CA Application Delivery Analysis Multi-Port Monitor

Release Notes

Version 10.1

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Chapter 1: Welcome to Release 10.1

CA Application Delivery Analysis Multi-Port Monitor (Multi-Port Monitor) is a powerful appliance that captures session-level packet data from a monitored data center. The appliance captures data for reporting in CA Application Delivery Analysis and CA Application Performance Management (APM).

- Data from TCP packet headers help CA Application Delivery Analysis monitor end-to-end performance to measure application response time.

- Data from full HTTP packets help CA APM map transactions in your environment to monitor the end-user experience and measure Service Level Agreements.

By passively monitoring large volumes of traffic from multiple ports, Multi-Port Monitor helps keep a continuous record of end-to-end system performance.

These *Release Notes* provide information about the enhancements and known issues in release 10.1. This information supplements and supersedes information listed in the product documentation.

New in this Release

Multi-Port Monitor release 10.1 provides the following features and enhancements:

New CA6300 Hardware Appliance

- A new appliance, the CA6300, is now available for MTP version 10.1. The CA6300 delivers improved performance supporting greater quantities of SPAN data, enhanced processor speed, increased disk space for System and Data arrays, implements RAID 6 for enhanced reliability of the Data array, and provides built-in support for the Intelligent Platform Management Interface (IPMI). See the *Installation Guide* for the specifications of the CA6300 appliance.

- The IPMI feature, available with the CA6300 appliance, allows you to not only remotely control and power cycle the appliance, but also provides support for sending environmental alerts related to power, temperature, fans, and other items affecting the health of the CA6300.

CentOS 5.11 Support

- This release ships with CentOS version 5.11 for both appliances. You can upgrade your existing CA6000 appliance to MTP 10.1 with CentOS 5.11.

Improved performance for the buildpcap utility

- The standalone buildpcap utility builds a pcap file based on the criteria you specify, or in response to a Packet Capture Investigation request from the CA Application Delivery Analysis console. Performance of buildpcap has been improved in this release.

TIM Ramdisk size increased

- The size of the TIM Ramdisk (/nqtmp/tim) has now been increased from 2Gb to 4Gb.

Analysis Tab Column Sort

- Clicking on any column heading in the Analysis Tab now sorts data correctly.

Supported Products

Multi-Port Monitor version 10.1 supports the following applications:

- CA Application Delivery Analysis version 9.3, 10.0, and 10.1.

- CA APM Transaction Impact Manager version 9.1, 9.5, and 9.6.

- The Multi-Port Monitor was designed for display in Microsoft Internet Explorer version 8 or 9 and Mozilla Firefox, and requires Adobe Flash Player. Internet Explorer version 6 and 7 are not supported.

Upgrade Considerations

When planning your Multi-Port Monitor upgrade with CA Application Delivery Analysis, upgrade the Multi-Port Monitor appliances before you upgrade CA Application Delivery Analysis. The Multi-Port Monitor is compatible with CA ADA version 9.3, 10.0, and 10.1.

The upgrade process includes upgrading:

- The operating system to CentOS 5.11

Do not skip MTP releases. The only supported upgrade path to MTP 10.1 is from MTP 10.0. If you are on an earlier release of MTP, you must first upgrade to MTP 10.0 and then upgrade from MTP 10.0 to MTP 10.1.

Important! The Multi-Port Monitor does not monitor traffic during the upgrade of the operating system and the Multi-Port Monitor software.

After the software upgrade completes:

- Data monitoring resumes. We recommend performing the upgrade in a maintenance window where the load on the Multi-Port Monitor is lower or ideally, normal operations are shut down.

- Existing data is migrated to the Vertica database schema introduced in version 10.0 by the 10.0 upgrade process. For this reason, it is necessary to be at MTP version 10.0 before upgrading to MTP version 10.1. This post-upgrade data migration task will complete more quickly with a lowered load on the Multi-Port Monitor. To complete in a reasonable time, no more than 5 billion database rows are migrated:

  - Daily partitions above this limit will be purged oldest to newest until the database is below 5 billion rows.

  - On a Multi-Port Monitor with a typical processing load, data migration should complete in no more than 8-16 hours. With a heavy processing load, data migration should complete within 24 hours.

See the *Upgrade Guide* for complete information about upgrading Multi-Port Monitor to version 10.1.

Product Scalability and Performance

Performance and scalability are largely dependent on several factors:

- The amount of data that is mirrored to each passively mirrored port.

- The number of sessions that data traffic represents.

- The number of WAN optimization devices or CA GigaStor monitor feeds assigned to Multi-Port Monitor.

- The presence of TIM on the Multi-Port Monitor appliance. For information about managing the performance of TIM running on the appliance, see the *CA APM Sizing and Performance Guide*, available on the CA Application Performance Management bookshelf.

