass-Through Traffic
Cisco Unity	 Unity Server Status Number Of Ports In Use (Total) Number Of Ports In Use (Inbound) Number Of Ports In Use (Outbound) Number Of Licensed Subscribers

Servers

Server	Sample List of Metrics
VMWare ESX3, ESX4, vSphere, vCenter	 Availability Memory Available for VMs Memory Used by VMs CPU Used Number of CPUs
Microsoft Virtual Server	Number CPUsCPU UtilizationMemory AvailableMemory Utilized
Sun Solaris	 System Interrupts Swap in from Disk User CPU Time System CPU Time
НР	 Physical Memory Used Disk CPU- Load System CPU Time Application/Process Count
Dell Open Manage	 Overall Status Power Supply Redundancy BIOS Operating System Status Physical Memory Usage
Novell Netware	 System Login State File R/W Operations Number Of Open Files Number Of Record Locks
UNIX	 Blocks Memory Swapped System CPU Time Physical Memory Usage Number of Processes Disk Space Util

Server	Sample List of Metrics
Windows	 Disk Space Util Physical Memory Usage Number Of Users Number Of Processes Context Switches File R/W Operations Utilization
Lan Manager	 Windows Login Errors System Errors Workstation I/O Response Remote Connections
Compaq Insight	CPU-LoadDiskPhyMemUsedVirtMemUsed
AIX	 Average CPU Utilization Volume Group Utilization Disk Utilization File System Utilization Paging Space
HP Blade Enclosures	 Enclosure Overall Health Blade Server Status Enclosure Power Supply Status Enclosure Fan Status
Redhat Cluster Service	 Overall Cluster Status Number of Unavailable Nodes Number of Failed Services Cluster Node Status Cluster Service Status
HP Virtual Connect Module	Link ActivityPort Activity

Applications

Applications	Sample List of Metrics
Microsoft Exchange	 Address Book Sessions Directory Service Sessions Directory Service Threads Per-Protocol Traffic Information Store Users MTA Messages
Microsoft SQL Server	 Auto Param Total Batch Requests Compilations Re-Complications Logging In Users Transaction Active Log Cache Hit Ratio Database IO

Applications	Sample List of Metrics
Microsoft Media Services	 Active Streams AAA Requests Client Count Live Streams UDP Resends Authentication Requests
Microsoft IIS	 Bandwidth Usage File Transfer HTTP Send/Receive Operations Active Connections Total Traffic Authenticated users HTTP (GET) Operations
Apache	 Average Request Size Server traffic Requests per minute Connected Clients Server Utilization
BEA Weblogic	Idle ThreadsPending RequestsJVM HeapfreeOpen Sockets
Active Directory	 Address Book Sessions LDAP Threads Authentications (Kerberos) Authentications (NTLM) Users Created Membership Evaluations (Universal)
Microsoft DHCP	 Available Address Query/Response Discover Requests Lease Request Server Avail
Citrix	 Application Enumeration DataStore Traffic DataStore Reads Dynstore Writes Local Cache Traffic
Remedy	 ARsystem Status Login Failure (Incorrect Password) Active Users (Total) API Requests Received CPU Usage for API Functions Filter Actions (Notify)
Activemq Application (jmx)	Queue SizeBroker Memory UtilizationTopic Dequeues
Microsoft DNS	 Dynamic Updates Received Recursive Queries Received TCP based Queries Sent Zone Transfer Success

Applications	Sample List of Metrics
Lotus Notes	 Undeliverable Mail count Mail Queue Size Mail traffic Transaction Rate Active User sessions Buffer Pool I/O rate
URL Transactions	Transactions errorsTime to completeIncomplete transaction
Sendmail	 Process Count Load Average MTA Status Queue Size System-Wide Messages Rcvd System-Wide Messages Sent
PGP Universal Messaging Server	 Number Of Messages Processed Number Of Messages Encrypted Number Of Messages Decrypted Number Of Messages In Queue

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Database	Sample List of Metrics
Microsoft SQL Server	 Auto Param Total Batch Requests Logging In Users Database Txn: Active Log Cache Hit Ratio Database Status Percentage Used Database IO
Oracle	 Performance Counter Table Space Utilization Replication Schema Status Listener Status Committed transactions Datafile Reads / Writes
Sybase, DB2 & Ingres	 Transaction Rate Disk Reads / Writes Page Reads / Writes Out Of Space Errors Requests Status
MySQL	 Aborted connects Queries per second Handler stats Delayed errors Key read requests Opened tables

Database	Sample List of Metrics
Postgres	 Database Size Number of Connections Number of Locks Heap Blocks (Read/Hit) Number of SQL Queries

Storage

Storage Device	Sample List of Metrics
Brocade / SAN	 SAN Switch Status SAN Port Physical State Fibre-Channel Switch Status Traffic CRC In
Network Appliance	CPU UtilizationNFS OperationsDisk I/ORPC Call
Adaptec Array	Adapter statusContainer statusEnvironmental status
BlueARC	 File System Load (Client) Volume Space Utilization CIFS Share Usage NFSv2 GetAttr Operations
Dell Equallogic SAN	 Total Storage Space Usage Replication Space Usage Group Member Average Latency Group Member iSCSI Connections
Sun T300	 FRU Removal Shutdown Total Read Requests Total Blocks Read Total Cache Hits On Read
AMI Megaraid	 I/O Reads Adapter I/O Writes Adapter Read/Write Failure I/O Failure
Hitachi Storage Array	 Disk Controller Processor Status Disk Controller Internal Bus Status Disk Controller Power Supply Status Disk Controller Battery Status
Qlogic SAN Switch	Switch Port StatusSwitch Port Link FailuresSwitch Port Sync Losses
EMC Avamar Grid	Number Of Active SessionsStorage Space UtilizationTime Since Last Validated Checkpoint

Power/Environment

Example Equipment	Sample List of Metrics
Liebert UPS	UPS Battery CapacityUPS Output Line Voltage
Amperion Broadband over PowerLine	AC Line (Power) StatusAFE Extractor Receive Gain
Liebert HVAC	Number of ConditionsOverall System StateTemperature Probe
Valere DC Generators	Valere Power Module StatusSystem Voltage
UPS	UPS Battery StatusUPS Battery Capacity
Omnitronix	Sensor StateRelay/Contact State
Avocent Intelligent Power Strips	Temperature Sensor 1Voltage Sensor 1
APC Powernet (Netbotz) Devices	Sensor TemperatureSensor Communication StatusSensor Outlet Status

ABOUT TRAVERSE

Traverse is a next-generation monitoring solution from Kaseya, a global software solution provider with over 10,000 customers globally. Traverse's patented technology offers a distributed, scalable monitoring platform with rich data analytics and unified cloud & network management. Traverse allows enterprises and Managed Service Providers to optimize their IT operations with faster mean time to resolution for slow or failed IT services within their infrastructure. Customers leveraging Traverse include the Fortune 100 as well as small-sized and medium-sized businesses worldwide. For more information, visit www.traverse-monitoring.com

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