



Velocity v3.8.5.694 Release Notes

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Overview

The Velocity 3.8.5.694 release includes enhancements and updates to increase reliability, ease of installation, and usability.

KEY FEATURES IN THIS RELEASE:

Improved installation experience: Better support for advanced installation environments, better permission checking, improved support for custom Active Directory Group names, does not require SQL Browser Service.

Velocity Licensing "Always-Available": Velocity 3.8.5 makes it easier to move a Velocity system to a new server by allowing your existing licenses to remain active for 30 days to give you time to contact Identiv and update your licenses with the new Server ID.

LED control for Wiegand and OSDP Readers: Added reader property to blink the reader LED/ScramblePad Red LED during relay override which provided a visual indicator. For example, use the reader LED toggle to indicate when a person may or may not enter.

MCZ Custom LED color control for OSDP TS Readers: Velocity 3.8.5 allows you to customize the reader LED colors instead of using the readers default LED colors when Master Control Zones are used to control the reader LEDs.

Improved SNIB search functionality: Velocity 3.8.5 makes it easier to discover SNIB2 and SNIB3 hardware when the server belongs to multiple networks.

Card format support: Added support for the 48-Bit HID Corporate 1000 cards.

IMPORTANT INSTALLATION NOTES:

Before updating to Velocity 3.8.5 from a pre-Velocity 3.7 release, you must register your Velocity software and obtain the necessary license(s). See the Velocity Licensing topic for details.

Existing Velocity users moving from 3.6, 3.7 or 3.8.x to 3.8.5 use the Velocity Update Wizard. This wizard simplifies the effort required to update your system and uses smaller installation files than the Upgrade Wizards provided for previous versions of Velocity.

Both new installations of Velocity 3.8.5 and upgrades to Velocity 3.8.5 require **Microsoft SQL Server 2017** or later. Velocity 3.8.5 provides you with the option to install the free Express edition of SQL Server 2019. If this Express edition is not adequate for your needs, then you must install a licensed edition of a supported version (2017 or 2019) of SQL Server, before doing a new Server installation of Velocity 3.8.5. If you already have SQL Server 2017 or 2019 installed on your server, the Velocity 3.8.5 Installer detects and uses your full edition of SQL Server for the Velocity database.

CAUTION: Velocity 3.8.5 requires Microsoft SQL Server 2017 or later.

IMPORTANT IGS INTEGRATIONS NOTE:

For End-Users that currently have Velocity Integrations developed by Identiv Global Services (IGS), please contact your Regional Sales Manager for assistance when updating to Velocity 3.8.5 or email sales@identiv.com.

System Requirements

Before installing Velocity, make sure your server, workstation, and/or client computer meets the following requirements.

Hardware Requirements

In summary, the minimum hardware requirements for a computer performing the role of a Velocity 3.8.5 Server, Workstation and Client are listed here.

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

HINT: 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 3.8.5 for the different computer roles.

System Role	Versions of Windows supported
Velocity Server	<ul style="list-style-type: none">• Windows Server 2022• Windows Server 2019• Windows Server 2016
Velocity Workstation or Client	<ul style="list-style-type: none">• Windows Server 2022• Windows Server 2019• Windows Server 2016• Windows 11 Pro• Windows 10 Pro

Note: Operating System versions which Microsoft no longer officially support are not recommended for use with Velocity.

For more information please visit:

<https://support.microsoft.com/en-us/help/13853/windows-lifecycle-fact-sheet>

Database Requirements

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

Both new installations of Velocity 3.8.5 and upgrades to Velocity 3.8.5 require **Microsoft SQL Server 2017** or later. Velocity 3.8.5 provides you with the option to install the free Express edition of Microsoft SQL Server 2019.

If you are updating an existing installation of Velocity to the 3.8.5 release the Installer detects the version of the database server and will not proceed for unsupported SQL versions.

In Velocity 3.8.4 the Velocity Updater would still allow you to update with certain older versions of SQL Server even though they were not officially supported. **This is no longer the case in 3.8.5.**

CAUTION: Velocity 3.8.5 requires Microsoft SQL Server 2017 or later.

