Honeywell

Easy*DL*™

Total*Freedom*® Formatting Plug-In

Integration Guide

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Introduction

Overview

Honeywell's Easy*DL*™ software plug-in parses bar code data found on United States government-issued identification cards✧ (i.e., driver's licenses) delivering ready to use data to host system applications for age verification or automatic electronic form population. Easy*DL* may be purchased pre-installed on select Honeywell area-imaging products or purchased as a standalone upgrade.

The following products support the Easy*DL* software plug-in.

- MS1633 Focus*BT*®
- MS1690 Focus®
- MS4980 Vuquest™
- Genesis™ 7580
- IS4920
- Xenon™ 1900
- Xenon™ 1902

Note: Honeywell cannot be held responsible for driver's licenses that do not comply with the formatting standards set forth by the American Association for Motor Vehicle Administrators (AAMVA).

Easy*DL* supported United States driver's licenses✧.

- Alabama (AL)
- Alaska (AK)
- Arizona (AZ)
- Arkansas (AR)
- Colorado (CO)
- Connecticut (CT)
- Dist. of Columbia (DC)
- Delaware (DE)
- Florida (FL)
- Georgia (GA)
- Hawaii (HI)
- Idaho (ID)
- Indiana (IN)
- Illinois (IL)
- Iowa (IA)
- Kansas (KS)
- Kentucky (KY)
- Louisiana(LA)
- Maine (ME)
- Maryland (MD)
- Massachusetts (MA)
- Michigan (MI)
- Minnesota (MN)
- Mississippi (MS)
- Missouri (MO)
- Montana (MT)
- Nebraska (NE)
- Nevada (NV)
- New Hampshire (NH)
- New Jersey (NJ)
- New York (NY)
- North Carolina (NC)
- North Dakota (ND)
- Ohio (OH)
- Oklahoma (OK)
- Oregon (OR)
- Pennsylvania (PA)
- Rhode Island (RI)
- South Carolina (SC)
- South Dakota (SD)
- Tennessee (TN)
- Texas (TX)
- Utah (UT)
- Vermont (VT)
- Virginia (VA)
- Washington (WA)
- West Virginia (WV)
- Wisconsin (WI)
- Wyoming (WY)

✧ *Some United States driver's licenses may contain encrypted data that cannot be processed by EasyDL. See page 7 for important information on special configuration requirements for encrypted data bar codes.*

Getting Started

EasyDL Software Installation

Note: Honeywell products ordered with EasyDL do not require software installation or software activation. Skip to page 5 for instructions on how to enable the software plug-in.

Items required for Easy*DL* installation or upgrades:

- A computer with access to the internet
- The imager's *Installation and User's Guide*
- The firmware upgrade cable specified in the *Installation and User's Guide*
- For Xenon Only: EZConfig software, downloadable at no additional cost from www.honeywellaidc.com
- For all other Imagers: MetroSet2 software, downloadable at no additional cost from www.honeywellaidc.com

For Xenon Only:

To install or upgrade the Easy*DL* software plug-in:

1. Download and save the Easy*DL* trial◈ software available at www.honeywellaidc.com.
2. Consult the imager's *User's Guide* for information on the specific cable required for firmware updates.
3. Connect the cable to the imager and an available RS232 serial or USB port on the host system.
4. Start the EZConfig software. Click on the *Help* file in the menu bar. Select *Help Topics* and follow the steps under *Connecting to a Device*.
5. In the Application Explorer, select *Download*. In the Main Workspace, click on the "…" button to browse for the file. Click on the *Download to Device* button.
6. After the firmware has been downloaded to the imager scan the *Save Custom Defaults* bar code in the Xenon 1900/1902 User's Guide. Power cycle the imager to complete the firmware upgrade process.

◈ *The free trial version of EasyDL has limited capabilities and is only valid for 50 scans. To prevent random "X" characters from appearing in the transmitted data stream, a full EasyDL license must be purchased. Contact customer service for more information on how to purchase an EasyDL license. See page 37 for contact information.*

The following installation/upgrade procedure is not applicable for imagers that do not support firmware updates through MetroSet2's flash feature. Consult the imager's *Installation and User's Guide* to verify the capabilities of the imager before proceeding.

