HIRSCH

Velocity v3.9.0.890 Release Notes

Last update on 8/29/2025

Overview

The Velocity v3.9.0.890 release includes support for the below features:

Key Features in this Release:

- **Holiday Groups:** Holiday Groups make it easier to manage holiday schedules across different sites by organizing holidays in specific groups. Controllers assigned to a Holiday Group will only follow the holidays within that group, simplifying schedule management for complex environments.
    - Ideal for:
        - Global Enterprises
        - Universities and School Districts
        - Facilities with location/region specific holidays

- **TLS 1.3 and FIPS 140-3 Support:** TLS 1.3 and FIPS 140-3 support now included in Velocity. TLS 1.3 provides faster, more secure connections by eliminating outdated cryptographic methods, while FIPS 140-3 ensures that only validated, government-approved encryption modules are used.
    - Requires SNIB3 v04.05.2120

- **Enhanced Security Domain and DIGI*TRAC Service Performance:** Enables Velocity to use multi-threaded communications, allowing for greater scalable controller quantity and communication quality at the same time. This brings faster alarm and event throughput and processing for operators, as well as general processing improvements throughout Velocity.

- **Improved Help:** Brings a new help menu that makes access to relevant documentation easier for users to access. The Help file is now a local webpage, and links directly to content based on what the operator is using in Velocity, providing quicker, more targeted support when needed most.

- **Updated License Manager:** Velocity now includes an enhanced License Manager that displays module and workstation counts, along with license expiration dates. A new expiration warning message is also included, clearly showing the number of days remaining before the license expires, starting at 90 days.

- **Various Performance and Bug Improvements**

Important Installation Notes

Before updating to Velocity 3.9 from a pre-Velocity 3.7 release, the operator must register their Velocity software and obtain the necessary license(s). See the Velocity Licensing topic for more details.

Existing Velocity users moving from Velocity 3.6 and newer to 3.9 can use the Velocity Update Wizard. The wizard simplifies the effort required to update the system and uses smaller installation files than previous versions of the Velocity Update Wizard.

Both new installations of Velocity 3.9 and upgrades to Velocity 3.9 require **Microsoft SQL Server 2017** or later. Velocity 3.9 provides operators with the option to install the free Express edition of SQL Server 2019. If the Express edition is not adequate for system needs, then the operator must install a licensed edition of a supported version before doing a new Server installation of 3.9. If an adequate version of SQL Server is installed, Velocity detects and uses this for the Velocity Database.

NOTE: Velocity 3.9 requires Microsoft SQL Server 2017 or later.

Hirsch Professional Services Integrations

For End Users that currently have Velocity Integrations developed by Hirsch Professional Services (HPS), please contact the Regional Sales Manager, or email sales@hirschsecure.com for compatibility information.

System Requirements

Before installing Velocity, make sure the Server, Workstation, and/or Client computer meets the following requirements.

Hardware Requirements

The minimum hardware requirements for a computer performing the role of a Velocity Server, Workstation, and Client are listed below.

For Velocity Server:
- x64 3.40 GHz CPU (or equivalent)**
- 32GB RAM (64GB RAM recommended for large systems)
- RAID 1 Configuration Recommended
- 1TB HDD (or equivalent)
- 1 Ethernet port

For Velocity Workstation and Client:
- x64 3.30 GHz CPU (or equivalent)**
- 16GB RAM
- 512GB HDD (or equivalent)
- 2GB video card
- Speakers (recommended)
- 1 Ethernet Port

NOTE: More RAM, a faster processor, and a faster video card with more video RAM are recommended and will improve performance for most applications; it will also help ensure long term compatibility with system expansion and upgrades to Velocity, the Windows operating system, and the SQL Server database.

Operating System Requirements

The following table shows which versions of Windows are supported by Velocity 3.9 for different computer roles.

System Role	Versions of Windows Supported
Velocity Server	- Windows Server 2022 - Windows Server 2019 - Windows Server 2016 (See note*)
Velocity Workstation or Client	- Windows Server 2022 - Windows Server 2019 - Windows Server 2016 (See note*) - Windows 11 Pro - Windows 10 Pro (See note*)

NOTE: Operating System versions which Microsoft no longer officially supports are not supported for use with Velocity.
*NOTE: Velocity Installer and Updater will not proceed unless the Windows Operating System is Windows 10 build 18363 or newer; or Windows Server 2016 build 17763 or newer.
**NOTE: Only x64 Versions of each OS are supported.