Software Firmware Requirements

Product	End of Sale	End of Service	Firmware Version
Velocity 3.8.5	N/A	N/A	CCM/CCMx 8.3.00.073 SNIB2 6.52 SNIB3 04.01.0384
Velocity 3.8.4	N/A	N/A	CCM/CCMx 8.2.01.28 SNIB2 6.52 SNIB3 4.00.0088
Velocity 3.8.3	N/A	N/A	CCM/CCMx 8.1.00.02 SNIB2 6.52 SNIB3 3.02.1006
Velocity 3.8.2	N/A	N/A	CCM/CCMx 8.0.01.046 SNIB2 6.52 SNIB3 3.01.1028
Velocity 3.8.1	N/A	N/A	CCM/CCMx 8.0.00.059 SNIB2 6.52 SNIB3 3.00.1197
Velocity 3.8.0	N/A	N/A	CCM/CCMx 7.6.46 SNIB2 6.52 SNIB3 2.07.1047
Velocity 3.7	April 2020	N/A	CCM/CCMx 7.6.43 SNIB2: 6.52 SNIB3: 2.05.1030
Velocity 3.6	July 2018	October 2020	CCM/CCMx 7.6.1.13 SNIB2: 6.52 SNIB3: 2.2.26

Hardware Firmware

Product	End of Sale	End of Service	Firmware Version
SNIB3, RREB	N/A	N/A	Current SNIB3 Version: 04.01.0384
Mx-1/2/4/8	N/A	N/A	Current CCM Version: 8.3.00.73
SNIB2	N/A	N/A	Current SNIB2 Version: 6.52
AEB8, REB8, MEB	N/A	N/A	N/A
M64	N/A	N/A	Current CCM Version: 8.3.00.73
M1N, M16	March 2020	April 2022	Current CCM Version: 8.3.00.73
M2, M8, MSP-8R	December 2017	December 2019	Current CCM Version: 8.3.00.73
XBOX, SNIB	December 2018	December 2020	N/A
DL1, SCIB	April 2014	June 2016	N/A

CAUTION: If you have an Mx controller running a CCMx firmware version earlier than 7.5.28, you must first upgrade to version 7.5.28 before you download version 8.3.00.73 to that controller. Downloading version 8.3.00.73 to an Mx controller running CCMx firmware version earlier than 7.5.28 will lock up that controller.

Compatible Versions of Integrations or optional Components

The following table shows the compatible version of integrations or optional components for Velocity 3.8.5:

Component:	Compatible build for Velocity 3.8.5
Velocity Web Services Client (VWSC)	3.8.5.585 (included)
Velocity Video Integration framework: <ul style="list-style-type: none">● Plug-in for 3VR● Plug-in for Bosch VMS● Plug-in for Unified American Dynamics● Plug-in for Cisco VSOM	1.3.9.119 1.3.9.102 1.1.9.322 1.1.9.159
Velocity Certificate Checking Service (VCCS)	3.8.5.33
Cisco Unified Call Manager (CUCM) Integration	3.6.11.79
Velocity Intrusion Detection System (IDS) Framework: <ul style="list-style-type: none">● 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 Identiv's 13.02 FICAM Solution, corresponding with Velocity's most recent approvals. The Velocity 3.8.5 submission to the GSA FICAM lab will occur after the public release of Velocity 3.8.5.

FICAM Software Component:	Compatible build for Velocity 3.8.4
CCM firmware	8.2.01.028
<ul style="list-style-type: none"> ● SNIB3 firmware ● OS component ● Driver component 	04.00.0088 01.04.0002 02.00.0007
uTrust TS Government reader firmware	2.4.647
Velocity	3.8.4.774
Velocity Web Services Client	3.8.4.421
Velocity Certificate Checking Service (VCCS)	3.8.4.41
Veridt Reader Firmware	7.20.18

Note: For more information about Identiv's FICAM Solution, see the FICAM Solution section of topics in the Velocity main help system. Information about the hardware components of Identiv's FICAM Solution is also available in Velocity Help.

New Features and Enhancements

This section summarizes the new features and enhancements introduced in the Velocity 3.8.5 release. More detailed information about each feature is provided in the partner portal and the public documentation home page.

For more information please visit:

<https://identivdocs.atlassian.net/wiki/spaces/HBI/overview>

Velocity Installer:

The Velocity software installer and update packages have been **significantly improved**. The new installer changes allow a better user experience when adding the Velocity application to servers, workstations and clients. The new installer changes include:

- Improvements on interactive and unattended installers
- Complex Active Directory and Custom Account Groups enhancements
- Installer updates newer versions of the DB provider and .NET framework 4.8 automatically
- Resolves Domain Account verification issues during Velocity installations
- Improves permission checking for non-administrator accounts
- Enforces minimum SQL version requirements

Licensing:

Velocity 3.8.5 has implemented a new “always-available” license feature for systems that have failed after an OS update, experienced a corrupted hard drive, or other system outages that resulted in relying on a Velocity database backup using different server or workstation hardware. This new feature allows the backup to operate for 30 days with a temporary license with the expectation that the user will receive the updated system ID and licenses prior to the temporary expiration.