Note: IS4920 users should consult a customer service representative if EasyDL is required for their application.

To install or upgrade the Easy*DL* software plug-in:

1. Download and save the Easy*DL* trial◈ software available at www.honeywellaidc.com.
2. Consult the imager's *Installation and User's Guide* for information on the specific cable required for firmware updates.
3. Connect the cable to the imager and an available RS232 serial or USB port on the host system.
4. Start the MetroSet2 software.
5. Click on the plus sign (+) next to *POS Scanners* or *Industrial Scanners*, depending on the product type, to expand the supported model list.
6. Choose the appropriate product model from the list.
7. Click on the *Configure* button.
8. Choose *Flash Utility* from the options list located on the left side of the screen.
9. Click on the *Open File* button in the Flash Utility window.
10. Locate and open the downloaded Easy*DL*◈ trial software.
11. Select the COM port on the host system to which the imager is connected.
12. Click on the *Flash Scanner* button to begin the flash upgrade.
13. A message appears on the screen when the upgrade is complete.

◈ *The free trial version of EasyDL has limited capabilities and is only valid for 50 scans. To prevent random "X" characters from appearing in the transmitted data stream, a full EasyDL license must be purchased. Contact customer service for more information on how to purchase an EasyDL license. See page 37 for contact information.*

EasyDL Software Activation

A licensing◈ key is required to activate the full version of Easy*DL*. Contact a customer service representative for information on purchasing a licensing key. Regional contact information is on page 37.

To Enable EasyDL Software Plug-In

Scan the **Enable Easy*DL*** bar code to enable the Easy*DL* software plug-in.

* Disable Easy*DL*

Enable Easy*DL*

Use the following bar codes for 1900/1902 Xenon only.

* Disable Easy*DL*

Enable Easy*DL*

◈ *The free trial version of EasyDL has limited capabilities and is only valid for 50 scans. To prevent a random "X" characters from appearing in the transmitted data stream, a full EasyDL license must be purchased. Contact customer service for more information on how to purchase an EasyDL license. See page 37 for contact information.*

* *Factory default*

Encrypted Data and EasyDL

Special Configuration Required for Encrypted Data

Some US driver's licenses may contain encrypted data that cannot be processed by Easy*DL*. These codes, when read, could negatively affect system performance if the unit is not configured to ignore the encrypted data codes.

Scan the **Disable Non-ID PDF417** configuration bar code for applications that involve scanning driver's licenses that may contain encrypted data.

Note: Disabling Non-ID PDF417 scanning prevents the capture and transmission of any PDF417 codes that are not recognized as an ID card.

The imager reads composite GS1 bar codes when disabling Non-ID PDF417 Scanning.

* Enable
Non-ID PDF417 Scanning

³ 9 9 0 2 1 7

Disable
Non-ID PDF417 Scanning

³ 9 9 0 2 1 8

Use the following PDF417 bar codes for 1900/1902 Xenon only.

* Enable
Non-ID PDF417 Scanning

9902F000017.

Disable
Non-ID PDF417 Scanning

9902F000018.

* *Factory default*

Data Transmission Configuration*

Before starting the configuration process, identify the necessary data fields required for the application and the order in which the data must be transmitted to the electronic form or database. Note the type of data delimiter (i.e., comma, tab, etc.) required for the application. When a single and constant field delimiter is required, follow the standard configuration process noted below. When different or varying quantities of data delimiters are required, use the multi-delimiter configuration process on page 10.

Standard Configuration (Single and Constant Field Delimiters)

The standard configuration should be used for applications where all the data fields are separated by a *single and constant* field delimiter (*see Figure 1*).

To configure the imager for standard data transmission:

1. Scan the **Start Standard Configuration** bar code on page 11.
2. Scan each required data field bar code in the order of the desired transmission sequence (see pages 12 - 13).
3. Scan a field delimiter bar code on page 14 (e.g., comma, tab).
4. Scan the required date format on page 15 (e.g., MM/DD/YYYY, MMDDYYY).
5. Scan the **End Configuration** bar code on page 11.

