



# DirecDoor Firmware Upgrade Instructions

## Build information

**Note:** DD\_DIST\_C158 and DD\_DIST\_C159 were internal releases only.

### DD\_DIST\_R112/PP\_VER\_120/SP\_VER\_7012

This build is based on DD\_DIST\_R111 and contains quick fix DD\_DIST\_C157, DD\_DIST\_C160, DD\_DIST\_C161, DD\_DIST\_C162, and DD\_DIST\_C163. Build DD\_DIST\_R112 supersedes all previous builds.



Refer to [Upgrade instructions](#) on page 7 for firmware upgrade instructions.

### DD\_DIST\_C163/PP\_VER\_163/SP\_VER\_7063

This build is a quick fix based on DD\_DIST\_C162 and contains quick fix DD\_DIST\_C157, DD\_DIST\_C160, and DD\_DIST\_C161. It is not necessary to install build DD\_DIST\_R111 prior to installing build DD\_DIST\_C163. Build DD\_DIST\_C163 supersedes all previous builds.



The upgrade to C163 should be done only through the host software eFlash. Do NOT use the Integrated Configuration Tool!

## Issues resolved

Build DD\_DIST\_C163 resolves the following issues:

- For FCWnx and Secure Perfect systems, alarms were reported even before the sense time expired when the controller was turned offline and then back online.

## DD\_DIST\_C162/PP\_VER\_162/SP\_VER\_7062

This build is a quick fix based on DD\_DIST\_C161 and contains quick fix DD\_DIST\_C157, DD\_DIST\_C160, and DD\_DIST\_C161. It is not necessary to install build DD\_DIST\_R111 prior to installing build DD\_DIST\_C162. Build DD\_DIST\_C162 supersedes all previous builds.



The upgrade to C162 should be done only through the host software eFlash. Do NOT use the Integrated Configuration Tool!

### Issues resolved

Build DD\_DIST\_C162 resolves the following issues:

- Timing drift with Timed APB for SP/FCWnx. Also fixes issue of Timed APB failures in certain situations as reported by Michelin.

## DD\_DIST\_C161/PP\_VER\_161/SP\_VER\_7061

This build is a quick fix based on DD\_DIST\_C159 and contains quick fix DD\_DIST\_C157 and DD\_DIST\_C160. It is not necessary to install build DD\_DIST\_C159 prior to installing build DD\_DIST\_C161. Build DD\_DIST\_C161 supersedes all previous builds.



The upgrade to C161 should be done only through the host software eFlash. Do NOT use the Integrated Configuration Tool!

### Issues resolved

Build DD\_DIST\_C161 resolves the following issues:

- Install script change to include the kernel dependency.

## DD\_DIST\_C160/PP\_VER\_160/SP\_VER\_7060

This build is a quick fix based on DD\_DIST\_R111 and contains quick fix DD\_DIST\_C157, DD\_DIST\_C158, and DD\_DIST\_C159. It is not necessary to install build DD\_DIST\_R111 prior to installing build DD\_DIST\_C160. Build DD\_DIST\_C160 supersedes all previous builds.



The upgrade to C160 should be done only through the host software eFlash. Do NOT use the Integrated Configuration Tool!

### Issues resolved

Build DD\_DIST\_C160 resolves the following issues:

- Timing issue while retrieving password file from SP/FCWnx Host.

## DD\_DIST\_C159/PP\_VER\_159/SP\_VER\_7059

This build is a quick fix based on DD\_DIST\_R111 and contains quick fix DD\_DIST\_C157 and DD\_DIST\_C158. It is not necessary to install build DD\_DIST\_R111 prior to installing build DD\_DIST\_C159. Build DD\_DIST\_C159 supersedes all previous builds.



The upgrade to C159 should be done only through the host software eFlash. Do NOT use the Integrated Configuration Tool!

### Issues resolved

Build DD\_DIST\_C159 resolves the following issues:

- Issues with CK8RP boards and STIs.