OSDP LEDs:

Prior to Velocity 3.8.5, there were two methods for OSDP LED control. First method was customizing reader firmware and the second method was setting the LED to red in the Door Options tab in Velocity. The new method released with 3.8.5 allows OSDP custom LED colors, also known as bonus colors, to be defined in the Velocity application.

Wiegand LEDs:

Prior to Velocity 3.8.5, there were several controls that needed to be implemented for the reader LED flashing sequence to occur and that option was limited to the ScramblePad. This new feature allows a “single-click” solution to enable the reader LED flashing on a Wiegand reader. This solution now provides the access control user a new indicator at the reader that the door is not currently in a normal condition.

Reference ID	Summary
PAC-3109	Velocity Certificate Checking Service (VCCS) installation process now includes a 30-day demo license that allows end-users access to VCCS prior to obtaining the permanent system license.
PAC-4748	<p>Added support for LED control for Wiegand and OSDP Readers. Requires SNIB3 version 4.1 and CCM version 8.3 or higher.</p> <p>Known limitation: Does not work for wireless readers.</p>
PAC-4758	Added support for MCZ Bonus LED color control for OSDP TS Readers.
PAC-4855	Improved customer experience related to licensing when moving to a new server. If no valid Velocity licenses are found on a machine, the temp license will be installed instead.
PAC-4918	Added support for Blink Reader LED/ScramblePad Red LED during relay override feature in Diagnostic Window.
PAC-4964	Added support for 48-Bit HID Corporate 1000 Card Format.
PAC-5065	Added predefined command "92 - Retrieve SNIB3 checksum error counts" to Diagnostic Window.
PAC-5239	Added support for alternate location for history archive files.
PAC-5453	Improved Velocity Updater to require the "Velocity Services" Windows Group (name may be customized) and provide user interface to allow specifying the name of this group if it does not exist when updating previous versions of Velocity that did not have this requirement.
PAC-5613	Added support for multiple network adapters in Port Search feature to discover SNIB2 and SNIB3s on multiple networks.
PAC-5741	Added Reader Control Groups report and Person Reader Control Group Summary report.

Velocity Improvements and Bug Fixes

Reference ID	Summary
PAC-2184	Fixed Enrollment manager Match code generation so that it is consistent when clicking on Card Type vs clicking Enter in the data field.
PAC-2618	Fixed issue that could prevent credentials from downloading to an online dial-up controller.
PAC-3269	Fixed issue where Velocity would log into controller more than once causing extra event traffic during login sequence.
PAC-3343	Improved operator feedback when enabling a port that was still in the process of shutting down by generating an event indicating the port open failure and the reason for the failure.
PAC-3385	Improved CCM firmware download process by detecting the firmware write-protect jumper status and warn the user if CCM is write-protected.
PAC-3835	Removed Load Setups from controller from New Controller form; removed Upload setups right click menu option from controllers; removed "Synchronize Velocity database with controllers" option from VSCM settings.
PAC-3911	Fixed issue where error occurs when applying Velocity update while Status Viewer is open.
PAC-3916	Fixed issue where Velocity Uninstall erroneously reported that .NET 3.5 is required to continue with uninstall.
PAC-3921	Fixed issue where events port/xbox offline (event 5094 and 5095) do not include Port or Xbox description.
PAC-3977	Fixed issue where closing Reader Control Group form causes an error while the form is open, if an attempt was made to open another Reader Control Group.
PAC-4007	Fixed issue where users are able to assign/unassign credentials while they are open by other operators.
PAC-4065	Disabled Windows Credentials properties frame when editing an existing operator since those can only be set while creating a new operator in Windows.
PAC-4071	Improved doors, inputs, and expansion input DOTL timer warning message and consistency in validating timer values.
PAC-4075	Fixed uninstaller error when TLS 1.0/1.1 is disabled on the server.
PAC-4200	Improved the PIN/Match conflict checking.

