VIRTANA INFRASTRUCTURE MONITORING LICENSING GUIDE

Virtana Infrastructure Monitoring gives you complete visibility across your entire infrastructure, allowing you to proactively guarantee the continuous availability and performance of your mission-critical applications in any cloud environment.Virtana Infrastructure Monitoring has two required components for operation:

- **A Virtana Infrastructure Monitoring Management Appliance:** Available in either physical or virtual format. Each management appliance includes a license to use the included Virtana Infrastructure Monitoring Management Software, including all analytics, dashboards, discovery, and other management capabilities available.

- **WisdomPacks:** WisdomPacks include licenses to monitor specific types of infrastructure.

Virtana Infrastructure Monitoring Management Appliances

Two options of the Virtana Infrastructure Monitoring management appliance are available – each includes a license to use the included Virtana Infrastructure Monitoring Management Software:

- **Physical Appliance:** Designed to support larger enterprise implementations, The Enterprise Edition runs on a 2U platform appliance.

- **Virtual Appliance:** Licensing for The Virtual Edition of the appliance is per appliance instance. The appliance runs on a VMware ESX Virtual Machine with a minimum of 8 CPU, 64GB Memory, 1064 GB storage, 1 IP address. The Virtual Edition supports up to 200x ESX hosts, 100x Hyper-V hosts, 100x AIX PowerVM cores and 50,000 FC SAN ports.

WisdomPacks

WisdomPacks include licenses to monitor specific types of infrastructure*:

WisdomPack for Virtualization: Licensing for this WisdomPack is by the virtual host. Supported virtualization platforms include VMware, Microsoft HyperV, Red Hat KVM, and IBM PowerVM. For VMWare, HyperV and PowerVM, each WisdomPack licensed supports a single virtual host (for instance, a physical ESX host system). For Red Hat KVM, each WisdomPack license supports three KVM hosts. There are no limits on the number of virtual machines supported per virtual host. Each license also includes 50 IP Network endpoint monitoring licenses (see WisdomPack for IP Networks below).

WisdomPack for Operating Systems: This WisdomPack is licensed per operating system host. Operating systems currently supported are Windows, Linux, and Solaris. Each WisdomPack license supports a single operating system host for Windows and Linux. For Solaris, two Operating System WisdomPacks are required for each host. Each WisdomPack for Operating Systems license also includes 5 IP Network endpoint monitoring licenses (see WisdomPack for IP Networks below).

WisdomPack for Storage Area Networks (SAN): This WisdomPack is licensed per fibre channel switch port monitored. Each WisdomPack license supports a single port connection. SANs supported: Cisco and Brocade.

WisdomPack for Software Defined Storage (SDS): This WisdomPack is licensed per software-defined storage (SDS) node monitored. Each WisdomPack license supports a single SDS node. SDS nodes supported include VMware VxFlex OS (1 license per VxFlex OS node monitored) and VMware VSAN (1 license per VSAN node monitored).

WisdomPack for IP Networks: This WisdomPack is licensed per unique IP address monitored (typically servers). Each WisdomPack license supports a single endpoint and enables IP conversation monitoring via NetFlow, sFlow, JFlow, or IPFIX. WisdomPacks for Virtualization and Operating Systems include entitlement to use this functionality (see numbers of endpoints supported by WisdomPack type above).

WisdomPack for Enterprise Storage: This WisdomPack is licensed by the number of controllers, engines or nodes in a traditional storage array such as a SAN or NAS device. The entitlement ratio varies by Array or Filer type. For example, a single WisdomPack for Enterprise Storage license supports:

Additional Licenses

For organizations interested in gathering data from a port on their ProbeFC appliance, they will need to have a ProbeDC as well as one of the following supported licenses to enable that data collection:

WireData License: Allows collection of Flow Data from one Performance Probe FC16-24 Port (up to 24 ports Per Probe). Ports running at 4 Gb Consume one-quarter of a license (1:4), 8 Gb consume one-half of a license (1:2 ratio) while 16 Gb ports consume a full WireData license. Also allows ingest of SAN Telemetry Streaming of flow data from Cisco MDS Fiber Channel Switches equipped with Telemetry-enabled 32 Gb Blades.

FC32 WireData License: Allows collection of Flow Data from one Performance Probe FC32-24 Port (up to 24 ports Per Probe) running at 32 Gb.

Storage Integration Licenses: The following licenses allow the collection of Configuration, Health, Utilization, Capacity and Performance from specific manufacturers' products:

- Dell XtremIO
- Dell EMC PowerStore
- Dell EMC Unity
- Dell EMC VPLEX (Storage Virtualization)
- Hitachi VSP
- Infinidat InfiniBox
- HPE (3Par line of products)

Cisco UCS License: Collect capacity, usage, performance, and health information from the physical and logical components of the UCS Chassis. Used in combination with granular cross-domain metrics and ML/AI based analytics from the Virtana Infrastructure Monitoring platform to provide unparalleled visibility into delivery of mission critical applications that are hosted on Cisco UCS.

IP Switch License: Allows collection of Port Health and Utilization metrics from native IP Switches from Cisco, Dell, Juniper, and Arista (Certain models tested/validated).

Cisco Nexus License: Allows Collection of port Health and Utilization Metrics from Cisco Nexus 9000,7000 & 3000 Series switches.