Database Requirements

The organization's IT department's policies might determine whether the operator can manage the SQL Server database for Velocity or must run the Velocity database on an existing SQL Server managed by IT.

Both new installations of Velocity 3.9 and upgrades to Velocity 3.9 require **Microsoft SQL Server 2017** or later. Velocity 3.9 provides the operator with the option to install the free Express edition of SQL Server 2019. If an adequate version of SQL Server is installed, Velocity detects and uses this for the Velocity Database. SQL Server 2022 is supported by Velocity 3.9.

NOTE: Velocity 3.9 requires Microsoft SQL Server 2017 or later.

Software Firmware Requirements

Product	End of Sale	End of Support	Firmware Version
3.9	N/A	N/A	CCM: 8.4.00.62 or 8.3.00.073 SNIB3: 04.05.2120
3.8.6	N/A	N/A	CCM: 8.3.00.073 SNIB3: 04.02.1554
3.8.5	N/A	N/A	CCM: 8.3.00.073 SNIB3: 04.01.0384
3.8.4	N/A	N/A	CCM: 8.2.01.28 SNIB3: 04.00.0088
3.8.3	N/A	N/A	CCM: 8.1.00.02 SNIB3: 03.02.1006
3.8.2	N/A	N/A	CCM: 8.0.1.046 SNIB3: 03.01.1028
3.8.1	N/A	N/A	CCM: 8.0.00.059 SNIB3: 03.00.1197
3.8	N/A	N/A	CCM: 7.6.46 SNIB3: 02.07.1047
3.7	April 2020	March 2026	CCM: 7.6.43 SNIB3: 02.05.1032

Hardware/Firmware Versions

Product	End of Sale	End of Service	Firmware Version
SNIB3, RREB	N/A	N/A	Current SNIB3 Version: 04.05.2120
Mx-1/2/4/8	N/A	N/A	Current CCM Version: 8.4.00.62
AEB8, REB8, MEB	N/A	N/A	N/A
SNIB2	November 14, 2025	N/A	Current SNIB2 Version: 6.52
M64	March 2020	April 2022	Current CCM Version: 8.4.00.62
M1N, M16	March 2020	April 2022	Current CCM Version: 8.4.00.62
M2, M8, MSP-8R	December 2017	December 2019	Current CCM Version: 8.4.00.62
XBOX, SNIB	December 2018	December 2020	N/A

NOTE: If the operator has an Mx Controller running a CCM firmware version earlier than 7.5.28, the operator must first upgrade to version 7.5.28 before upgrading to 8.4.00.62

Compatible Versions of Integrations or Optional Components

The following table shows the compatible version of integrations or optional components for Velocity 3.90.890

Component	Compatible Build
Velocity Web Client	3.9.0.461
Velocity Video Integration Framework: - Plug-in for Velocity Vision: - Plug-in for Milestone - Plug-in for Bosch VMS - Plug-in for Unified American Dynamics	 - 1.3.10.140 - 1.3.10.132 - 1.3.10.92 - 1.3.10.80
Velocity Certificate Checking Service (VCCS)	3.9.0.111
Cisco Unified Call Manager (CUCM) Integration	3.6.11.79
Velocity Intrusion Detection System (IDS) - Plug-in for Bosch IDS - Plug-in for DMP IDS	 - 1.0.3.198 - 1.0.3.71

Latest Versions of FICAM Approved Components

The following table shows the compatible builds of the software components in Hirsch's 13.02 FICAM solution, corresponding with Velocity's most recent approvals.

FICAM Component	Compatible Build for Velocity 3.8.6
CCM Firmware	8.3.00.73
SNIB3 Firmware - OS Component - Driver Component	04.02.1554 - 01.04.0002 - 03.01.0000
uTrust TS Government Reader Firmware	2.4.647
Velocity	3.8.6.151
Velocity Web Client	3.8.6
Velocity Certificate Checking Service (VCCS)	3.8.5.33
Veridt Reader Firmware	02.03.00.00

Note: For more information about Hirsch's FICAM Solution, please see the FICAM Solution section of the Velocity Help Tool.

