Velocity Certificate Checking Service 3.6.6.184 Installation Guide & Release Notes

Last updated August 14, 2017.

Overview

This document provides information about version 3.6.6.184 of the Velocity Certificate Checking Service, which is a key software component of Identiv's FICAM Solution. (This version corresponds to the Velocity 3.6 SP2.1 release.) After you license and install the Velocity Certificate Checking Service, it extends the Velocity user interface to include numerous features which are documented in the main Velocity context-sensitive help system. Be sure to read the **FICAM Solution** section of that help system for important information about how to configure and use Identiv's FICAM Solution.

NOTE: You must purchase a license to use this add-on software.

This document also includes a section about Installing and Licensing this service. After that, it describes the New Features, the Bug Fixes , and the Known Limitations in this release (relative to the previous 3.6.5 release).

FICAM is the acronym for Federal Identity, Credential, and Access Management, which is an architectural roadmap and implementation guide designed to help U.S. federal government agencies improve the security, cost, and interoperability of providing their services. Identiv's FICAM Solution includes the following hardware and software components:

- The 3.6 SP2.1 release of the **FED Unlimited Edition** of Velocity (running on a Windows server and Windows client PCs)
- The Velocity Certificate Checking Service (running on a Windows server)
- M2, M8, or Mx controllers
- A SNIB3 communications expansion board, for each controller running in FICAM mode
- An RS-485 Readers Expansion Board (RREB), for each controller running in FICAM mode
- Identiv's uTrust TS Government readers (which are FICAM-capable OSDP/RS-485 card readers), or Veridt's Stealth Bio or Stealth Dual readers
- To enroll PIV, PIV-I, or TWIC cards into Velocity, you need a FICAM-capable smart card reader with contacts; to do fingerprint authentication during enrollment, your enrollment station also needs to include a fingerprint scanner

For most customers, Identiv's FICAM Solution enables you to upgrade an existing Velocity system, instead of having to purchase and install a new physical access control system. Even when FICAM mode is enabled, the other components of your existing Velocity system will continue to function as before. This enables a smooth migration as you replace old readers and enroll new credentials.

The following table shows the compatible versions of the software components in Identiv's FICAM Solution, corresponding with the Velocity 3.6 SP2.1 release.

FICAM Software Component:	Compatible version for Velocity 3.6 SP2.1
CCM firmware	7.5.70.12
SNIB3 firmware	2.02.0004
uTrust TS Government reader firmware (TRN file)	2.1.315
Velocity	03.06.006.1128
Velocity Certificate Checking Service	3.6.6.184

Information about the hardware components of Identiv's FICAM Solution is available in the **DIGI*TRAC Systems Design and Installation Guide**. (Additional information about Identiv's FICAM Solution is available at the following Web page: https://www.identiv.com/products/physical-access/hirsch-government-ficam-solution.)

Installing and Licensing this Service

Part of setting up Identiv's FICAM Solution involves installing and licensing the Velocity Certificate Checking Service, which consists of the following three tasks:

1. Contact Identiv to purchase the Velocity Cert Check Service, and then install it (on the same computer as your Velocity Server).