PAC-4232	Improved Velocity Web Service uninstall experience by removing firewall rule that was installed with Velocity Web Service.
PAC-4258	Fixed options on uninstaller prompt for deleting files and subfolders.
PAC-4259	Fixed issue with Velocity uninstaller not cleaning up ProgramData folder and registry.
PAC-4304	Added new event 1356 - "Report was started" before report is generated or archives are being restored.
PAC-4313	Enhanced Velocity uninstaller to prompt users to remove files located in the ProgramData folder.
PAC-4316	Fixed issue where after an incorrect password for the VelocityServices account was entered, and the VelocityServices local account exists on the local machine, the installer would continue after displaying a message indicating the password was incorrect.
PAC-4391	Fixed issue where credential reader control group and disable credential options don't propagate from linked credential template.
PAC-4397	Fixed issue with Velocity installer and updater where an error would occur if the SQL Server 'SA' account name had been renamed.
PAC-4450	Fixed credential match code generation process using UDF concatenated card data.
PAC-4451	Fixed an error that prevents all non-conforming UDF fields to show up in a warning dialog.
PAC-4486	Fixed an issue where an operator event does not occur when selecting "remove from group" for a person when logging is enabled.
PAC-4526	Fixed rare issue where the Velocity service was not properly releasing socket resources.
PAC-4574	Fixed an error while generating the "Controller Passback Zone Occupancy Set up" report and added missing fields.
PAC-4585	Changed the download process so that the Batch for offline controller is not shown in Download Monitor.
PAC-4602	Enhanced Velocity events generated by XMsg6 by modifying Event text and decoration to have better readability.
PAC-4666	Fixed an issue where event 4029 "Alarms active at reader" will not show up in Event Viewer if Credential ID is greater than 32767.

PAC-4669	Fixed VCCS configuration where non-admin roles that a user belongs to does not have permission for FICAM Validation profiles created by the user.
PAC-4683	Improved Who's Inside display/update performance on systems with thousands of user credentials.
PAC-4692	Fixed an issue where Badge only credentials are downloaded and cause download errors.
PAC-4693	Added logging to Velocity Client OCX-Technical Support File.txt before showing the client disconnect dialog.
PAC-4699	Improved Alarm 5903 description to include reason for failure instead of numeric error code.
PAC-4735	Fixed an issue in Graphics where deselecting an object in the canvas after viewing a dialog box would cause an error.
PAC-4747	Velocity updates will now install .NET Framework 4.8, if necessary.
PAC-4781	Fixed issue when unchecking Host Message CMD Responses in Controller Advanced reporting is not saved in controller settings.
PAC-4785	Fixed issue where "CMD Responses" controller advanced reporting setting is off and downloading controller configurations will turn it back on.
PAC-4787	Added "Unsupported Features" page to Velocity updater to identify legacy features that are no longer supported and will eventually be removed from the product.
PAC-4795	Added new Event 4057 - OSDP Reader Secure Channel Session Key Renewed (Fully secured Keys/Default Keys).
PAC-4797	Updated Velocity to use Microsoft MSOLEDBSQL database driver.
PAC-4798	Fixed issue where right-clicking Print Preview and Print Badge from the credential list grid on a guest or unassigned credential resulted in a blank image.
PAC-4804	Added controller timestamp information to the following events that previously displayed the service host time: 7044, 7045, 7046, 8006, 8009, 8010, 8012.
PAC-4814	Fixed issue where in some cases if a network connection to a port went offline and back online quickly the controller would not report an online event though it was online and functioning normally.
PAC-4816	Improved controller configuration download process where unused Zones (Access Zones, Master Access Zones, Time zones) are cleared out from the controller.

PAC-4837	Improved Velocity uninstaller where a reminder message box informing the user of some things that are not uninstalled which could help solve future problems if they migrate from Single Workstation to Domain Client Server installs.
PAC-4839	Fixed parsing issue that prevented the SQL Service dependency for SD Service to be set correctly when a registry key was manually changed to install an earlier version of Velocity on SQL default instance and added a “\” to the end of the instance name.
PAC-4854	Fixed an issue in Controller configuration download that prevented pre-existing Holidays to be downloaded.
PAC-4857	Fixed issue where Velocity Config->Person Template, EM->Add Person from Person Template, and Credential->Biometrics tab (if present) Help buttons did not display correct help page.
PAC-4862	Fixed range check issue in Velocity Service Controller Manager advanced settings - Escalate alarms & events interval UI to accept only 30 seconds or 1 - 59 minutes since service escalation event handling timer interval is a multiple of 30 seconds.
PAC-4876	Fixed FICAM transaction log report to show complete UUID value.
PAC-4877	Fixed an issue where uninstalling some integrations would remove shared files (NLog.dll and NLog.config) causing errors running Velocity.
PAC-4882	Fixed issue in the Roles component where operator Event 1099 was not generated when operator(s) were removed from Roles.
PAC-4913	Unsupported legacy DVR/NVR and Central Station modules have been removed from the Velocity UI starting in 3.8.5. Contact Identiv if you still require these modules.
PAC-4917	Changed the Velocity SCM ‘Cold-start/CCM Replacement Options’ to be ON by default.
PAC-4919	Improved Batch Viewer by adding more command descriptions.
PAC-4956	Fixed an issue where the installing account did not have appropriate permissions the installer would not get past the Security Settings page.
PAC-4968	Fixed an issue where a person added to custom Person Group is not being recorded in Operator Log report when Detail Logging is enabled.
PAC-4970	Changed prompt to restart Velocity DIGI*TRAC Network Service and Velocity Cert Check Service when "Degraded mode timeout" is changed in preference because it requires both services to be restarted.