Velocity 3.9.0.890 Reference Tickets

This section explains the individual reference tickets to track the current feature modifications, software improvements, new features, and other updates in Velocity.

Reference ID	Summary
PAC-9293	Updated Velocity install folder to include debug files
PAC-9155	Added a message box giving the user the ability to choose actions after an install/update failure
PAC-9134	Improved TLS communication to SNIB3 devices by implementing OpenSSL version 3.1.2 FIPS 140-3 validated communication library
PAC-9062	Updated Velocity Help System to now be a local webpage
PAC-9039	Updated the permissions for the "Velocity Users" group to only have access to List, Execute, and Read content in the "..\Program Files (x86)\Hirsch\Velocity folder"
PAC-9025	Added support for Velocity to auto update exit reader to "disabled" when door is set to Entry only from Entry/Exit
PAC-9024	Updated Velocity Event ID 1333 and Alarm ID 5930 to state "OSDP reader" instead of "TS reader"
PAC-9009	Updated the System Report tool to now display a message box to indicate when there are too many files being zipped
PAC-8943	Added keys to direct Windows to store DTService and SDService crash dumps in specified folder if crash dumps are generated
PAC-8888	Rebranded the message box and report in Diagnostics to Hirsch
PAC-8765	Improved the startup time for the Security Domain Service when there are many active alarms
PAC-8709	Improved the error message that is displayed if a Velocity Update is applied to a system that does not have Velocity installed
PAC-8666	Improved Download Task descriptions to provide more detail
PAC-8661	Removed support for older versions of Windows Operating Systems. Velocity Installer and Updater will not proceed unless the Windows operating System is Windows 10 build 18363 or newer; or Windows Server 2016 build 17763 or newer
PAC-8574	Removed "Dial remote DIGI*TRAC Network" task from Scheduler Wizard
PAC-8562	Enhanced DIGI*TRAC Network Service error handling by queuing messages when communication with the Security Domain Service is lost
PAC-8530	Improved system performance by implementing automatic throttling logic in the DIGI*TRAC Network Service when re-connecting to the Security Domain Service with buffered events
PAC-8491	Fixed issue where Velocity Extension Service failed to reconnect to the Security Domain Service in custom installs without a service dependency, when stopped via Windows Service Control Manager
PAC-8429	Rebranded icons and text throughout the product to Hirsch

PAC-8380	Added support for TLS1.2 and TLS1.3 in Email Writer and Scheduled Email Report
PAC-8366	Fixed an issue when switching to Graphics mode when editing a VIO could cause an error message
PAC-8356	Updated Operators report to include Two Factor Authentication information
PAC-8355	Added new option to force Windows to prompt for Windows credentials when starting Velocity. This option can only be set by Velocity Administrators
PAC-8342	Added support for TS-SF.1 and TS-SF.2 reader types
PAC-8324	Fixed issues displaying Report Manager and some Velocity menu components when using Chinese language option
PAC-8282	Added new "Holiday Group Controllers" report and modified existing Holidays reports to add Holiday Group information
PAC-8260	Added Support for new HTML Help System
PAC-8247	Updated hardware details report to include new configuration settings
PAC-8238	Fixed an issue with loading Graphics where if the DVR integration was not installed, an error may be produced
PAC-8230	Added an event when "Execute a Program" scheduled task is run
PAC-8215	Improved handling of severe TCP back-pressure in the Security Domain Service by disconnecting slow clients to prevent overall system degradation
PAC-8201	Improved label on Reader logic tab to make the Lower Assurance Level message be consistent with the reader type
PAC-8152	Improved operator audit logging by adding more events for operator actions made in the Customization Manager
PAC-8148	Improved Velocity Help System, which is now HTML based. Note: The Velocity Help system is not compatible with Internet Explorer. If Internet Explorer is set as the default browser in Windows, that setting will need to be changed to access Velocity Help.
PAC-8124	Enhanced the event displayed when downloading firmware to include the current firmware version and the version of firmware being updated to
PAC-8086	Added new Holiday Groups feature to Velocity Admin tree under the DIGI*TRAC Holidays folder
PAC-8056	Added event for PoE+ Power Fail
PAC-8043	Improved performance for Acknowledging and Clearing alarms
PAC-8035	Fixed an issue where large number of alarms could cause clients to disconnect from the Velocity server
PAC-7993	Fixed an issue where when Alarm Stacking is enabled, row information for stacked alarms may not always be up to date
PAC-7971	Removed support for Edge Evo controllers

