

Scanner Management Utility

User Documentation

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1 Overview

The Honeywell Command Line Scanner Management Utility Tool assists with staging, deployment and managing barcode scanners. Available key features include firmware updates, configuration updates, golden image and sending end device model specific commands. Details about available features and workflows can be found in this document under Supported Workflows.

2 Prerequisites

Prior to Installation of SMU, ensure that the following items are addressed:

- Microsoft Visual C++ 2010 Redistributable Package
- A computer with 32/64 bit versions of Windows 10, 8, 7, POSReady7 or POSReady2009

3 Software Installation

Software downloads for SMU can be accessed through the Technical Support Downloads Portal at <https://hsmftp.honeywell.com/>. You will need to create or have an active account to download any Honeywell software.

During the installation process, install the NULL driver on Windows 8.1 and Windows 10 to associate Honeywell Scanner devices configured as USB HID barcode or USB Keyboard scanner.

4 Supported Scanner Models

SMU supports the Honeywell scanners listed below.

Handheld General Purpose: Voyager 12xxg (1202g), Voyager 14xxg (1400g, 1450g), Voyager 1602g, Xenon 1900, Hyperion 1300, YJHH660, 1930, 1932

Hands free General Purpose: Genesis 7580g, VuQuest 33xxg (3310g, 3320g)

Wearable Barcode Scanners: 8680i

5 How to Use

SMU is a command line tool. To execute SMU, first open a command prompt from the Windows Start menu. Then, navigate to the folder containing the SMU executable and execute the command.

The syntax is:

```
[/timeout <0...>] [/port <0,1,2...>] [/model <string>] [/loglevel <0-4>]
```

5.1 Mandatory Arguments

When creating a workflow one of the five (5) Mandatory Arguments below must be specified.

Mandatory Arguments	
/exmset	Downloads the specified EXM file to the scanner.
/exmget	Retrieves the scanner configuration to the given
/upg	Will upgrade the scanner firmware with the given MOC.
/cmd	Will send the given string as a SYN-M menu command. Scanner response will be dumped to standard output.
/cmdy	Will send the given string as a SYN-Y menu command. Scanner response will be dumped to standard output.

5.2 Optional Arguments

You can integrate any of the following Optional Arguments in your workflow.

Optional Arguments	
/timeout	Maximum time to wait for a scanner reply, in milliseconds. Default = 5000 ms.
/port	Indicates where to look for the scanner 0 = Parallel Auto detection (default) for the following interfaces:
	USB ReM Interface
	USB ReM Legacy Interface
	USB HIS Barcode Scanner
	USB Serial, RS232 and BTSPPP ports (in this order, for each COM present where at least one modem signal is active)
	Any other = Fixed COM port (USB Serial, RS232 or BTSPPP)
/interface	Indicate which interface to look for device by. If there are more than 1 devices found, SMU will operate on the 1st one.
	/port is 0 or no /port specified
	USB HIDPOS
	USB Serial
	USB ReM
	ReM Legacy (The 2 nd interface for USB HID Keyboard device
	RS232
	BT SPP
	/port is 1,2,3,...,/interface is ignored
/model	Device's name (SYN-Y P_NAME) must match the provided string.
/loglevel:	Logging level [0-4]. Default = 0.

Return Codes

On execution, SMU returns exit codes according to the specified parameters.

If multiple arguments are specified, SMU will return ACK only if all the arguments return ACK. Otherwise, SMU will set the last NAK or ENQ as the return code.

cmd and cmdy Exit codes:		
	0=ACK	Success: Scanner replied with ACK
	1=ENQ	Error: Menu Command not recognized
	2=NAK	Error: Menu Command recognized but rejected
	3= TIMEOUT	Error: Timeout awaiting a device response

exmset, exmget, upg Success Exit codes:		
	0=SUCCESS	Success: the operation (exmset, exmget or upg) is successful
	4=No_DEVICE	Error: Did not find a scanner
	5=TIMEOUT_INVALID	Error: Timeout value is invalid
	6= ParseCmdLine_ERROR	Error: Command line arguments are invalid
	[7,13]=SDK_DC_INTER_ERROR	Error: SDK Discovery internal error
	[14,19]=SDK_DC_INTER_ERROR	Error: SDK Datacollection internal error
	[20,23] = SDK_CONNECTION_INTER_ERROR	SDK Collection internal error
	[24,41] = SDK_UPG_INTER_ERROR	Error: SDK Flash firmware internal error
	[42,241] = DSM_INTER_ERROR	DSM internal error
For multiple menu commands, SMU will return ACK only if all of the menu commands return ACK. Otherwise, SMU will set the last NAK or ENQ as the return code		

6 Supported Workflows and examples

6.1 Create a Configuration “Golden Image”

Step 1 – define configuration as desired with EZconfig

Step 2- use SMU to retrieve golden.exm

6.1.1 Example

smu.exe /exmget golden.exm

6.2 Update a Configuration with “Golden Image”

SMU can update the configuration on a single device or on multiple devices when used with PowerShell or other scripting language with looping scripts. Push the golden.exm settings to the first autodetected scanner or the scanner connected in COM2

6.2.1 Example

1-update to autodetected scanner- smu.exe /exmset golden.exm

2 -update to specific port - smu.exe /xmset golden.exm /port 2

6.3 Update Firmware

SMU can update a single device or multiple devices on the same PC when used with PowerShell or other scripting language with looping scripts.

6.3.1 Example – upgrade specific scanner

Upgrade on a specific PC example below uses xxxxxxxx on port 21.

1- smu.exe /upg BJ000180AAA.moc /port 21 /model 1900

6.3.2 Example- upgrade several scanners on a PC

Upgrade on a specific PC example below uses xxxxxxxx on port 21.

2- smu.exe /upg BJ000180AAA.moc

6.4 Create Log

Use SMU to create file smu.log with detailed logging

6.4.1 Example

smu.exe /xmget myconfig.exm /loglevel 4

7 Batch Operations

The real power of SMU happens from a server using PowerShell scripts or other scripting language with looping scripts. An administrator can upgrade many scanners in an organization at the same time and log the results of each update activity. PowerShell scripts can be used to:

- Find all scanners in network
- Upgrade all scanners on a list
- Find all scanners on line

7.1 Update firmware and license/install EZDL

The example PowerShell script shown checks

- If the POS application is running,
- Presence of SMU
- Firmware version and updates if necessary
- License file for the serial number

The PowerShell script also

- Installs EZDL if necessary
- Applies any config updates.



8 How to get support

If you need assistance installing or troubleshooting your product, contact us by using one of these methods:

Knowledge Base: www.hsmknowledgebase.com

Our Knowledge Base provides thousands of immediate solutions. If the Knowledge Base cannot help, our Technical Support Portal provides an easy way to report your problem or ask your question.

Technical Support Portal: www.hsmsupportportal.com

You can use the Technical Support Portal to report your problem or to search our Knowledge Base for immediate solutions to your technical issues. With the Portal, you can submit and track your questions online and send and receive attachments.

Web form: www.hsmsupportportal.com

You can contact our technical support team directly by filling out our online support form. Enter your contact details and the description of the question or problem.

Telephone: www.honeywellaidc.com/locations

For our latest contact information, please check our website.