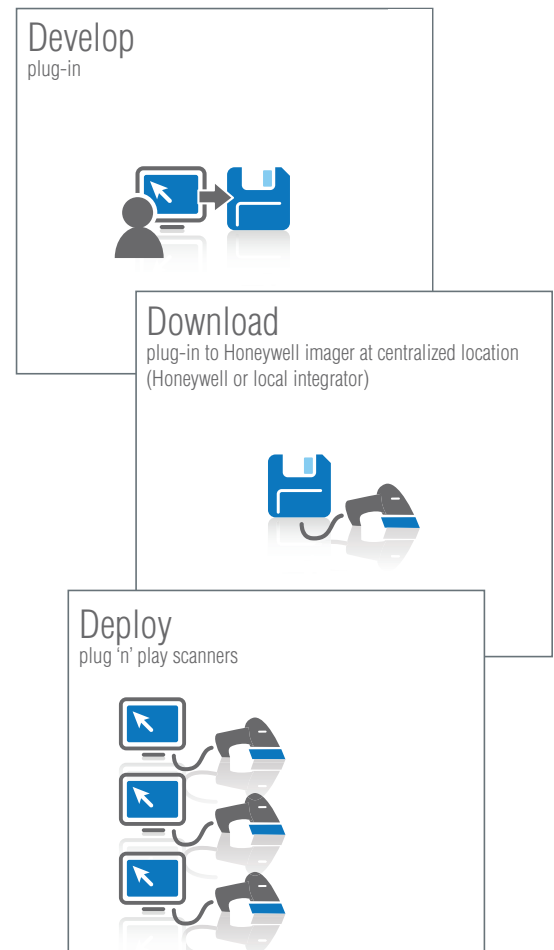# TotalFreedom

Development Platform

Honeywell's TotalFreedom® development platform provides end users and third-party integrators using Honeywell area-imaging scanners with the tools necessary for developing a wide array of plug-ins that can meet the specific needs of any application.

Compatible area-imaging scanners are built on an operating system that offers a simple application programming interface (API). The API enables end users to write and install plug-ins that run directly on the scanner. This capability eliminates the need to modify host-side applications which can lead to longer sales cycles and a more difficult qualification process.

TotalFreedom currently supports two types of plug-ins—decoding and formatting. Decoding plug-ins allow vendors to develop customized software that searches for and extracts data from the captured image. This may include plug-ins that recognize non-standard optical character recognition (OCR) fonts, proprietary bar code symbologies, unique symbols or other image patterns. Formatting plug-ins can parse or reformat bar code data in any desired order. Formatting plug-ins can also encrypt or decrypt bar code data prior to its transmission to the host system.

Honeywell supports developers by offering a software development kit (SDK) that contains everything necessary for developing and installing plug-ins. Available to download online free of charge, the SDK also includes sample source code which can be used as starting templates.

Honeywell and TotalFreedom also protect the licensing rights of third-party software developers by offering licensing check functionality that eliminates the risk of users installing proprietary software on unauthorized scanner hardware.

Develop
plug-in

Download
plug-in to Honeywell imager at centralized location
(Honeywell or local integrator)

Deploy
plug 'n' play scanners

Features

- **What are the components of TotalFreedom and how does it work?** An operating system with open-system architecture allows third-party vendors to use familiar programming languages (C and C++) to develop plug-ins that can be embedded directly into imager

- **What can I do with TotalFreedom?** Create decode plug-ins that allow your Honeywell imager to decode non-standard or proprietary bar codes or formatting plug-ins that parse or reformat data

- **How do I develop and install plug-ins?** The TotalFreedom plug-in SDK provides the tools necessary for developing and installing plug-ins, using a PC with Windows or Linux operating system and a compatible Honeywell imager

- **What type of protection does Honeywell offer third-party software developers?** Built-in license check functionality prohibits the copying and installation of proprietary plug-ins without permission

TotalFreedom Overview

Comparison of Plug-in Development and Installation

with TotalFreedom

1 | **Develop**
plug-in

2 | **Download**
plug-in to Honeywell imager at centralized location
(Honeywell or local integrator)

3 | **Deploy**
plug 'n' play scanners

without TotalFreedom

1 | Develop plug-in for each operating system

2 | Submit plug-in for IT qualification

3 | Deploy technicians to install plug-in at multiple locations

4 | Secure administrative rights to install plug-in

5 | Download plug-in to host systems

6 | Install pre-configured scanners

Host System Compatibility ● all platforms   ● Windows   ● DOS   ● Linux

Plug-In Requirements

Programming Languages: C, C++

ROM Memory: Can not exceed 2 MB

RAM Memory: Can not exceed 4 MB

Compatible Products

TotalFreedom 1.0: Focus® 1690; Focus 1890; FocusBT 1633; Genesis™ 7580; Vuquest™ 4980; IS1650; IS4920
TotalFreedom 2.0: Xenon™ 1900, 1902; N56x0; N56x3

Warranty

The installation of non-certified software will void the standard warranty. Plug-ins can be certified by registering the plug-in with Honeywell Scanning & Mobility and submitting it for qualification testing.

For more information:

www.honeywellaidc.com

Honeywell Scanning & Mobility

9680 Old Bailes Road

Fort Mill, SC 29707

800.582.4263

www.honeywell.com

Honeywell