Example

John,Doe,90 Coles Rd,Blackwood,NJ,08012,01/01/68

To configure the imager to transmit the data sequence above:

1. Scan the **Start Standard Configuration** bar code on page 11.
2. Scan the **First Name** bar code
   the **Last Name** bar code,
   the **Street** bar code,
   the **City** bar code,
   the **State** bar code,
   the **Postal** bar code and then,
   the **Date of Birth** bar code on page 12.
3. Scan the **Comma “,”** bar code on page 14.
4. Scan the **MM/DD/YYYY** bar code on page 15.
5. Scan the **End Configuration** bar code on page 11.

Figure 1 . Example of Standard Configuration

** Xenon users, go to Data Transmission Configuration for Xenon Only*

Multi-Delimiter Configuration (Different or Varying Quantity)

The multi-delimiter configuration should be used for applications where data fields must be transmitted using *different or varying numbers* of delimiters (*see Figure 2*).

To configure the imager for Multi-Delimiter data transmission:

1. Scan the **Start Multi-Delimiter Configuration** bar code on page 11.
2. Scan the first transmitted data field bar code (see pages 12 - 13).
3. Scan any number of field delimiter bar codes on page 14 (e.g., comma, tab).
4. Scan the next desired data field bar code (see pages 12 - 13).
5. Repeat steps 3 & 4 until the entire data string is configured.
6. Scan the required date format on page 15 (e.g., MM/DD/YYYY, MMDDYYY).
7. Scan the **End Configuration** bar code on page 11.

Example

John<tab>Doe<tab><tab>90 Coles Rd<tab>Blackwood,NJ<tab>08012<tab>01/01/68

To configure the imager to transmit the data sequence above:

1. Scan the **Start Multi-Configuration** bar code on page 11.
2. Scan the **First Name** bar code on page 12.
3. Scan the **Tab** bar code on page 14.
4. Scan the **Last Name** bar code on page 12.
5. Scan the **Tab** bar code two times, the **Street** bar code, the **Tab** bar code, the **City** bar code, the **Comma ","** bar code, the **State** bar code, the **Tab** bar code, **Postal** bar code, the **Tab** bar code and then the **Date of Birth** bar code.
6. Scan the **MM/DD/YYYY** bar code on page 15.
7. Scan the **End Configuration** bar code on page 11.

Figure 2. Example of Multi-Delimiter Configuration

Standard Enter/Exit Configuration Bar Codes

Start Standard Configuration

³ 9 9 0 2 1 4

End Configuration

³ 9 9 0 2 1 5

Multi-Delimiter Enter/Exit Configuration Bar Codes

Start
Multi-Delimiter Configuration

³ 9 9 0 2 1 6

End Configuration

³ 9 9 0 2 1 5

Data Field Options

First Name

³ 9 9 0 2 2 f 1 2

Middle Name

³ 9 9 0 2 2 f 1 3

Last Name

³ 9 9 0 2 2 f 1 4

Date of Birth

³ 9 9 0 2 2 f 1 8

Expiration Date

³ 9 9 0 2 2 f 1 7

Issued Date

³ 9 9 0 2 2 f 1 9

Street

³ 9 9 0 2 2 f 7 1

Street 2

³ 9 9 0 2 2 f 7 2

City

³ 9 9 0 2 2 f 7 4

State

³ 9 9 0 2 2 f 7 5

Postal Code

³ 9 9 0 2 2 f 7 6

ID Number

³ 9 9 0 2 2 f 2 0

Height

³ 9 9 0 2 2 f 8 2

Class

³ 9 9 0 2 2 f 7 9

Weight

³ 9 9 0 2 2 f 8 4

Endorsements

³ 9 9 0 2 2 f 8 1

Eye Color

³ 9 9 0 2 2 f 8 6

Restriction

³ 9 9 0 2 2 f 8 0

Hair Color

³ 9 9 0 2 2 f 8 7

Issuer Identification Number (IIN)

³ 9 9 0 2 2 f 5 9

Gender

³ 9 9 0 2 2 f 9 0

Duplicates

³ 9 9 0 2 2 f 1 1 3

Organ Donor

³ 9 9 0 2 2 f 1 1 5

Customer ID

³ 9 9 0 2 2 f 1 1 7

Data Field Delimiter Options

Tab

³ 9 9 0 2 2 s t

Carriage Return “CR”

