

XangatiTM Management Dashboard

OVERVIEW

Xangati Management Dashboard (XMD) provides virtualization professionals enterprise-wide visibility to troubleshoot, design and optimize their virtual infrastructure. With real-time, continuous views into communications, CPU, memory, storage and infrastructure latency – XMDs show exactly what ESX/ESXi hosts, VMs, storage, apps and IP devices are doing and how they interact. Navigate from one VM to another, drill into an ESX host to see storage latency, or view a triggered DVR recording of abnormal activity.

BENEFITS

- Accelerate virtualization projects
- Troubleshoot problems 10x faster
- Design superior deployments
- Optimize infrastructure performance
- Prove virtualization is not to blame

Visibility to Accelerate Virtualization

Xangati Management Dashboard (XMD) provides performance insight into ESX/ESXi hosts, VMs, storage, network, applications and end-user devices across virtual and supporting physical infrastructure. XMDs provide virtualization professionals real-time continuous visibility from every virtual machine to everything the VM interacts with or depends on – “VM-to-Anything” visibility. A Xangati Management Dashboard can also consolidate multiple Xangati for ESX Pro dashboards to provide visibility across multiple ESX/ESXi Hosts.

Troubleshoot 10X Faster

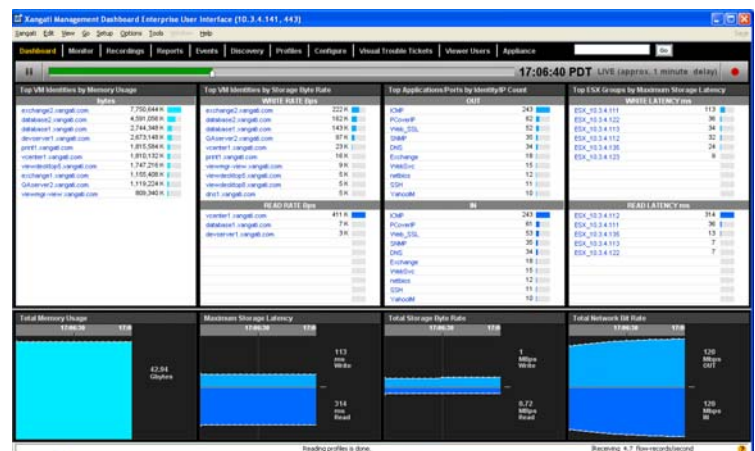
Continuous “VM-to-Anything” visibility identifies in minutes problems that would otherwise take days or weeks, if they could even be identified at all. Dynamic drill-down navigation provides the power to walk through any infrastructure and see what is happening just by clicking a mouse. Each click brings up everything communicating with the identity in question – be it a desktop, application, VM, port, protocol, host, storage or end user. Within seconds you’ll know if a VLAN is misconfigured or if storage read/write latency is causing a problem. If users start complaining about performance, a XMD will immediately show what they are doing and identify if the problem is CPU, memory, storage, network, application or activity related. Are HD videos crowding out email or business applications? Have application code changes created a new problem?

XMDs eliminate problem recreation delays with DVR recordings of CPU, memory, storage, infrastructure latency and communications activity. DVR recordings capture

more than just the metrics, they capture the relationships and dependencies between metrics at the time of the recording – providing the contextual information that is critical to effective troubleshooting. DVR recordings are triggered in four ways: manually, scheduled in advance, when Xangati detects out-of-profile activity and when Xangati receives an alert or trap from VMware vCenter.

Design Superior Deployments

Xangati Management Dashboards improve virtual application, desktop and data center deployments. XMDs discover and present comprehensive dependencies for any application or desktop, from Active Directory servers and storage



Xangati Management Dashboard showing complete VM activity in context from memory usage to maximum storage latency to top VMs by memory usage, top applications and top ESX Pairs by latency. Over 150 metrics are available.

dependencies to database, application, and presentation servers. Functionality changes over time are easy to observe. Xangati sees dependencies on both the physical and virtual infrastructure enabling designs to be created, tested and validated with hard numbers. You will be able to identify and ensure your top talkers and resource consumers are appropriately located for the performance you desire, and monitor them continuously. High-performance cluster design depends on the information that Xangati provides about dependencies and system performance.

Optimize Performance

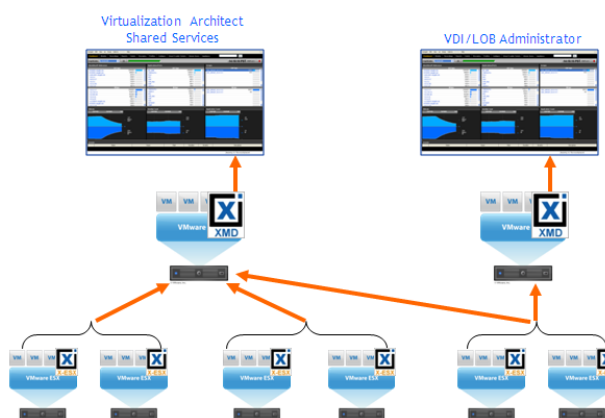
Xangati Management Dashboards highlight optimization opportunities. Observing performance metrics and activity for your physical and virtual infrastructure in the same pane of glass provides visual correlation of where problems on one cause problems on the other. Intelligent and automatic profiling establishes performance baselines and alerts to any changes. Out of character activity is DVR recorded for further study. Xangati even extends vCenter functionality for CPU and Memory tracking, and allows DRS affinities to be set based upon changing VM behavior or I/O activity.