PAC-4971	Fixed issue in VCCS update where Alarm 52541: "Certificate service is offline" was not returned to normal by Event 52540 "Certificate service is online".
PAC-4984	Fixed issue where momentary access generates a database batch and if the controller was offline, the batch would stay queued in Download Monitor.
PAC-4985	Fixed issue where a double sided badge would print 4 cards instead of 2.
PAC-5008	Fixed issue where "Occupancy options apply to this zone" dropdown list in controller passback properties became out of order.
PAC-5022	Fixed an issue where Diagnostics Utility does not report XMsg6 CMD Type or Tag information correctly.
PAC-5036	Improved the wording on the alarm and event related to FICAM Degraded Mode state reporting.
PAC-5044	Added operator audit Event 6090 for canceling a batch and enhanced the existing "Download canceled" Event 6005 to include batchID.
PAC-5048	Improved VCCS to read the database provider from the registry to support newer database providers.
PAC-5049	Added a new software Event 1358 "DIGI*TRAC connection restored - resuming normal operation" when DIGITRAC service recovers from a connection loss.
PAC-5057	Changed the database provider to use the newest Microsoft recommended MSOLEDBSQL provider. The change will only be applied if the provider installation is successful.
PAC-5059	Fixed issue where CALL_API DOORFUNCTION MOMENTARY_ACCESS batch for offline controller stays in Download Monitor.
PAC-5097	Fixed issue where FASCN would sometimes display incorrectly when Invalid code reporting is disabled (see CCM ticket PAC-4872).
PAC-5100	Fixed issue where right-click display credential on Access Grant when person's name has apostrophe.
PAC-5104	Updated Velocity SCM database settings to redirect users to use the new VelocitySetDBProperties.exe utility to set Velocity SQL Server/Database names and App Role password in Registry. This new tool prevents Virtual Registry problems caused by Velocity operators that have insufficient Windows permission to correctly update the Windows Registry.
PAC-5105	Improved Velocity installer to support custom domain group names.

PAC-5106	Fixed issue where, if a user had multiple sets of certificates enrolled, if any certificate expired all credentials for that user would be disabled instead of just the active credentials for the user.
PAC-5115	Updated Who's Inside if command 98*44 is used in the Diagnostic Window to forgive users and display Event 8088 "All users in Zone % forgiven".
PAC-5117	Improved Velocity installer logging to make troubleshooting easier.
PAC-5122	Improved user experience with Velocity installer when encountering account permission issues.
PAC-5127	Fixed issue with Velocity updater where CAKUpdater.exe would fail to execute if there is missing certificate data in the database user record.
PAC-5149	Add .config files to the standard suite of files to be included in a System Report.
PAC-5157	Fixed issue after cold starting controller where controller configuration and credentials download does not automatically download.
PAC-5160	Added new events to indicate firmware download status.
PAC-5161	Added option to reboot SNIB3 and Warm-Start/Cold-Start the CCM from the Diagnostic Window.
PAC-5164	<p>Velocity 3.8.5 enforces a minimum SQL Server version of 2017.</p> <p>This is to keep in sync with Microsoft SQL versions still under mainstream support.</p> <p>Reference "Life Cycle Dates" section of: https://docs.microsoft.com/en-us/sql/sql-server/end-of-support/sql-server-end-of-support-overview?view=sql-server-ver16</p>
PAC-5178	Improved Velocity installer to allow installation when SQL Browser Service is not running.
PAC-5186	Updated "Reader with Details" report to include custom LED Colors if applicable.
PAC-5190	Fixed issue in Roles which could cause empty records in the PersonTemplates table.
PAC-5200	Fixed issue where the PIV Employee Affiliation field was not populating the UDF grid during enrollment process.
PAC-5212	Removed "Controller Initialization Method" frame in New Controller dialog since "Use database default setups" was the only available choice.