## DD\_DIST\_C158/PP\_VER\_158/SP\_VER\_7058

This build is a quick fix based on DD\_DIST\_R111 and contains quick fix DD\_DIST\_C157. This fix is only for customers using Secure Perfect or Facility Commander Wnx. It is not necessary to install build DD\_DIST\_R111 prior to installing build DD\_DIST\_C158. Build DD\_DIST\_C158 supersedes all previous builds.



The upgrade to C158 should be done only through the host software eFlash. Do NOT use the Integrated Configuration Tool!

### Issues resolved

Build DD\_DIST\_C158 resolves the following issues:

- Communication issues found at ADP Beta Site which resulted in Host Comm alarms.
- The controller will now honor the four phone numbers loaded via the DB download session and utilizes these numbers when present instead of the parameter block phone numbers. The parameter block phone numbers will only be used if no phone number download is generated by the host.
- Issuable badge unlocked door in persistent mode of operation.

## DD\_DIST\_C157/PP\_VER\_157/SP\_VER\_7057

This build is a quick fix based on DD\_DIST\_R111. It is not necessary to install build DD\_DIST\_R111 prior to installing build DD\_DIST\_C157. Build DD\_DIST\_C157 supersedes build DD\_DIST\_R111 and should be used in lieu of build DD\_DIST\_R111.



The upgrade to C157 should be done only through the host software eFlash. Do NOT use the Integrated Configuration Tool!

## Issues resolved

Build DD\_DIST\_C157 resolves the following issues:

- Reader Comm failure alarm in Picture Perfect when using a WIU2 interface.
- Script change to reboot the controller after the application install is complete.

## Known issues

Internet Explorer 6.0.2900.2180.xpsp\_sp2\_qfe.070227-2300 version cannot be used for configuring the controllers using the Integrated Configuration Tool. There are some known issues with Internet Explorer 6.0.2900.xxxx when using ICT. Please contact Customer Support if you face any issues configuring the controller using ICT.

## Build DD\_DIST\_R111

### Known issues resolved from DD\_DIST\_T110

Build DD\_DIST\_T110 resolves the following issues:

- Added a check for FCWnx so that the controller does not crash in case an improper configuration is sent from the host.
- Fixed the issue with magstripe formats.
- Added capability to review the update history within the Integrated Configuration Tool. It is accessible from Controller Info -> Other Info option.
- Behavior of the Logger has been modified to stop logging once the log file is full. **The user has to manually clear the log file and re-enable logging.** This is done to reduce the overload on the controller.
- 2MR timing related issues are fixed.

### Known issues resolved from DD\_DIST\_T106

Build DD\_DIST\_T106 resolves the following issues:

- Added 75-bit Wiegand format. The switch settings must be the following if using 75-bit PIV

Reader technology and format	SW1-1	SW1-2	SW1-3	SW1-4
Wiegand - 2700, 2801, 32 bit, Motorola Indala, Wiegand 75 bit PIV	OFF	OFF	ON	ON

- Timer related to scheduler on PP
- Socket reset on PP
- Web server lock up issue is fixed
- 2MR rule update, occupancy count, Output does not reset on input – related SDRs are fixed for PP.

## Known issues resolved from DD\_DIST\_T105

Build DD\_DIST\_T105 resolves the following issues:

- The Integrated Configuration tool provides an option to change the percent badge memory from 10 to 90 for Picture Perfect controllers. For Secure Perfect/FCWnx, it is fixed at 50% and is not user configurable.
- The behavior of uploading the history to the host has been changed on both hosts. The history will be sent to the host only upon receiving the base configuration.
- For Picture Perfect application, changes are made in the code to support the offline badge history and alarm history capacities in the manual.
- For Secure Perfect/FCWnx, the zone arm/disarm through keypad is fixed.
- For Secure Perfect/FCWnx, modem communication timing issues have been addressed.
- For Secure Perfect/FCWnx, the poll time of 30 seconds has been padded by 10 seconds in order to compensate for the host timer.