PAC-7966	Improved core service logging functionality by auto-loading nlog.config changes so changes take affect without needing to restart the DIGI*TRAC Network and Velocity Security Domain Services
PAC-7900	"Legacy SNET Protocol" previously announced as deprecated is how turned off in Velocity 3.9 by default. It can temporarily be turned on again by contacting Hirsch
PAC-7881	Fixed an issue where Chinese characters (and other non-ASCII characters) are displayed as question marks in Event Viewer and Alarm Viewer
PAC-7758	Improved the description of Alarm 5931 to clarify the type of reader download that failed
PAC-7756	Improved reader properties interface by only displaying TS-SF reader options if the SNIB3 supports it (i.e., SNIB3 v4.2 or greater)
PAC-7673	Improved Velocity Preferences to be more secure by limiting certain global settings to only be available to Velocity Administrators
PAC-7661	Improved System Use Notification configuration by saving only when OK button is pressed
PAC-7647	Removed requirement for operator's Windows account to be a member of the Velocity Users group to support custom installations in complex Active Directory environments Note: It is still a requirement that Velocity Operator accounts have permission to connect to the Velocity database.
PAC-7551	Improved SNIB3 firmware version checking to prevent downloading SNIB3 Firmware or OS that are not compatible with each other
PAC-7400	Added new report - "ScrambleFactor Reader Options"
PAC-7372	Improved query performance by adding indexes on log tables
PAC-7149	Improved performance of Acknowledging and Clearing alarms
PAC-7140	Added new Performance Counters, that can be viewed in real-time using Windows Performance Monitor, to help with performance troubleshooting and tuning
PAC-7127	Added support to display TS APP FW version in reader properties
PAC-7097	Added Role support for new TS ScrambleFactor tab in reader component
PAC-7095	Added SF.3 reader keypad image preview and selection support and Logo and Background import and download support
PAC-7093	Added ability to detect reader TRN capabilities and resolve differences with configurations
PAC-7091	Added new System menu option to generate System Metrics
PAC-7090	Removed "Log Off Windows" option from Velocity Client menu
PAC-6970	Enhanced Security Domain Service to queue messages internally to eliminate TCP backpressure issues that could occur under unusually high peak load conditions
PAC-6969	Enhanced common logging component to include more diagnostic information

PAC-6936	Fixed an issue with the BatchViewer diagnostic tool that did not display all available information on some failed download records
PAC-6848	Fixed Credential activation/expiration time to reflect the client's local time zone Note: Velocity services must be restarted if the time zone is changed on the application server.
PAC-6810	Improved readability of Transaction Log reports for 2-Person Rule transactions
PAC-6779	Fixed licensing issue where client may not open when a valid license expires
PAC-6558	Permanently removed the Biometric tab in Credentials from Velocity
PAC-6478	Fixed issue where newly created Operator Roles are unable view/access existing IDS Panels, Points, etc. and existing FICAM Validation Profiles
PAC-6436	Fixed an issue when installing VCCS where the SystemID would not be written to the database if no internet connectivity was established at time of install
PAC-6365	Updated Velocity License Expiration Reminder to show all Velocity licenses and highlight licenses expiring in 90 days or less when the operator logs into Velocity
PAC-6360	Removed the ability to disable External event reporting and moved option to disable Internal and Transaction events options to Advanced reporting setup dialog
PAC-6296	Changed Enrollment Manager and cardformat DLL to allow embedded space as separator
PAC-6275	Fixed issue that could cause an error when adding a Velocity operator in some domain environments
PAC-6266	Distributed correct files in SNIBConfigTool folder so that the standalone SNIBConfig tool works
PAC-6252	Added menu item to access Velocity License Manager from Velocity system menu
PAC-6219	Fixed an issue where Batter Alarm Return to Normal alarms would not be processed correctly
PAC-6193	Implemented switches to prevent a "runaway" alarm from flooding a system
PAC-6138	Corrected the Help button in Port Search to open the "SNIB2 and SNIB3 – Configuring" page
PAC-5926	Fixed an issue where the certificate scheduler would drift based on the last certificate check time instead of the first
PAC-5820	Added ability forRS485 reader configurations to automatically initiate secure OSDP communication on a download
PAC-5348	Updated reader details report to re-organize keypad options and reflect new UI components
PAC-5224	Added Holiday Groups to Velocity to expand holiday grouping beyond the original 4 holiday schedules