PAC-5225	Simplified file migration to ProgramData by granting permission on folder for Velocity groups specified during Velocity update instead of prompting.
PAC-5230	Fixed issue where database schema permissions were incorrectly assigned when installing/updating using custom group names.
PAC-5239	Support alternate location for history archive files.
PAC-5243	Fixed issue where incorrect imported Card Mapping caused an error when saving door properties.
PAC-5295	Fixed issue where failed batch would re-appear if Download Monitor was closed and re-opened.
PAC-5306	Fixed problem where in rare cases the Digitrac Service would not be able to connect to a networked SNIB due to Winsock Error 10055.
PAC-5324	Added support for showing the controller's degraded mode status.
PAC-5328 PAC-5717	Updated SystemReport tool to request additional information to help Identiv Tech Support better diagnose customer issues.
PAC-5329	Fixed issue when the remote client license limit had been reached the local Velocity client on the server could not connect and SDK based connections would be rejected.
PAC-5346	Fixed issues updating and removing Credential templates: <ul style="list-style-type: none"> • Updating a credential template that incorrectly updated linked Badge Only credentials. • Removing multiple functions from credential templates that are linked to credentials.
PAC-5385	Fixed issue with Event Viewer Custom Filters not filtering as expected.
PAC-5387	Added new Xbox events: <ul style="list-style-type: none"> • Event 7052 for CCM not responding status. • Event 7051 for Command to reset SNIB3/CCM failed since CCM firmware download is in progress.
PAC-5392	For Velocity 3.8.5 the updater displays a list of legacy features that are no longer supported and whether they are in use. If an unsupported legacy feature is in use the update will not continue and the user is directed to contact Identiv Technical Support to re-enable the unsupported feature that is in use.

PAC-5406	Fixed an issue in the Velocity Web Client where Photo Call-Up could hang if there was an invalid picture in the badge. Now if an invalid picture is detected the web Photo Call-Up Window will show the default template.
PAC-5428	Fixed issue with data validation where an invalid keypad code was manually entered into the database which caused the CCM to go offline when the credential was downloaded.
PAC-5430	Changed Velocity SCM diagnostic settings for PE and HCS debug levels to be enabled and set to level 3 by default. If they are lower than 3 with default file size set to 20MB and Number of days to keep set to 7 unless otherwise specified in the Velocitydebug.ini file.
PAC-5438	Improved error logging when SQL Server name in Registry is incorrect or unreachable.
PAC-5456	Improved Velocity update experience by allowing the operator to attempt to fix and/or continue the update process if non-critical errors are encountered.
PAC-5463	Velocity updater will now enforce a minimum SQL version. Reference "Life Cycle" in: https://docs.microsoft.com/en-us/sql/sql-server/end-of-support/sql-server-end-of-support-overview?view=sql-server-ver16
PAC-5471	Improved error handling when Velocity SCM is not able to contact the domain to enumerate OUs.
PAC-5485	Improved controller message processing on busy networks where controller responses are fragmented.
PAC-5491	Changed the Silent Reconnect option to be enabled by default. This allows controller communication to continue uninterrupted when short-lived network disruptions occur. Previously this option had to be enabled in the PollingEngine.ini file by setting <code>snib2_attemptsilentsocketreconnect enabled = 1</code>
PAC-5507	Fixed issue where the VCCS update process would not complete when using custom group names.
PAC-5520	Improved performance when loading Status Viewer on large systems.
PAC-5522	Improved the Velocity installer's 'Data Only' install option to allow manual input of the SQL instance name. The installer has been refactored to apply the database permissions when installing the Velocity application on the application server and the restart service warning is no longer displayed after completing the Data Only installation.