2. Obtain a license for the Velocity Cert Check Service from Identiv.

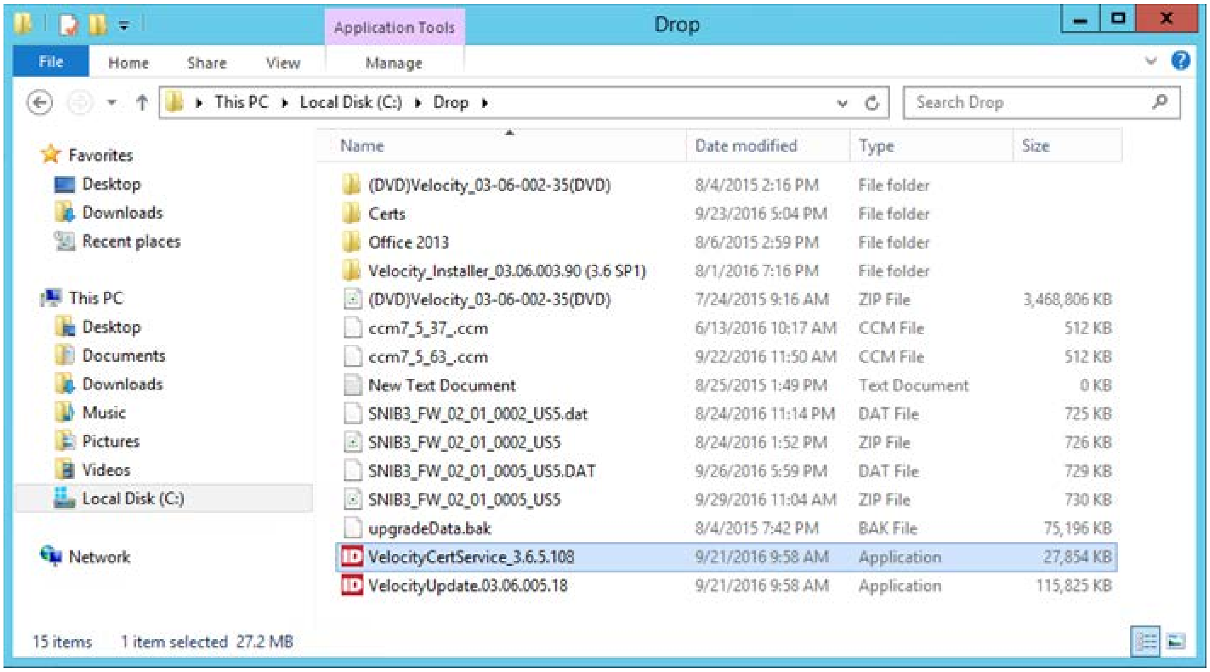
3. Add the license key for the Velocity Cert Check Service to the Velocity License Manager.

After installing the service, you must also perform a few configuration and setup tasks.

Task 1: Contact Identiv to purchase the **Velocity Cert Check Service**, and then install it.

Step 1. Obtain the installation file for the Velocity Cert Check Service from Identiv, and copy it to your Velocity Server.

Step 2. Locate the installation file (such as VelocityCertService_3.6.6.184.exe), then right-click on it and choose the "**Run as administrator**" command from the pop-up menu.



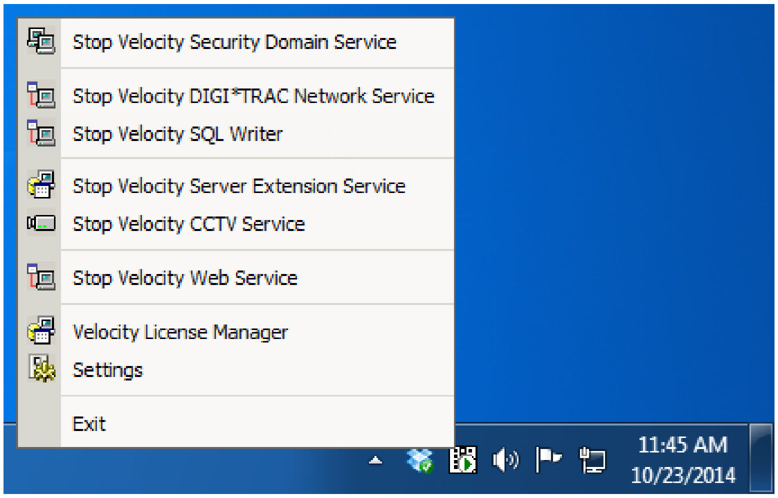
Name	Date modified	Type	Size
(DVD)Velocity_03-06-002-35(DVD)	8/4/2015 2:16 PM	File folder	
Certs	9/23/2016 5:04 PM	File folder	
Office 2013	8/6/2015 2:59 PM	File folder	
Velocity_Installer_03.06.003.90 (3.6 SP1)	8/1/2016 7:16 PM	File folder	
(DVD)Velocity_03-06-002-35(DVD)	7/24/2015 9:16 AM	ZIP File	3,468,806 KB
ccm7_5_37_.ccm	6/13/2016 10:17 AM	CCM File	512 KB
ccm7_5_63_.ccm	9/22/2016 11:50 AM	CCM File	512 KB
New Text Document	8/25/2015 1:49 PM	Text Document	0 KB
SNIB3_FW_02_01_0002_US5.dat	8/24/2016 11:14 PM	DAT File	725 KB
SNIB3_FW_02_01_0002_US5	8/24/2016 1:52 PM	ZIP File	726 KB
SNIB3_FW_02_01_0005_US5.DAT	9/26/2016 5:59 PM	DAT File	729 KB
SNIB3_FW_02_01_0005_US5	9/29/2016 11:04 AM	ZIP File	730 KB
upgradeData.bak	8/4/2015 7:42 PM	BAK File	75,196 KB
VelocityCertService_3.6.5.108	9/21/2016 9:58 AM	Application	27,854 KB
VelocityUpdate.03.06.005.18	9/21/2016 9:58 AM	Application	115,825 KB

