

Unlock IT Efficiency with X-Ray Vision for Virtualized Data Centers

One Click to Root Cause

Solution Benefits

One-click root cause for virtualized data centers

- Troubleshoot in minutes, not hours or days time
- Eliminate finger-pointing by providing correlated cross functional forensics
- · Reduce application service down time

Assure application peak performance with preemptive service remediation

- Guarantee application response time and 24x7 availability
- Proactively monitor applications from the end user perspective
- Prove root cause domains to data center external factors, i.e., client device, remote site or WAN

Get more out of existing infrastructure and cut unnecessary spending

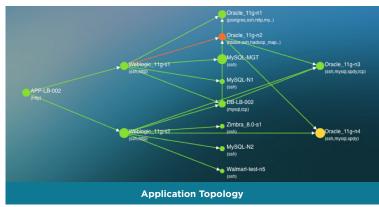
- Identify overprovisioned infrastructure
- Make infrastructure upgrades count -- pinpoint bottlenecks that affect critical applications
- Eliminate complicated, expensive, and siloed monitoring tools

Growing adoption of virtualization and micro-services has given organizations much more flexibility, but multiple layers of obfuscation between the applications and infrastructure make it increasingly difficult for IT staff to identify the root cause of performance issues. Virtualization is also happening across the stack from applications to infrastructure including servers, storage, and networking. This simplifies IT service deployment dramatically, but creates performance monitoring and management visibility challenges for IT staff.

Most existing performance management solutions focus on specific components in the stack and can't provide end-to-end full stack visibility of the data center. As a result, IT staff spend much of their time fighting fires and trying to identify root cause, jumping from one tool to another looking for information, and sitting in finger-pointing meetings. In addition, IT staff lacks the end-to-end correlated analytics and empirical data to make informed decisions about data center optimization and planning.

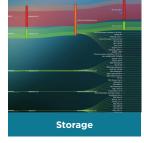
Uila Application-Aware Infrastructure Performance Monitoring gives IT infrastructure and operations professionals the ability to identify root cause issues with one click. Uila's full stack visibility and correlated analytics help ensure peak application performance and accelerated IT project efficiency. Uila's agentless solution monitors everything from the end user experience, application server performance, infrastructure compute, and storage to networking resources – both in the virtual and physical layer.









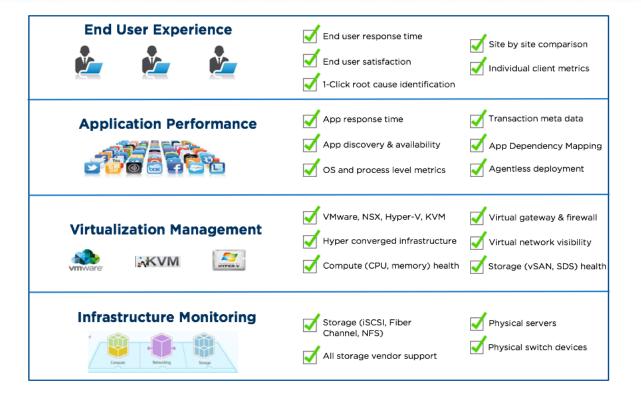






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Uila Full Stack Visibility and Correlation



Feature Highlights

Application Intelligence and Analysis Completes IT Operations Full Stack Visibility

- Auto-discover over 4000 applications with deep packet inspection
- Application performance monitoring tracks response time and service level
- Service availability monitoring alerts on service disruptions
- Application dependency mapping for multi-tier application insights
- Application transaction metadata enables inter-departmental collaboration
- Server OS process level metrics correlates root cause with application server
- Full stack visibility covers application, compute, storage, and network
- Agentless architecture is easy to deploy and doesn't impact performance

Immediate Pinpoint Application Performance Issue to Infrastructure Bottleneck

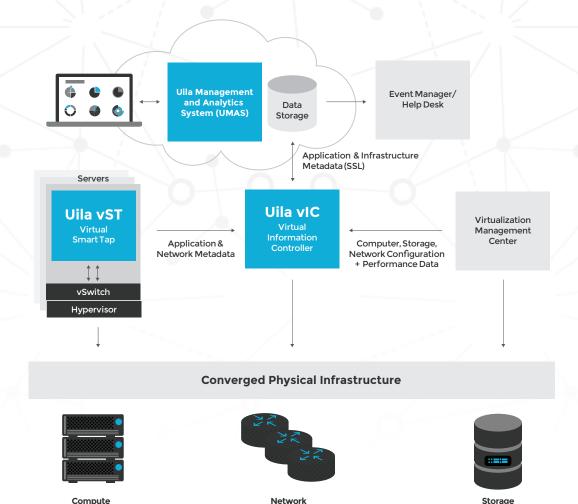
- 1-Click Root Cause automatically identifies bottlenecks
- Exonerate infrastructure with correlated full stack evidence
- · Application-to-infrastructure correlation bridges the IT troubleshooting gap
- Infrastructure health visualization shines a spotlight on application bottlenecks
- · Supports modern infrastructure including hyper-converged, software defined storage and networking
- East-west network traffic analysis eliminates monitoring blind spots
- Virtualized and physical server monitoring with OS process level details