PAC-5523	<p>Fixed Velocity installer Wizard navigation issues that could cause errors if the Back button was used.</p> <p>Also improved error dialogs to provide more detailed information and possible causes.</p>
PAC-5526	Improved Velocity installer handling of custom groups on existing SQL Server configurations.
PAC-5570	Fixed issue where Velocity update prompts for "SysAdmin privileges" multiple times.
PAC-5574	Fixed issue in the Application Network and Security section of the Velocity installer where incorrect data would cause the installer to exit without giving the operator an opportunity to fix the mistake.
PAC-5575	Fixed issue where DigiTrac Service would sometimes not shutdown cleanly with very large controller populations.
PAC-5592	Fixed issue authenticating User accounts when custom group names are used.
PAC-5594	Fixed issue where Polling Engine log files would not roll over resulting in very large log files.
PAC-5619	Fixed issue with unattended installer to properly handle custom group names.
PAC-5632	Improved refresh rates on Status Viewer performance.
PAC-5641	Fixed issue in Status Viewer where sorting by the Xbox Status Rev column would cause an error message to be displayed if one or more devices had never come online.
PAC-5654	Fixed issue where cryptic error details were displayed if the SQL Server Management Studio installation failed.
PAC-5660	Improved message description to provide more details on why Velocity SCM cannot open on some client configurations.
PAC-5663	Added support for new alarms when SNIB3 to CCM command fails and maximum checksum errors have been exceeded. These alarms can be helpful in identifying failing hardware components.
PAC-5673	Improved the message displayed when an unsupported version of SQL Server is detected to help guide the operator to update their system.
PAC-5678	Improved error handling on network errors that resulted in a large number of exceptions being logged to log files.

PAC-5686	Fixed issue with the Who's Inside window where it did not update correctly on credential access.
PAC-5689	Improved performance of the DigiTrac Service which leads to smoother system-wide performance on large busy sites.
PAC-5704	Improved domain account verification in various network configurations.
PAC-5707	Fixed issue where the logger for CCM firmware downloads incorrectly creates the backup log files to windows\SysWow64 folder.
PAC-5719	Fixed issue where Credential Properties>>Function tab, selecting "Function Category" as "Password", "Function" is displayed as "Nationality Name" instead of "System".
PAC-5725	Fixed issue where sometimes Port/Xbox/Controller disabled events fail to display in the Event Window.
PAC-5726	Fixed issue where in some circumstances the Security Domain Service did not detect that the DigiTrac Service reconnected.
PAC-5727	Fixed issue where DigiTrac Service tried to reconnect to the Security Domain Service too often which resulted in an unnecessary amount of logging to log files.
PAC-5737	Fixed issue where a malfunctioning SNIB3 sent an invalid message to Velocity which resulted in loss of communication to the controller until the Port was disabled and re-enabled.
PAC-5738	Improved port connection processing during DigiTrac Service startup.
PAC-5740	Improved System Report output file to include the name of the machine it was generated on and what type of machine it is (Server/Client).
PAC-5742	Fixed issue where VCCS may not start when custom groups are used.
PAC-5756	Improved the DigiTrac Service shutdown processing for large controller populations by reducing the time it takes to stop the service if the service is shutdown before all controllers have come online from a previous service restart.
PAC-5761	Fixed issue in Security Domain Service where service may crash when a large number of clients are continuously connecting and disconnecting (due to network issues).
PAC-5763	Fixed issue where the Display Credential Template may have included a plain photo that does not update for the user image.

PAC-5765	Fixed issue where Installer attempts to add the Services Account to the Services Group if it is already a member.
PAC-5785	Fixed issue where Security Domain Service does not disconnect from all clients when it loses connection to SQL Server.
PAC-5786	Removed obsolete DIGI*Net events from the Email Writer.
PAC-5825	Fixed an issue where the Event Filter Group does not sort by name in ascending order.
PAC-5826	Improved Custom Zone Group properties window selected and unselected list to list controller names in alphabetical order by default and sortable by column.
PAC-5832	Fixed issue where user is not able to add new operators by using the "Find" button in the Operators component when Custom Groups are enabled.
PAC-5842	Fixed issue in Velocity License Manager (VLM) where a license had an expiration date of 1/31/0001.
PAC-5843	Fixed issue where customers may NOT be able to enter a Velocity License into License Manager due to a previously deactivated license.
PAC-5848	Fixed issue where a System Reports would fail to be generated if there were several thousand log files.
PAC-5855	Removed SNIB Configuration option from Diagnostic Window as this feature was not well known and not used. Port Search feature can be used instead.
PAC-5868	Fixed issue that could cause Security Domain Service to crash on systems that have very large controller populations and have a large number of clients open and had the Status Viewer open on some clients.
PAC-5869	Fixed issue where Velocity License Manager (VLM) incorrectly reported a demo license trial had ended after the valid license had expired.
PAC-5879	Fixed issue where VelocityDebug_log.txt was growing unbounded.
PAC-5880	Fixed issue where CommandSet table was not cleaned up properly.
PAC-5905	Fixed an issue where forgiving all users from a Zone Group level did not work.