Management Dashboard Options

Xangati provides the functionality and scale you need in three editions. Which edition(s) you choose depends on the number of ESX hosts you want to see in a single dashboard, whether you want behavioral profiling to proactively alert you to issues and whether you want to collect data directly from physical switches and routers.

Remote Object Viewers

Optional Xangati Remote Object Viewers (ROVs) provide a “mini-Dashboard” for a single VM – perfect for giving to application owners. ROVs enable anyone to have a live view into the activity of a VM or ESX host. For example, if an ROV is assigned to every new VM, the VM owner can see in real-time what their VM is doing – from what applications are running to CPU, memory, latency and communications activity. Historical reporting is also provided along with DVR recordings to speed troubleshooting. Application owners can observe for themselves the effects of various application configurations and immediately assess if they have a user related problem or something larger.



Xangati Management Dashboards consolidate visibility across multiple ESX/ESXi hosts. Multiple XMDs can be deployed so some cover a portion of the infrastructure for a department or team (VDI desktops for example) and others to see everything.

Identity Packs

Optional identity packs enable you to scale your implementation up to 250,000 objects. Add Identity Packs to enable historical reporting, profiling, alerting and DVR recordings for the entire network if desired.

Continuously Available Metrics

Xangati for ESX products display over 150 metrics continuously from eight (8) core elements below:

- VM
- ESX Group
- ESX/ESXi Host
- ESX Group Pairs
- Application
- Interfaces
- Group
- Infrastructure

Displayed metrics include:

- TopN by CPU Usage
- TopN by Memory Usage
- TopN Pairs by Network Latency
- TopN by Network Bit Rate (IN & OUT)
- TopN by Network Utilization (IN & OUT)
- TopN by Identity / IP Count (IN & OUT)
- TopN by Storage Byte Rate (READ & WRITE)
- TopN by Maximum Storage Latency (READ & WRITE)
- Total CPU Usage
- Total Memory Usage
- Total Network Bit Rate (IN & OUT)
- Total Network Packet Rate (IN & OUT)
- Total Identity/IP Count (IN & OUT)
- Total Application Count (IN & OUT)
- Total ESX Count (IN & OUT)
- Total Interface Count (IN & OUT)
- Total Storage Byte Rate (READ & WRITE)
- Total Maximum Storage Latency (READ & WRITE)

Reporting

Management Dashboards include easy to use reporting covering all monitored identities (Named IPs). Reports are helpful when analyzing capacity and predicting future needs or segmenting infrastructure communications. Reports cover from one hour up to 12 weeks of historical data on the following elements:

- Event
- Application
- Group
- Interface
- Unmapped Port
- Overall
- Unmapped Traffic
- ESX Group Pair

Xangati Management Dashboard			
Feature	Standard	Enterprise	Enterprise Plus
Live Visibility into supported ESX Hosts, VMs, Applications, Groups	Yes	Yes	Yes
Live Visibility into multiple ESX / ESXi hosts and all available metrics in a single dashboard	Yes	Yes	Yes
One click recordings and Visual Trouble Ticket Portal to manage all DVR recordings	Yes	Yes	Yes
Automatically map IPs to given name to create Named Identities which are displayed in the dashboard, on reports and for profiling	2,000 IPs	5,000 IPs expandable to 20,000 IPs	20,000 IPs expandable to 200,000+ IPs
Full Historical Reporting on Named Identities	Yes	Yes	Yes
60 minute DVR scroll-bar for all metrics and 10 “My Favorites” and 10 “Open Views”	Yes	Yes	Yes
Profiling and Alerting on all Named Identities, Applications & Groups	No	Yes	Yes
Ways to trigger DVR Recordings of activity: <ul style="list-style-type: none"> • Manually • Scheduled in Advance • vCenter Threshold Alert • Out-of-profile Xangati Alert 	<ul style="list-style-type: none"> • • • 	<ul style="list-style-type: none"> • • • • 	<ul style="list-style-type: none"> • • • •
Supported number of ESX-Licensed Processors	Up to 40	Up to 100	Up to 1,000
Supports Xangati Remote Object Viewers	No	Yes - Optional	Yes - Optional
Collect data from physical switches and routers	No	Yes	Yes
Deploy as a turnkey .OVF virtual appliance from vCenter into vSphere 4.x and ESX/ESXi 3.5 & 4.x environments	Yes	Yes	Physical Appliance

About Xangati

Xangati is the leading infrastructure performance management solution that accelerates virtualization with patented “VM-to-Anything” visibility. IT organizations use Xangati to troubleshoot virtual performance problems and to design and optimize their virtual and physical infrastructure.

Xangati Management Dashboard System Requirements

- VMware ESX/ESXi v3.5, 4.x
- Standard Edition:
- 1 vCPU (2Ghz min), 4 GB RAM (2 GB min)
 - 1 x 20GB & 1 x 80 GB DISK, 4 NICs
- Enterprise Edition:
- 2 vCPU (4Ghz min), 8 GB RAM (4 GB min)
 - 1 x 40GB & 1 x 160 GB DISK, 4 NICs