NOTE: If your Velocity system is already running the previous certificate checking service provided by Identiv's Professional Services Group, the installer will automatically upgrade your system to use the new Velocity Cert Check Service, and your existing configuration settings will be migrated from the config.xml file into the Velocity database.

Step 3. Start the Velocity Cert Check Service, to populate the Velocity database with the Validation Engine's System ID (license key).

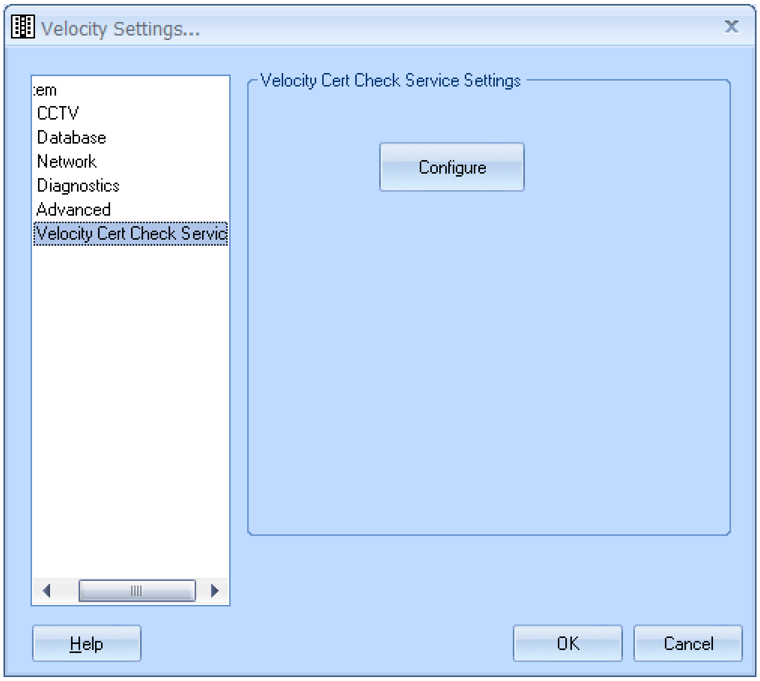
Task 2: Obtain a license for the **Velocity Cert Check Service** from Identiv.

Step 1. Right-click on the icon for Velocity's Service Control Manager (in the Windows tray), and choose **Settings**.


Stop Velocity Security Domain Service
Stop Velocity DIGI*TRAC Network Service
Stop Velocity SQL Writer
Stop Velocity Server Extension Service
Stop Velocity CCTV Service
Stop Velocity Web Service
Velocity License Manager
Settings
Exit
11:45 AM
10/23/2014