## Known issues resolved from DD\_DIST\_T104

Build DD\_DIST\_T104 resolves the following issues:

- Dial up issue of the Host unable to call the controller has been fixed.

## Known issues resolved from DD\_DIST\_T103

Build DD\_DIST\_T103 resolves the following issues:

- History buffer is wrapped around instead of filling up the entire memory.
- No records are sent to the host until base configuration is received. This is for both Secure Perfect/FCWnx and Picture Perfect.

## Known issues resolved from DD\_DIST\_T102

Build DD\_DIST\_T102 resolves the following issues:

- Issue of modem lock up fixed.
- Issue of synchronization between network and dial-up fixed.
- Issue of the board crash when changed from Secure Perfect to Picture Perfect application on the browser is fixed.
- Minor issues on DES keys page (entering same key value for two or more keys) and “otherParam” page (check for the values entered in the fields) are fixed.

## Known issues resolved from DD\_DIST\_T101

Build DD\_DIST\_T101 resolves the following issues:

- Issue of Door Held Alarm not reporting in Secure Perfect is fixed.

## Verify your DirecDoor firmware build

1. In the browser Address field, enter the IP address of the micro.
2. At the Integrated Configuration Tool password screen, log on.
3. Select **Micro Info**. Use the following table:

If this build is installed...	The following displays...
R112	Build Version - DD_DIST_R112
	PP Version - PP_VER_120
	SP Version - SP_VER_7012
C163 - R111 Quick Fix	Build Version - DD_DIST_C163
	PP Version - PP_VER_163
	SP Version - SP_VER_7063
C162 - R111 Quick Fix	Build Version - DD_DIST_C162
	PP Version - PP_VER_162
	SP Version - SP_VER_7062
C161 - R111 Quick Fix	Build Version - DD_DIST_C161
	PP Version - PP_VER_161
	SP Version - SP_VER_7061
C160 - R111 Quick Fix	Build Version - DD_DIST_C160
	PP Version - PP_VER_160
	SP Version - SP_VER_7060
C159 - R111 Quick Fix	Build Version - DD_DIST_C159
	PP Version - PP_VER_159
	SP Version - SP_VER_7059
C158 - R111 Quick Fix	Build Version - DD_DIST_C158
	PP Version - PP_VER_158
	SP Version - SP_VER_7058
C157 - R111 Quick Fix	Build Version - DD_DIST_C157
	PP Version - PP_VER_157
	SP Version - SP_VER_7057
R111	Build version: DD_DIST_R111
	PP version: PP_VER_119
	SP version: SP_VER_7111

# Upgrade instructions

## Upgrade to DD\_DIST\_R112/PP\_VER\_120/SP\_VER\_7012

### From DD\_DIST\_R111/PP\_VER\_119/SP\_VER\_7011

**Using the Integrated Configuration Tool:** Allocate about 10 minutes for upgrading each controller.

1. In the browser Address field, enter the IP address of the controller.
2. At the Integrated Configuration Tool password screen, log on.
3. From the **Flash Controller** menu, select **Flash Controller**.
4. Browse to the DD7012.efl and click **Save**.
5. The upgrade is complete when the status bar displays Done.

**Note:** The controller may reboot several times during this process.

**Using the eFlash through the Facility Commander Wnx, Secure Perfect or Picture Perfect host:**

Allocate about 20 to 45 minutes for upgrading each controller. Refer to [eFlash instructions](#) on page 11 and your host user manual for more information on eFlash.

1. eFlash the DD7012.efl file.
2. The controller reboots automatically once the upgrade is successful.

**Note:** Controller may reboot several times as the kernel, web server and application are updated.

3. To verify the build upgrade, refer to [Verify your DirecDoor firmware build](#) on page 6.

### From versions prior to DD\_DIST\_R111/PP\_VER\_119/SP\_VER\_7011



The upgrade to R112 from versions *prior* to R111 should be done only through the host software eFlash. Do NOT use the Integrated Configuration Tool!