³ 9 9 0 2 2 s r

* Comma “,”

³ 9 9 0 2 2 s ,

Dollar Sign “$”

³ 9 9 0 2 2 s $

Carat “^”

³ 9 9 0 2 2 s ^

Semi-Colon “;”

³ 9 9 0 2 2 s ;

Space “ ”

³ 9 9 0 2 2 s

Date Formats

* MM/DD/YYYY

³ 9 9 0 2 2 d 0

MMDDYYYY

³ 9 9 0 2 2 d 1

MM/DD/YY

³ 9 9 0 2 2 d 2

MMDDYY

³ 9 9 0 2 2 d 3

MM-DD-YY

³ 9 9 0 2 2 d 4

MM-DD-YYYY

³ 9 9 0 2 2 d 5

* *Factory default*

Data Transmission Configuration for Xenon Only

Before starting the configuration process, identify the necessary data fields required for the application and the order in which the data must be transmitted to the electronic form or database. Note the type of data delimiter (i.e., comma, tab, etc.) required for the application. When a single and constant field delimiter is required, follow the standard configuration process noted below. When different or varying quantities of data delimiters are required, use the multi-delimiter configuration process on page 18.

Standard Configuration for Xenon (Single and Constant Field Delimiters)

The standard configuration should be used for applications where all the data fields are separated by a *single and constant* field delimiter (*see Figure 3)*.

To configure the imager for standard data transmission:

1. Scan the **Start Standard Configuration** bar code on page 19.
2. Scan each required data field bar code in the order of the desired transmission sequence (see pages 20 - 22).
3. Scan a field delimiter bar code on page 23 (e.g., comma, tab).
4. Scan the required date format on page 24 (e.g., MM/DD/YYYY, MMDDYYY).
5. Scan the **End Configuration** bar code on page 19.

Example

John,Doe,90 Coles Rd,Blackwood,NJ,08012,01/01/68

To configure the imager to transmit the data sequence above:

1. Scan the **Start Standard Configuration** bar code on page 19.
2. Scan the **First Name** bar code
   the **Last Name** bar code,
   the **Street** bar code,
   the **City** bar code,
   the **State** bar code,
   the **Postal** bar code and then,
   the **Date of Birth** bar code on page 20.
3. Scan the **Comma “,”** bar code on page 23.
4. Scan the **MM/DD/YYYY** bar code on page 24.
5. Scan the **End Configuration** bar code on page 19.

Figure 3. Example of Standard Configuration

Multi-Delimiter Configuration for Xenon (Different or Varying Quantity)

The multi-delimiter configuration should be used for applications where data fields must be transmitted using *different or varying numbers* of delimiters (*see Figure 4.*).

To configure the imager for Multi-Delimiter data transmission:

1. Scan the **Start Multi-Delimiter Configuration** bar code on page 19.
2. Scan the first transmitted data field bar code (see pages 20 - **22**).
3. Scan any number of field delimiter bar codes on page 23 (e.g., comma, tab).
4. Scan the next desired data field bar code (see pages 20 - 22).
5. Repeat steps 3 & 4 until the entire data string is configured.
6. Scan the required date format on page 24 (e.g., MM/DD/YYYY, MMDDYYY).
7. Scan the **End Configuration** bar code on page 19.

Example

John<tab>Doe<tab><tab>90 Coles Rd<tab>Blackwood,NJ<tab>08012<tab>01/01/68

To configure the imager to transmit the data sequence above:

1. Scan the **Start Multi-Configuration** bar code on page 19.
2. Scan the **First Name** bar code on page 20.
3. Scan the **Tab** bar code on page 23.
4. Scan the **Last Name** bar code on page 20.
5. Scan the **Tab** bar code two times, the **Street** bar code, the **Tab** bar code, the **City** bar code, the **Comma ","** bar code, the **State** bar code, the **Tab** bar code, **Postal** bar code, the **Tab** bar code and then the **Date of Birth** bar code.
6. Scan the **MM/DD/YYYY** bar code on page 24.
7. Scan the **End Configuration** bar code on page 19.