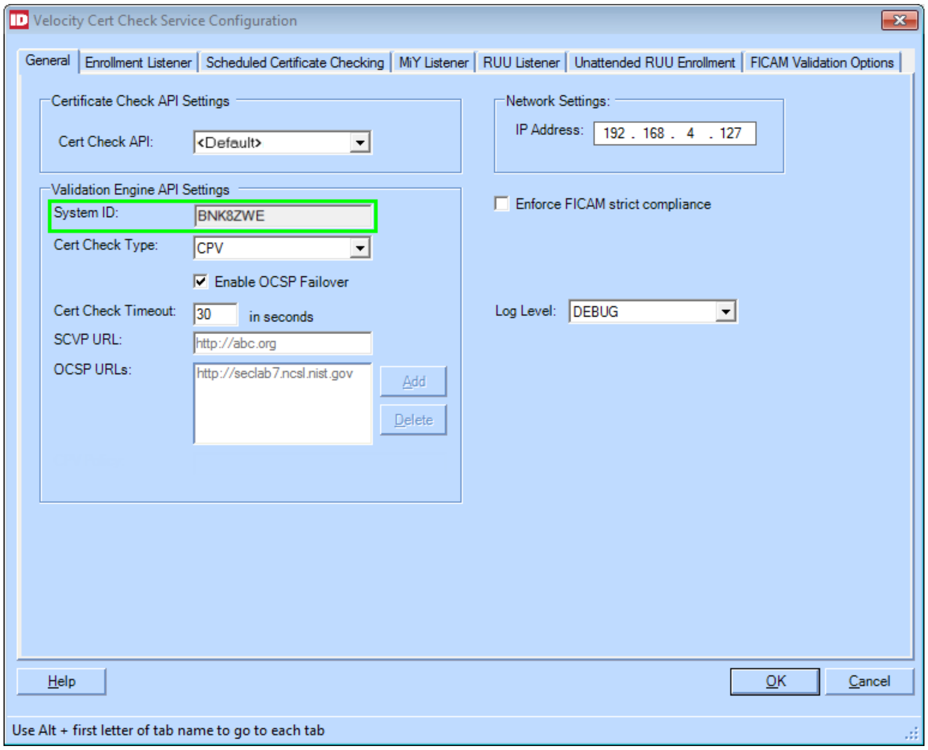
Step 2. In the resulting **Velocity Settings** dialog:

A. Click on the **Velocity Cert Check Service** entry in the left-hand pane.



B. On the resulting **Velocity Cert Check Service Settings** page, click on the **Configure** button.

Step 3. On the General page of the resulting **Velocity Cert Check Service Configuration** dialog, copy the value in the **System ID** field to the Windows Clipboard, then paste it into an email message.


Velocity Cert Check Service Configuration
General
Enrollment Listener
Scheduled Certificate Checking
MiY Listener
RUU Listener
Unattended RUU Enrollment
FICAM Validation Options
Add
Delete
Help
OK
Cancel

Certificate Check API Settings

Cert Check API: <Default>

Network Settings:

IP Address: 192 . 168 . 4 . 127

Validation Engine API Settings

System ID: BNK8ZWE

Cert Check Type: CPV

☑ Enable OCSP Failover

Cert Check Timeout: 30 in seconds

SCVP URL: http://abc.org

OCSP URLs: http://seclab7.ncsl.nist.gov

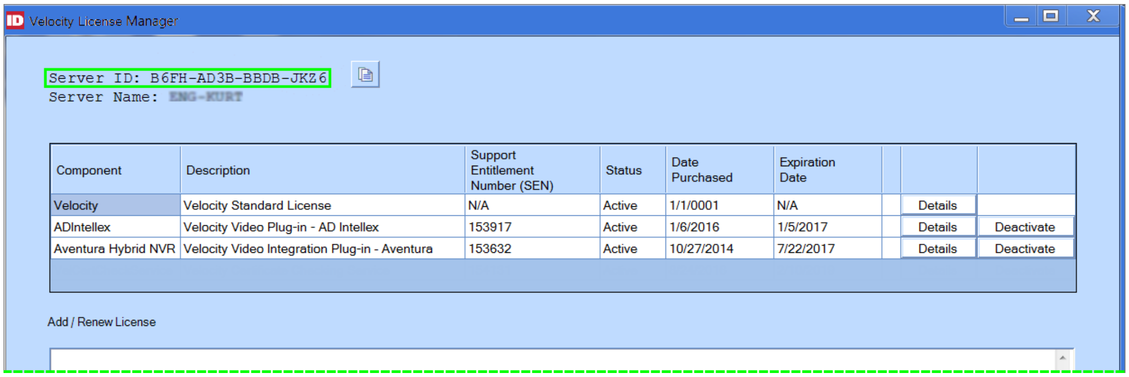
☐ Enforce FICAM strict compliance

Log Level: DEBUG

Use Alt + first letter of tab name to go to each tab

Step 4. Right-click on the icon for Velocity's **Service Control Manager** (in the Windows tray), and choose **Velocity License Manager**.

Step 5. On the resulting **Velocity License Manager** window, copy the value of the Velocity **Server ID** field (on the top line) to the Windows Clipboard, then paste it into the email message.