**Using the Integrated Configuration Tool:** Not supported.

**Using the eFlash through the Secure Perfect or Picture Perfect host:**

Allocate about 20 to 45 minutes for upgrading each micro. Refer to [eFlash instructions](#) on page 11 and your host user manual for more information on eFlash.

1. eFlash the DD7012.efl file.
2. The controller reboots automatically once the upgrade is successful.

**Note:** Controller may reboot several times as the kernel, web server and application are updated.

3. To verify the build upgrade, refer to [Verify your DirecDoor firmware build](#) on page 6.

## Upgrade to DD\_DIST\_C163/PP\_VER\_163/SP\_VER\_7063 from any previous version



The upgrade to C163 should be done only through the host software eFlash. Do NOT use the Integrated Configuration Tool!

**Using the Integrated Configuration Tool:** Not supported.

**Using the eFlash through the Secure Perfect or Picture Perfect host:**

Allocate about 20 to 45 minutes for upgrading each micro. Refer to [eFlash instructions](#) on page 11 and your host user manual for more information on eFlash.

1. eFlash the DD7063.eFl file.
2. The controller reboots automatically once the upgrade is successful.

**Note:** Controller may reboot several times as the kernel, web server and application are updated.

3. To verify the build upgrade, refer to [Verify your DirecDoor firmware build](#) on page 6.

## Upgrade to DD\_DIST\_C162/PP\_VER\_162/SP\_VER\_7062 from any previous version



The upgrade to C162 should be done only through the host software eFlash. Do NOT use the Integrated Configuration Tool!

**Using the Integrated Configuration Tool:** Not supported.

**Using the eFlash through the Secure Perfect or Picture Perfect host:**

Allocate about 20 to 45 minutes for upgrading each micro. Refer to [eFlash instructions](#) on page 11 and your host user manual for more information on eFlash.

1. eFlash the DD7062.eFl file.
2. The controller reboots automatically once the upgrade is successful.

**Note:** Controller may reboot several times as the kernel, web server and application are updated.

3. To verify the build upgrade, refer to [Verify your DirecDoor firmware build](#) on page 6.

## Upgrade to DD\_DIST\_C161/PP\_VER\_161/SP\_VER\_7061 from any previous version



The upgrade to C161 should be done only through the host software eFlash. Do NOT use the Integrated Configuration Tool!

**Using the Integrated Configuration Tool:** Not supported.

**Using the eFlash through the Secure Perfect or Picture Perfect host:**

Allocate about 20 to 45 minutes for upgrading each micro. Refer to [eFlash instructions](#) on page 11 and your host user manual for more information on eFlash.

1. eFlash the DD7061 .efl file.
2. The controller reboots automatically once the upgrade is successful.

**Note:** Controller may reboot several times as the kernel, web server and application are updated.

3. To verify the build upgrade, refer to [Verify your DirecDoor firmware build](#) on page 6.

## Upgrade to DD\_DIST\_C160/PP\_VER\_160/SP\_VER\_7060 from any previous version



The upgrade to C160 should be done only through the host software eFlash. Do NOT use the Integrated Configuration Tool!

**Using the Integrated Configuration Tool:** Not supported.

**Using the eFlash through the Secure Perfect or Picture Perfect host:**

Allocate about 20 to 45 minutes for upgrading each micro. Refer to [eFlash instructions](#) on page 11 and your host user manual for more information on eFlash.

1. eFlash the DD7060 .efl file.
2. The controller reboots automatically once the upgrade is successful.

**Note:** Controller may reboot several times as the kernel, web server and application are updated.

3. To verify the build upgrade, refer to [Verify your DirecDoor firmware build](#) on page 6.

## Upgrade to DD\_DIST\_C159/PP\_VER\_159/SP\_VER\_7059 from any previous version



The upgrade to C159 should be done only through the host software eFlash. Do NOT use the Integrated Configuration Tool!

