V-locity® and V-locity Management Console (VMC) 7.0 Release Notes

Overview

This document outlines changes that were made for the release of V-locity and V-locity Management Console (VMC) 7.0.

Features and Functionality Added:

V7 (Build 7.0.218, incremental release)

- Automatic IntelliWrite® setting on MEDITECH MAT/EMR servers: MEDITECH MAT/EMR server types create a lot (millions) of small files that never grow/fragment, so it was just extra overhead checking these files trying to prevent them from fragmenting. When detected, it will automatically disable IntelliWrite on these types of systems.
- Special handling of heavily fragmented $MFT: $MFT is a special NTFS metadata file that keeps track of all the files on a volume. A restriction was found when trying to defragment a very heavily fragmented $MFT that could cause a temporary system slowness. Although it appears to be an extremely rare case, a handling was implemented to handle it.

V7 (Build 7.0.214, incremental release)

- A new free space consolidation engine has been added to efficiently handle rare cases of volumes with extreme free space fragmentation.
- Improved defragmentation methods: When extreme fragmented files with a FAL (File Attribute List) are detected, it dynamically determines how often to process these specific files by the severity of the 'FAL' fragmentation.
- In some rare cases, the dashboard display was incorrect due to an overflow operation. This was fixed.

V7.0 (Initial V7.0 release)

- Capability to install or upgrade* without requiring a reboot to load the storage filter drivers.
  * For V-locity, NoReboot upgrades supported back to V-locity 5.3.
- The V-locity and VMC UI have been enhanced.
  - The V-locity and VMC dashboard display have been improved to be more intuitive with more information and help icon descriptions.
  - VMC now has a single pane view that lists all systems and key info about each system so admins can quickly scan to identify workload intensity, I/O reduction benefit, memory and caching data, and more. This allows admins to see the exact value of I/O reduction on each system and quickly identify key systems that could use memory tuning to receive a greater benefit from V-locity's IntelliMemory DRAM caching engine.
  - The dashboard intuitively displays color coded indicators (red, yellow, green) to show which systems are getting optimal DRAM caching benefit and which systems are not. Red indicates systems in which IntelliMemory has been turned off or memory is so constrained, there is little caching benefit. Yellow indicates systems that are receiving some caching benefit but would likely deliver much higher cache hit rates with just a little more memory.
- From VMC, you can now change the configuration of remote installs to disable the Benefits Notification Popup.

V6.2.122

- New reporting dashboard showcases the "time saved" benefits from sequentializing writes and reads, plus caching hot reads in idle DRAM. See many more benefits and I/O performance metrics that graphically show what is occurring on the system.

V6.1
- Standalone UI and installation so V-locity can be deployed/managed with or without the VMC.
- Improved IntelliWrite® engine to minimize free space fragmentation so properly sized file allocations can be found by IntelliWrite to optimize writes.
- Improved free space and fragmentation mitigation engines to handle extreme files on HDDs that are starting to occur due to data explosion in enterprise organizations.
- Auto-assignment of licenses at the VMC layer.
- **It is highly recommended that you read the Help topic – Getting Started. This explains how to deploy and license V-locity in your environment.**

Fixed Field Report Issues:

V7 (Build 7.0.222, incremental release)
- IntelliMemory had a workaround to a Windows bug with Surprise Removal of storage devices. Some snapshot and backup operations can cause this code path in Windows to be executed. Microsoft recently issued a fix for this bug in Windows 10 and Server 2019. The fix can result in a system crash when previous versions of IntelliMemory is installed. IntelliMemory has been modified to account for this fix of the bug in Windows.
- The Secure Sockets Layer implementation was updated to prevent false security scan notifications.
- A fix to handle the Dashboard display from resetting in some cases.
- This incremental will only support X64 bit systems on the list of supported Windows Platforms.
- VMC was reporting Windows Server 2019 platforms as Windows Server 2016. This has been fixed.

V7.0
- On Upgrades, the dashboard data if present, is now retained from the previous installation.
- In the V-locity Management Console (VMC), there was a noticeable delay is displaying the summary dashboard when hundreds of systems were selected to monitor. A fix was implemented for this.
- When changing between tab displays in the dashboard, the selected time frame was not being retained. This has been fixed.
- To handle a compatibility issue with a third-party PDF Editor product from Bluebeam, two new file types were added to the IntelliWrite Exclusion List, *.mx* & *.ps*.
- In the dashboard, when the I/Os eliminated became very large, the percentage was not being displayed. This was fixed.
- In the dashboard, the was an edge case where it displayed negative fragments prevented/eliminated. This was fixed.
- For the VMC, the instruction on applying filters for the LDAP scan has been corrected.

V6.2.128
- In some rare instances, IntelliMemory® was not returning memory used for caching back to the system quick enough, resulting in a small delay. This has been fixed in this version.

V6.2.124
- IntelliMemory was getting disabled on systems with 16 or more storage devices. This has been fixed in this version.
- If a ReFS (Resilient File System) formatted volume that is configured to be encrypted through Windows® BitLocker™ is present on the system, IntelliMemory does not recognize it and can cause a BSOD (Blue Screen of Death). This has been fixed in this version.

- In some cases, the Dashboard erroneously reported zeros and/or Memory values lower than they should be. This has been fixed in this version.
- In the Dashboard memory metrics display, they were not being displayed in the correct color – Red: Insufficient Memory or Yellow: Low Memory – to indicate when there was not enough available memory for optimum performance gains. This has been fixed in this version.

V6.1

- In some cases, IntelliMemory was getting disabled on some Multipath storage devices. This has been fixed in this version.
- A reported case where a custom settings configuration was successfully deployed, but the VMC still reported the default configuration settings.
- A few users reported VSS (Volume Snapshot Service) failed to create a snapshot periodically when V-locity was running on the system. This has been fixed in this version.

Notes:

- Allows upgrades from 5.3 with exceptions as noted.
  - o On stand-alone installations (Not through the VMC), only upgrades from 6.0 are supported.
- V-locity requires Windows 7 and up or Windows Server® 2008 R2 and up. If you are running V-locity on an earlier Windows OS, you will not be able to upgrade to V-locity 7.
- To upgrade to the V-locity Management Console version 7. you must be running V-locity version 5.3 or greater on all deployed systems. If running a version prior to version 5.3, you need to uninstall, reboot, and then install 7.0.
- The V-locity 7 local UI is accessed via a browser. If you are using IE, then IE 11 or later is required for full UI functionality. Regardless of the local UI availability, the product can still be installed and managed/configured through the VMC.
- Some other applications may be incompatible with the NoReboot feature and will inform you if a reboot is required to complete the installation. Some known incompatibilities include Acronis backup solution (Client or Server), some Citrix Server installations, or Avanti security application.

Known Issues:

- Previously reported Alerts will not be available.
- If a domain is removed from the managed environment, it will still show in the Active Directory tree in My Environment, but no systems within it will be shown.
- The Reboot Required Alert may not be triggered on an upgrade of V-locity 6.0 or earlier to 6.1/6.2. A reboot is required.

V-locity 7 V-locity Management Console (VMC) Release Notes