PAC-5140	Added the ability to set additional parameters to the Connection strings used by Velocity, its components, and services
PAC-5016	Improved transaction events by appending authentication source for transactions such as (CAK), (PAK), (PAC+BIO), or (CAK+BIO)
PAC-4910	Added new Alarm message for supported Image type download error
PAC-4822	Updated the default file selection in the Firmware Import wizards to be blank, and set the common dialog's default folder to ProgramData\Identiv\Velocity if it exists; otherwise, it defaults to the Velocity installation folder
PAC-2657	Added Veridt Reader Firmware import menu to Velocity Client
PAC-2648	Added capability to Update Veridt Reader Firmware

Known Limitations

Reference ID	Summary
PAC-8778	In some instances, the Velocity icon in the Windows Taskbar is not updated to the new Hirsch icon. This is because the icon is based on the icon of the Velocity shortcut, and the Velocity Updater cannot change user shortcuts. Workaround: create a new Velocity shortcut.
PAC-8217 PAC-3950	Removed distribution of Microsoft Visual C++ (MVC++) 2008 and 2010 from latest distributables Note: Legacy ScanShell scanners require MVC++ 2010, therefore if ScanShell scanner support is required for a new Velocity installation, then the operator may download MVC++ from the Microsoft website Note: Any higher versions of MVC++ redistributables need to be uninstalled before 2010 can be installed
PAC-7938	Fixed an issue where Velocity could generate an error when extracting the update from the database on client computers Note: this may still occur on systems updated from 3.8.5 or older since the clients will not yet have the fix. The 3.9 update will prevent future occurrences
N/A	At times, Microsoft Virus protection may falsely sense files as Viruses and block an installation or update. Workaround: Add a virus or scan exception to exclude 'C:\Program Files (x86)\Hirsch\Velocity' and 'C:\ProgramData\Identiv\Velocity' from Virus and threat protection.

Deprecated Features

Feature/Function	Deprecated	Hidden	Removed
Dial-Up Support for Controllers	3.8.3	3.8.5	3.9.0
Legacy DVR	3.8.3	3.8.5	3.9.1
Legacy Bosch Central Station Receiver	3.8.3	3.8.5	N/A
Edge Evo Integration	3.8.4	3.8.5	3.9.0
New Controller | Load Setups	3.8.4	3.8.5	3.9.0
VSCM | Settings | Advanced | Synchronize Database with Controllers	3.8.4	3.8.5	3.9.0
Credential Biometric Tab	3.8.4	3.8.5	3.9.0
SNET with Host SNIB1	3.8.6	3.9.0	3.9.2
Accuant Scanner Support	3.9.0	N/A	N/A
Legacy CCTV	3.9.0	N/A	N/A
American Dynamics Video Support	3.9.0	N/A	N/A

Software Support Agreement Information

Before updating to Velocity v3.9 from a pre-Velocity 3.7 release, the operator must register the Velocity system. For currently supported products, support sunset is calculated from the latest version release date. The latest and previous versions of relevant firmware and software are included in each release.

Patches and updates are only available for the most recent supported versions. For example, Velocity 3.9 and 3.8.x are supported, with 3.7 support remaining for 6 months after the Velocity 3.9 release.

All customers on an active SSA will receive software updates and technical support until the expiration date.

Contact sales@hirschsecure.com for more information.