Server ID: B6FH-AD3B-BBDB-JKZ6

Server Name: [redacted]

Component	Description	Support Entitlement Number (SEN)	Status	Date Purchased	Expiration Date			
Velocity	Velocity Standard License	N/A	Active	1/1/0001	N/A		Details	
ADIntellex	Velocity Video Plug-in - AD Intellex	153917	Active	1/6/2016	1/5/2017		Details	Deactivate
Aventura Hybrid NVR	Velocity Video Integration Plug-in - Aventura	153632	Active	10/27/2014	7/22/2017		Details	Deactivate

Add / Renew License

Step 6. Compose your email message so that:

A. It is addressed to **vlas@identiv.com**.

B. It has a Subject such as "**License Request for Velocity Cert Check Service**".

C. The Body includes the **System ID** value and the **Server ID** value.

Step 7. Send the email message.

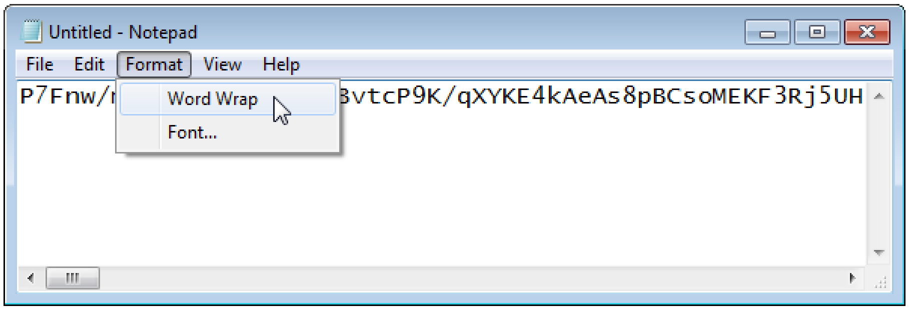
Step 8. Close the **Velocity License Manager**.

Task 3: After Identiv sends you a license key for the **Velocity Cert Check Service**, add it to the Velocity License Manager.

Step 1. Right-click on the icon for Velocity's **Service Control Manager** (in the Windows tray), and choose **Velocity License Manager**.

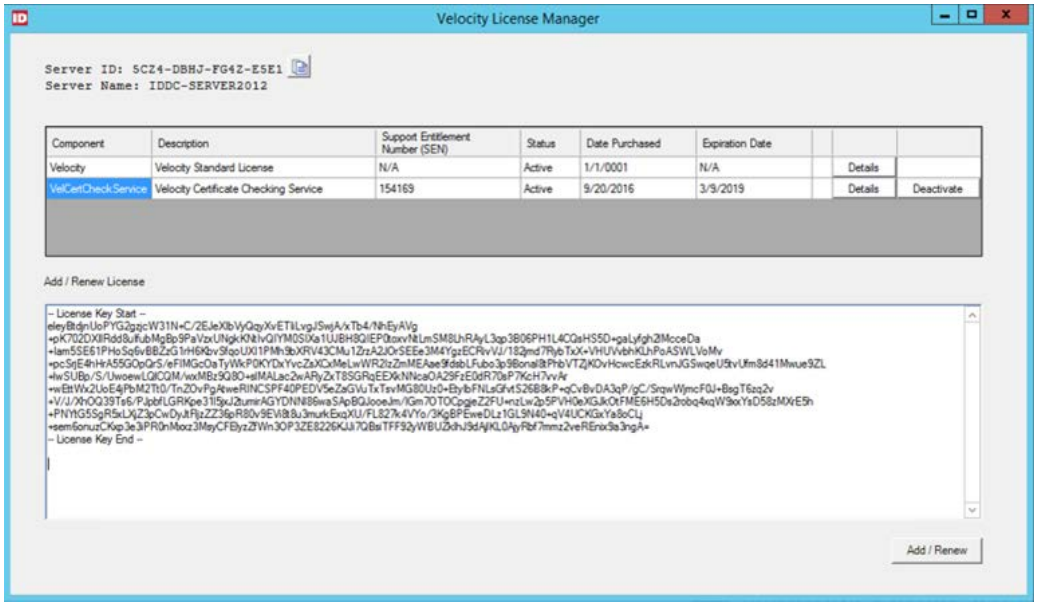
Step 2. Copy the license key (which is a large block of letters and numbers) in the email message from Identiv to the Windows Clipboard.