**Using the Integrated Configuration Tool:** Not supported.

**Using the eFlash through the Secure Perfect or Picture Perfect host:**

Allocate about 20 to 45 minutes for upgrading each micro. Refer to [eFlash instructions](#) on page 11 and your host user manual for more information on eFlash.

1. eFlash the DD7059 .efl file.
2. The controller reboots automatically once the upgrade is successful.

**Note:** Controller may reboot several times as the kernel, web server and application are updated.

3. To verify the build upgrade, refer to [Verify your DirecDoor firmware build](#) on page 6.

## Upgrade to DD\_DIST\_C158/PP\_VER\_158/SP\_VER\_7058 from any previous version



The upgrade to C158 should be done only through the host software eFlash. Do NOT use the Integrated Configuration Tool!

**Using the Integrated Configuration Tool:** Not supported.

**Using the eFlash through the Secure Perfect or Picture Perfect host:**

Allocate about 20 to 45 minutes for upgrading each micro. Refer to [eFlash instructions](#) on page 11 and your host user manual for more information on eFlash.

1. eFlash the DD7058.efl file.
2. The controller reboots automatically once the upgrade is successful.

**Note:** Controller may reboot several times as the kernel, web server and application are updated.

3. To verify the build upgrade, refer to [Verify your DirecDoor firmware build](#) on page 6.

## Upgrade to DD\_DIST\_C157/PP\_VER\_157/SP\_VER\_7057 from any previous version



The upgrade to C157 should be done only through the host software eFlash. Do NOT use the Integrated Configuration Tool!

**Using the Integrated Configuration Tool:** Not supported.

**Using the eFlash through the Secure Perfect or Picture Perfect host:**

Allocate about 20 to 45 minutes for upgrading each micro. Refer to [eFlash instructions](#) on page 11 and your host user manual for more information on eFlash.

1. eFlash the DD7057.efl file.
2. The controller reboots automatically once the upgrade is successful.

**Note:** Controller may reboot several times as the kernel, web server and application are updated.

3. To verify the build upgrade, refer to [Verify your DirecDoor firmware build](#) on page 6.

## Upgrade to DD\_DIST\_R111/PP\_VER\_119/SP\_VER\_7111 from any previous version

These upgrade instructions are for end users that have Beta or non-released applications.

**Using the Integrated Configuration Tool:** Not supported.



The upgrade should be done only through the host software eFlash. Do NOT use the Integrated Configuration Tool!

**Using the eFlash through the Secure Perfect or Picture Perfect host:**

Allocate about 20 to 45 minutes for upgrading each controller. Follow the steps below to eFlash. Refer to [eFlash instructions](#) on page 11 and your host user manual for more information on eFlash.

1. eFlash the DD7111 .efl file.
2. The controller reboots automatically once the upgrade is successful.

**Note:** Controller may reboot several times as the kernel, web server and application are updated.

## eFlash instructions

### For Picture Perfect users

- **For Picture Perfect 4.0 SP2/Picture Perfect 2.0 SP1 users and controller versions later than R111:** When selecting the firmware .efl file to update a DirecDoor-based controller, select the .efl file for DirecDoor. There is no need to select the Direct and Network files.

**For all other Picture Perfect users and controller versions prior to R111:** When selecting the firmware .efl file to update a DirecDoor-based controller, select both **Direct Micro File** and **Network Micro File** regardless of the actual physical communications being used. To clarify, select both **Direct Micro File** and **Network Micro File** whether you have a direct-connect, dial-up or network-based DirecDoor controller.

- Because of the existing filter on the file name, the file name DDxxxxx .efl does not display on the selection list. Manually enter the path to the file on Picture Perfect 2.0 and later versions.
- In order to prevent a Flash Timeout Failure (indicated by a red icon), the system administrator needs to edit the /cas/log/.eflashrc file and enter a minimum of these values:

```
timeout = 60
flashwait = 2880
```

Some networks may require a higher parameter value.