End User Experience Monitoring - Be the first to know and fix

- End user response time tracking proactively alerts IT to service degradation
- Response time analysis breaks down delay by server, network, and clients
- · Site-by-site and client-by-client analysis isolates and correlates user issues to real root cause
- 1-click root cause correlates end user issue to real root cause
- Transaction history provides metadata for application server issue investigation
- Network flow analysis reveals network issues and stress affecting application servers

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Architecture & Solution Components



Uila Management and Analytics System (UMAS) The core of Uila virtual infrastructure architecture is a big data store and analytics engine that are designed from ground up to scale-out to accommodate large data center deployment with thousands of servers, to scale-in to record data in high resolution, maintain history data while maintaining real time responsiveness. Built-in redundancy offers high availability, removes downtime, and reduces maintenance overhead.

The patent-pending analytics engine is the brain that correlates application to infrastructure performance metrics, the smarts to pinpoint infrastructure root cause why application performance is degraded. The trending reports generated from historical data helps identify infrastructure hot spots, and maintains optimal application performance. The Uila Dashboard offers simple and yet powerful way to view the results of the analytics engine and reveal the health of applications and the underlying infrastructure in compute, storage, physical and virtual networks.

Virtual Smart Tap (vST)

Virtual Smart Tap (vST) is deployed in a distributed manner across the data center. The vST installs in the host as a small foot print and efficiently designed guest VM where it promiscuously listens to all traffic that traverses the virtual networks (North-South and East-West). Using embedded Deep Packet Inspection (DPI) technology, the vST identifies unique applications and their attributes.

The vST measures application response time, network latency, and other network performance data in meta data form. No packet payload is stored, thus removing the risk of exposing sensitive data. The vST passes this Application & Network Metadata to the Virtual Information Controller (vIC) for further processing and correlating with the infrastructure metadata collected by the vIC.

Virtual Information Controller (vIC)

Virtual Information Controller (vIC) is the integration conduit to the data center Virtualization Management System e.g. VMware vCenter. The vIC retrieves your infrastructure configuration as a template to build Uila monitoring domain and to streamline deployment.

The vIC collects network, storage and compute performance metrics that are maintained by vCenter, combines it with the application and network metadata from all deployed vSTs, and then securely transmits it to the Uila Management and Analytics System, either on-premise or in the cloud.

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System Requirements

	CPU	Memory	Storage	Remark
Virtual Smart Tap (vST)	1 vCPU (1 Core)	1 GB virtual memory	2 GB virtual storage, local	
Virtual Information Controller (vIC)	1 vCPU (2 Cores)	4 GB for small deployment with <500VMs 8 GB for medium deployment with 500-1000VMs 16 GB for large deployment with 1000-2000 VMs	8 GB virtual storage, local, thin provision	
		32 GB virtual memory 24 GB reserved t is for monitoring up to 1,000 VM and Physical Device	800 GB by default, local, thin provision tes. Refer to Install	1. Not required for Uila Cloud 2. Default 2-month data retention period 3. Able to expand disk on the fly to accommodate larger DC or longer data retention period ation Guide or Contact Uila if your
deployment is lar				
Internet Browser	Windows: Firefox, Edge, Chrome OS X: Safari, Firefox, Chrome, Opera Linux: Firefox, Chrome			
Hypervisor	VMware	vSphere ESXi 5.0, or higher vCenter Server 5.0 or h	nigher	
	VMware/ NSX	vSphere ESXi 5.5, or higher NSX 6.2, or higher		

System SKUs

Hyper-V

Description	Remark
Uila AA-IPM Annual Subscription License for x number of pCPU sockets	Including software updates and support (Refer to www.uila.Com/support)
Uila AA-IPM Perpetual License for x number of pCPU sockets	Software update and support purchased separately. See PS-AIPM-x
Annual Support for Uila AA-IPM Perpetual License for x number of pCPU sockets	Including software updates and support (Refer to www.uila.com/support)

Standalone or Cluster mode Windows 2012 R2 or higher

- 1. pCPU is a physical socket populated with CPU chipset in a server or host.
- 2. x starts from 5, 10, 25, 50, 100, 500. Call Uila for additional SKU

About Uila

Uila gives IT infrastructure teams x-ray vision for their data center operations and end user experience. Designed specially for virtualized environment, our application-aware infrastructure performance monitoring, service dependency mapping and full stack correlation with 1 click root cause analysis provide instant visibility into hotspots and bottlenecks. Uila solution includes patented deep packet inspection technology that understands over 4,000 application protocols for transactional meta data analysis. Our customers use Uila solution to cut time to resolution from days to minutes, keep application at peak performance at all time and ensure end user satisfaction to the fullest. Uila was founded by network management industry executives with deep expertise in network traffic and infrastructure analysis.

Uila, Inc.

2905 Stender Way, Suite 76E Santa Clara, California 95054 www.uila.com (408) 819-0777 sales@uila.com