NOTE: If your Velocity Server is on a different computer, paste your license key into the Windows Notepad, save it as a text file, and transfer it between computers using a USB drive. Make sure that the word wrap option is turned off, which is indicated by the absence of a check mark in front of the **Format ▶ Word Wrap** command.



```
P7Fnw/r                3vtcP9K/qXYKE4kAeAs8pBCsoMEKF3Rj5UH
```

Step 3. On the **Velocity License Manager** window, paste the license key into the **Add / Renew License** field, then click the **Add / Renew** button.



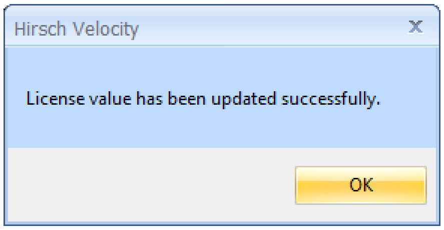
Server ID: 5CZ4-DBHJ-FG4Z-E5E1
Server Name: IDDC-SERVER2012

Component	Description	Support Entitlement Number (SEN)	Status	Date Purchased	Expiration Date			
Velocity	Velocity Standard License	N/A	Active	1/1/0001	N/A		Details	
VelCertCheckService	Velocity Certificate Checking Service	154169	Active	9/20/2016	3/9/2019		Details	Deactivate

Add / Renew License

```
-- License Key Start --
eleyBtdjnUoPYG2gzjcW31N+C/2EJeXlbVyQqyXvETliLvgJSwjA/xTb4/NhEyAVg
+pK702DXllRdd8ufubMgBp9PaVzxUNgkKNtlvQIYM0SlXa1UJBH8QIEP0toxvNtLmSM8LhRAyL3qp3B06PH1L4CQsHS5D+gaLyfgh2lMcoeDa
+lam5SE61PHoSq6vBBZzG1rH6KbvSfqoUXI1PMh9bXRV43CMu1ZrzA2JOrSEEe3M4YgzECRivVJ/182jmd7RybTxX+VHUVvbhKLhPoASWLVoMv
+pcSqE4hHrA55GOpQrS/eFIMGcOaTyWkP0KYDxYvcZaXCxMeLwWR2lzZmMEAae9fdsbLFubo3p9Bonal8tPhbVTZjKOvHcwcEzkRLvnJGSwqeU5tvUfm8d41Mwue9ZL
+lwSUBp/S/UwoewLQlCQM/wxMBz9Q8O+elMALac2wARyZxT8SGRqEEXkNNca0A29FzE0dR70sP7KcH7vvAr
+wEttWx2UoE4jPbM2Tt0/TnZOvPgAtweRINCSPF40PEDV5eZaGVuTxTsvMG80Uz0+EtylbFNLsGfvtS26B8kP+qCvBvDA3qP/gC/SrqwWjmcF0J+BsgT6zq2v
+V/J/XhOQ39Ts6/PJpbfLGRKpe31l5jxJ2tumirAGYDNNl86waSApBQJooeJm/lGm7OTOCpgjeZ2FU+nzLw2p5PVH0eXGJkOtFME6H5Ds2robq4xqW9ixYsD58zMXrE5h
+PNYtG5SgR5xLXjZ3pCwDyJtRjzZZ36pR80v9EVi8t8u3murkExqXU/FL827k4VYo/3KgBPEweDLz1GL9N40+qV4UCKGxYa8oCLj
+sem6onuzCKxp3e3iPR0nMxoz3MsyCFElyzZfWn3OP3ZE8226KJJi7QBsiTFF92yWBUZkdhJ9dAjIKL0AjyRbf7mmz2veREnix9a3ngA+
-- License Key End --
```

The following dialog should be displayed:



License value has been updated successfully.

Step 4. Click the **OK** button to close this dialog, and then close the Velocity License Manager.

Note that there are many other steps you must perform when upgrading an existing Velocity system to be FICAM-capable. Be sure to see the **FICAM Solution > Checklist for Installing and Configuring Identiv's FICAM Solution** topic in the Velocity help system.