Known Issues and Behaviors

Reference ID	Summary
PAC-3223	<p>Issue: "Velocity Security Domain version mismatch" error displays during Client auto upgrade from 3.7 SP3 to 3.8.3.</p> <p>Workaround: When updating from 3.6 or 3.7 to 3.8.0, or higher you must manually run the update program on each client.</p>
PAC-3422	<p>Behavior: Note about Download Monitor behavior when Credential Database is located on downstream SNIB3 controllers:</p> <p>Credential downloads to SNIB3 are a two-step process:</p> <ol style="list-style-type: none"> 1) Transfer all credential data as a single file 2) SNIB3 processes each credential record <p>Therefore when downloading a large number of credentials to a downstream SNIB3 the batch in the Velocity Download Monitor will remain in the "Active" state (with zero commands processed) while data is being transferred to the downstream SNIB3. For large downloads this may take several minutes.</p> <p>Once the data transfer is complete the batch status will update for every 100 records processed by the downstream SNIB3.</p>
PAC-3567	<p>Issue: Updating SNIB3 firmware from 02.06.1045 fails in XNET 3 / TLS mode and may also cause the DigiTrac Service to go offline.</p> <p>Workaround: Change communication to XNET 2 (AES) and then update the SNIB3 firmware. Once updated, the port can be switched back to XNET 3.</p> <p>To revert a SNIB3 currently communicating in XNET 3 (TLS) do the following:</p> <ol style="list-style-type: none"> 1. Disable the Port in Velocity 2. Change the Velocity Port to XNET 2 and check Reset Encryption option 3. Enable (turn ON) the Reset Encryption DIP Switch on the SNIB3 4. Cycle power to the controller 5. Enable the Port once the SNIB3 connects 6. Perform SNIB3 firmware update <p>After the firmware update completes you may switch the Velocity Port back to XNET 3 / TLS if desired.</p>

<p>PAC-4861</p>	<p>Behavior: Bosch IDS panel will not come online if Bosch panel date is set to years in the past.</p> <p>The symptom of this issue is in the Velocity event viewer you will see sequences like the following:</p> <p>2/25/2022 6:50:57 PMIDS Connection to Panel Bosch failed: DataOutOfRange IDS.001.01 10694</p> <p>Turning on Debug level logging (via integrations\IDS\nlog.config) shows more detail on the error as shown below:</p> <p>2022-03-01 11:35:21 DEBUG 14 BoschPanel.<subscribeForMessageBusEvents >b__152_3 SessionConnectFailedEvent: Exception: Bosch.Security.Sdk.Interfaces.ConnectionFailedException: The profile is not valid at this time: Valid date range is 2021-11-21 - 2052-03-01. Panel time is 2020-11-03 02:40:00.</p>
<p>PAC-5680</p>	<p>Issue: If Velocity 3.8.5 is installed (or an existing system is updated to 3.8.5), and later an integration is installed (current integrations as of 3.8.5 release), and the customer is using Custom Group Names, then if that integration added new sql objects, they may not have the appropriate permissions applied to them due to the integration installer scripts not being able to determine the custom group name.</p> <p>Workaround: Update Velocity after installing the integration so that the Velocity update will apply the correct permissions on all SQL objects.</p> <p>Or</p> <p>Manually apply permissions. Contact Identiv Technical Support for a script that can be customized for your system to apply the needed permissions.</p>
<p>PAC-5834</p>	<p>Issue: Velocity Client errors may occur if the computer enters Sleep mode.</p> <p>If the Velocity client loses its connection to the SQL Server various errors may occur.</p> <p>Workaround: Restart the Velocity Client</p>

PAC-6008	<p>Behavior: Searching for SNIB2/3 over VPN does not work. This is because normally VPN networks do not have a Default Gateway so broadcast messages are not routed.</p> <p>Velocity 3.8.5 port search has been enhanced to include an IP Scan feature to find SNIB3 with the latest firmware on VPN networks.</p>
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Deprecated Features

The following features will not be supported in future versions of Velocity.

Feature / Function	Release Deprecated	Removed From Release
Dial-Up support for controllers	3.8.3	3.8.5
Legacy DVR	3.8.3	3.8.5
Legacy Bosch Central Station Receiver	3.8.3	3.8.5
Edge Evo integration	3.8.4	3.8.5
New Controller Load setups from controller	3.8.4	3.8.5
VSCM Settings Advanced Synchronize Velocity database with controllers	3.8.4	3.8.5
Credentials Biometric Tab	3.8.4	3.8.5