The volume of traffic that is captured depends on the rate at which the RAID controller writes data to the hard disk drives. Packet slicing improves this rate. The default Multi-Port Monitor hardware filter slices packets so that only packet headers are captured. The resulting smaller files reduce disk contention.

In general, Multi-Port Monitor supports write-to-disk rates ranging from 300 to 400 MBytes per second across all active logical ports. The 2x10 GB configuration tends to achieve the higher end of the range because it writes fewer but larger files. The 8x1 GB configuration writes multiple, smaller files, creating opportunities for more disk contention.

Scalability Guidelines

For the 8x1 Gbps (Gigabits per second) configuration, the metric engine performs well with the following parameters:

- All 8 ports active, receiving at 70 percent of total capacity, or approximately 5.6 Gbps.

- 2.5 million active sessions.

The 4x1 Gbps configuration has the same processing power at the 8x1 configuration, but with fewer ports. Therefore, the metric engine performs well with the following parameters:

- All four ports receiving a data rate of approximately 4 Gbps.

- 2.5 million active sessions.

For the 2x10 Gbps configuration, the metric engine performs well with the following parameters:

- Both ports receiving a data rate of approximately 2.5 Gbps (for a total of 5 Gbps).

- Four million active sessions (2 million per port).

Throughput can be increased slightly by decreasing the number of simultaneous sessions. On the 2x10 Gbps configuration, the metric engine performs well with the following parameters:

■ Both ports receiving a data rate of approximately 3.2 Gbps, for a total of 6.4 Gbps.

■ Two million active sessions, one million per port.

Individual results vary based on throughput, file sizes, the number of active ports, and the number of sessions.

Note: Response times for Multi-Port Monitor analysis queries increase as the hourly throughput increases. Query times begin to degrade as the number of entries in the metric database approaches 7 billion.

Considerations for CA Application Delivery Analysis

The write rate and other hardware constraints are important aspects of traffic scalability. Another factor to consider is the capacity of CA Application Delivery Analysis to process TCP packets into five-minute summary files. This processing capability is further constrained when a WAN optimization device or CA GigaStor is assigned to Multi-Port Monitor.

To avoid overloading the management NIC, do not assign WAN optimization feeds to a Multi-Port Monitor that receives packet digests from CA GigaStor. This configuration is supported, but performance is dependent on traffic volume. One Multi-Port Monitor can process packet digest files from all three segments ([Client], [WAN], and [Server]) for up to 50,000 optimized connections. If possible, do not assign more than one WAN optimization device to the same Multi-Port Monitor, and load-balance the branch devices.

A CA Application Delivery Analysis management console can support other collection devices, including single-port monitors and WAN optimization devices. The processing load that is created by registering Multi-Port Monitor with CA Application Delivery Analysis is expressed as a collection unit. For example, a CA Application Delivery Analysis single-port monitor consumes one collection unit, and a 64-bit CA Application Delivery Analysis management console supports up to 15 collection units.

One Multi-Port Monitor is the equivalent of five collection units.

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Chapter 2: Known Issues

This section describes known issues and suggests workarounds.

Permission Set Limitation

When bound to CA Performance Center, the CA Application Delivery Analysis management console enforces permission sets, however, the Multi-Port Monitor does not. For example, if a user has permission to a particular group of servers, and the Multi-Port Monitor can monitor at least one of the servers in the group:

- In CA Performance Center, access is limited to the servers in the permission set.

- In CA Application Delivery Analysis data source, access is limited to the servers in the permission set.

- In Multi-Port Monitor, the Analysis tab displays performance data for all servers in the domain.

If necessary, restrict CA Application Delivery Analysis data source access to avoid giving a user access to data in the Multi-Port Monitor that is outside their permission set.

Note: Restricting the Drill into Data Sources role right does not prevent a user from directly accessing the CA Application Delivery Analysis management console and Multi-Port Monitor.

Export to PDF fails when another browser window or tab is open

The issue occurs in the following situations:

- You simultaneously access the Multi-Port Monitor web interface from two different browser instances on the same computer.

- You simultaneously access the web interface from two separate tabs within the same instance.

- You drill down from CA Application Delivery Analysis when another browser instance is already logged in to the web interface.

- You initiate Session Analysis from multiple CA Application Delivery Analysis reporting contexts.

The main symptoms are:

- User actions, such as filter selection, performed in one window or tab affect the behavior of the other tab.

- The exported PDF shows a view that was selected in another window or tab.

We have seen these problems with Internet Explorer 8 and Mozilla Firefox 3.0. Both browsers assign the same session to both windows and tabs. **Workaround**: Do not perform Export to PDF in multiple browser instances or from multiple browser tabs on the same computer at the same time. (Defect 22432)