New Features

BIO Authentication

With Velocity 3.6 SP2.1, Identiv's FICAM Solution now supports BIO authentication of a fingerprint using Veridt's Stealth Bio reader. The reader must be connected to a Hirsch controller using OSDP/RS-485, in a Velocity system running in FICAM mode.

To manage the biometric authentication, the following three options have been added to the **FICAM Validation Options** page of the **Velocity Cert Check Service Configuration** dialog:

Option (in group)	**Description**
Fingerprint Required (in Required Data)	When this option is checked, the Fingerprint Object container is required to be present on the card, and fingerprint verification will be performed when the card is enrolled in Velocity (to ensure the person's live fingerprint matches what is stored in the card).
Fingerprint Signature Check (in General Checks)	When this option is checked, verify that the signature found in the Fingerprint object is correct (using the certificate found in the CHUID).
Certificate in Fingerprint (in Certificate PKI Checks)	When this option is checked, the fingerprint container's certificate will be validated (if present).

Fingerprint Authentication During Enrollment

By default, the **Fingerprint Required** option (on the **FICAM Validation Options** page of the **Velocity Cert Check Service Configuration** dialog) is checked, so fingerprint verification will be performed when the card is enrolled in Velocity. This ensures that the person's live fingerprint matches what is stored in the card. To do this, your enrollment station needs to include a fingerprint scanner.

Card Authentication Certificate Option

The **Card Authentication Cert Required** option has been added to the Required Data group on the **FICAM Validation Options** page of the **Velocity Cert Check Service Configuration** dialog. This option is checked by default, which means that a card authentication certificate is required to be present on the card. (The option can be unchecked to remove this requirement, which might be necessary to continue supporting non-PIV cards.)

Card Challenge PIV Auth Option

The **Card Challenge PIV Auth** option has been added to the General Checks group on the **FICAM Validation Options** page of the **Velocity Cert Check Service Configuration** dialog. This option is checked by default, which means that the card's PIV Authentication certificate must pass a dynamic challenge-response authentication. (The option can be unchecked to remove this requirement, which will allow the card to be enrolled even if the PIV Auth authentication fails.)

Card Challenge Card Auth Option

The **Card Challenge Card Auth** option has been added to the General Checks group on the **FICAM Validation Options** page of the **Velocity Cert Check Service Configuration** dialog. This option is checked by default, which means that the card's Card Authentication certificate must pass a dynamic challenge-response authentication. (The option can be unchecked to remove this requirement, which will allow the card to be enrolled even if the Card Auth authentication fails.)

Bug Fixes

Reference ID	Bug	Description
VCCS-60	Incorrect spelling or capitalization on the VCCS Configuration dialog.	The **Velocity Cert Check Service Configuration** dialog had a misspelled word and some incorrectly capitalized phrases on the **FICAM Validation Options** page. The previous name of the VCCS also appeared on the **Scheduled Certificate Checking** page. These cosmetic issues have been fixed.
VCCS-66	User-specified OCSP URLs were being ignored.	The **OCSP URLs** specified on the **General** page of the **Velocity Cert Check Service Configuration** dialog were not being used during the PKI checks for certificates. This issue has been fixed.
VCCS-68	The MiY Listener and the RUU Listener components were not working.	The **MiY Listener** and the **RUU Listener** components (which are part of an earlier version of the Velocity Cert Check Service that was created by Identiv's Professional Services Group for a few early adopters) had not been updated to communicate properly with the newer version of the VCCS. This issue has been fixed.
VCCS-69	The New User Person Group field should have been a string.	The **New User Person Group** field on the **Unattended RUU Enrollment** page of the **Velocity Cert Check Service Configuration** dialog was an integer, when it should have been a string. This issue has been fixed.
VCCS-74	Unattended RUU Enrollment was not working because it used old string values.	The **Unattended RUU Enrollment** feature was not working properly, because it had not been updated with the new string values for certificate types used by the VCCS. This issue has been fixed.

Known Limitations

VCCS-61: After licensing VCCS, you must restart Velocity before you are able to enable FICAM mode.

After licensing the Velocity Cert Check Service, the **Enable FICAM Mode** option on the **Velocity Preferences** dialog remains disabled until after Velocity is restarted. Then the option is enabled, but it is not automatically checked. If you wish to enable FICAM mode, you must manually check this option (after licensing VCCS and restarting Velocity).