Figure 4. Example of Multi-Delimiter Configuration

Standard Enter/Exit Configuration Bar Codes

Start Standard Configuration

9902F000014.

End Configuration

9902F000015.

Multi-Delimiter Enter/Exit Configuration Bar Codes

Start
Multi-Delimiter Configuration

9902F000016.

End Configuration

9902F000015.

Data Field Options

First Name

9902F00002f12.

Middle Name

9902F00002f71.

Last Name

9902F00002f12.

Date of Birth

9902F00002f18.

Expiration Date

9902F00002f17.

Issued Date

9902F00002f19.

Street

9902F00002f71.

Street 2

9902F00002f72.

City

9902F00002f74.

State

9902F00002f75.

Postal Code

9902F00002f76.

Height

9902F00002f82.

Weight

9902F00002f84.

Eye Color

9902F00002f86.

Hair Color

9902F00002f87.

Gender

9902F00002f90.

ID Number

9902F00002f20.

Organ Donor

3902F00002f115.

Class

9902F00002f79.

Endorsements

9902F00002f81.

Restriction

9902F00002f80.

Issuer Identification Number (IIN)

9902F00002f59.

Duplicates

9902F00002f113.

Customer ID

9902F00002f117.

Data Field Delimiter Options

Tab

9902F00002st.

* Comma “,”

9902F00002s,.

Carat “^”

9902F00002s^.

Space “ “

9902F00002s.

Carriage Return “CR”

9902F00002sr.

Dollar Sign “$”

9902F00002s$.

Semi-Colon “;”

9902F00002s;.

* *Factory default*

Date Formats

* MM/DD/YYYY

3902F00002d0.

MM/DD/YY

3902F00002d2.

MM-DD-YYYY

3902F00002d5.

MM-DD-YY

3902F00002d4.

MMDDYYYY

3902F00002d1.

MMDDYY

3902F00002d3.

* *Factory default*

Jurisdictional Update Instructions

Honeywell creates update packages that are jurisdiction specific when government or industry specifications change requiring an upgrade to the imager's Easy*DL* software plug-in. Contact a customer service representative for additional information on available update packages.

The following configuration sequence provides information on the upgrade process once an update package has been acquired from Honeywell.

To implement a jurisdictional update*:

1. Scan the **Start Update** bar code.

   Start Update

   ³ 9 9 0 2 1 0

2. Scan **all of the PDF417 jurisdictional update codes** provided in the update package.

   Note: The PDF417 codes do not have to be scanned in any specific order. Accidentally scanning a code more than once will not affect the update.

3. Scan the **Complete Update** bar code to finish the update.

   Complete Update

   ³ 9 9 0 2 1 2

Scanning the **Cancel Update** bar code voids all current new settings and returns the imager back to the product's most recent settings. The bar code may be scanned at any time during the update process.

Cancel Update

³ 9 9 0 2 1 3

** For Xenon, please refer to page 26 for jurisdictional update implementation.*

To implement a jurisdictional update for Xenon:

1. Scan the Start Update bar code.

   Start Update

   9902F000010.

2. Scan all of the PDF417 jurisdictional update codes provided in the update package.

   Note: The PDF417 codes do not have to be scanned in any specific order. Accidentally scanning a code more than once will not affect the update.

3. Scan the Complete Update bar code to finish the update.

   Complete Update

   9902F000012.

Scanning the **Cancel Update** bar code voids all current new settings and returns the imager back to the product's most recent settings. The bar code may be scanned at any time during the update process.

Cancel Update

9902F000013.

EasyDL Version Identification

Scan the bar code below to transmit the version of Easy*DL* software that the imager is running.

Easy*DL* Version Check

Note: If the characters @#$EasyDLVersion$#@ are transmitted when the bar code is scanned, the unit is not equipped with the EasyDL software plug-in. If no characters are transmitted when the bar code is scanned, the unit may be equipped with the free trial version.

For units deployed before March 2010, scan the bar code below:

Alternate Easy*DL* Version

Note: If the characters @#$EasyDLVersion$#@ or @#$EasyIDVersion$#@ are transmitted when the bar code is scanned, the unit is not equipped with the EasyDL software plug-in. If no characters are transmitted when the bar code is scanned, the unit may be equipped with the free trial version.

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