

Peripheral Interfacing Options with Vocollect Voice

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Notice

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Chapter 1

Introduction

Talkman[®] wearable devices are designed to work with value-added peripherals that complement voice systems, such as scanners, printers, and displays.

Voice technology has been proven to increase productivity and accuracy in the workforce, yet certain peripherals can enhance worker performance even further. For example, additions to voice can include printing labels during selection, use of display for choosing from a long list of items, or scanning for entering long strings of alphanumeric data.

Content

This document includes the following information:

- · Summary of supported peripherals
- · Summary of tested peripherals
- · Support expectations with peripherals
- · General wired and Bluetooth data communication concepts
- · Selected Talkman parameters for use with peripherals
- Troubleshooting recommendations
- · Technical/background information on devices and device setup
- Peripheral testing details

Honeywell's current testing program for third party peripherals publishes or updates results several times a year. The most up-to-date version of this document can be obtained from your Honeywell Vocollect representative. Authorized Honeywell Vocollect Partners may obtain up-to-date materials from *www.voiceworld.com*.

Audience

This document is intended to be used as a reference resource by authorized resellers, sales representatives, customers, and users of Honeywell products.

Version Release Notes

New with This Update

New peripherals tested with this update include:

Honeywell Granit 1911i Bluetooth Scanner

Planned for Next Update

Peripherals planned to be included in the next update include:

- Intermec SW61 scanner
- · Motorola RS-419 wired scanner with adapter
- Toshiba TEC B-EP4DL-GH40-QM-R WLAN printer
- Honeywell 3310G scanner

This list is subject to change.

Contact Information

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Patents and Intellectual Property

For patent information, see *http://www.hsmpats.com*.

Chapter 2

Peripherals Support & Testing

Honeywell provides support to authorized representatives and customers under terms of their support agreements. Access to support for peripherals is governed by those support programs. Peripherals are documented in several ways by Honeywell:

Supported – peripherals in this category can be found on the Honeywell price list or Intermec price list and many through a full QA cycle with each release of VoiceClient or VoiceCatalyst. Honeywell may have a relationship with the peripheral provider, which can reduce resolution time when unforeseen problems are encountered.

Tested – these peripherals have been tested at a point in time with specific combination of peripheral firmware, Vocollect hardware, and a VoiceClient / VoiceCatalyst versions. A report is published detailing how the devices were configured and any restrictions or caveats are noted. The peripherals fall into three classes:

- Passes all no issues were experienced in testing
- **Passes some, workarounds exist** device may have issues in some applications or when configured in certain ways (for example, initiator vs. acceptor)
- **Does not pass** device is not compatible with the Vocollect solution. The peripheral will be handled in the same manner as if it had not been tested

For those peripherals that pass all or some, Honeywell can provide assistance configuring the Talkman and the peripheral based on the details found in the test report but cannot supply extensive information or support if problems are encountered. The partner or the customer may need to work with the peripheral vendor or supplier directly to resolve issues.

Not Tested – Honeywell can provide general guidelines about the Talkman set-up but the partner or customer will need to work with the peripheral vendor or supplier directly for configuration details and / or to troubleshoot problems that arise.

Category Type of Support							
	Assistance configuring Talkman	Assistance configuring peripheral	Fixes or workaround for Honeywell interoperability issues with peripheral	Fixes or workaround for peripheral device issues	Assistnace with workflow and peripheral interaction		
Supported	S	S	S	S	Fully supported		
Tested	А	А	x*	x*	Tested		
Not tested	А	x	x	x	Not tested		

The above can be summarized in the following table.

S = Support can be provided for aspects that have been tested as well as other functionality.

A = Assistance can be provided only for aspects that have been tested.

x = Honeywell can only provide support regarding the Honeywell aspects of the interface.

* = Known interoperability or peripheral device issues are documented in the test report.

Device Support and Testing Summary

Peripherals are tested with specific Talkman devices and software configurations. It is likely that those peripherals would work with future versions of Talkman software as well as on other Talkman devices. Customers should utilize the peripherals listed here as a guide for selection. If an issue is encountered with a peripheral on the supported peripheral list, Technical Support should be able to provide some basic troubleshooting assistance. While Honeywell can not guarantee that future versions of software will work with scanners that have been tested using older versions of software it is highly likely that issues will be encountered with peripherals that have already been tested and passed by Honeywell.

Honeywell strongly recommends preliminary testing of any device/combination planned for production use to assure that it will meet the actual needs and requirements of the job.

Peripherals Supported by Honeywell

Honeywell supports the following peripherals by providing guidance for use with Honeywell products and solutions and assistance with problem resolution. These peripherals can be found on the price list.

Device	Connection	n Form Mf Factor Mc	Mfr. & Part		Used With				Comments /		
Туре	Туре		Model	Number	A710, A730	A720	A500	T5	T2x	Typical Use	
Scanner			Back of hand	Honeywell Metrologic IS4225	BC-609-1	_	√	1	1	~	Hands-free scanning
	Har	Handheld	Intermec SR61T	*		~	~			Wired handgun scanner for industrial environment	
			Intermec SR30	*	_	✓	1	_	_	Light weight wired scanner	
			Symbol LS3408-FZ	*		1	~	~	~	Used in freezing environments or damaged, difficult-to-read barcodes	
				Symbol LS3408-ER	*	_	✓	1	1	~	Used in long range applications
			Symbol LS4208	*	_	✓	1	~	~	Typical scanning applications	
			Symbol LS3008	*	_	√	~	~	~	Typical scanning applications	
	$\operatorname{Bluetooth}^{\mathbb{R}}$	Ring	Honeywell LXE8652	BC-613-1	√	√	~	√	~	Hands-free scanning	

Device	Connection	Form	Mfr. &	Part	Used With			Comments /		
Туре	туре	Factor	Model	Number	A710, A730	A720	A500	T5	T2x	Typical Use
		Handheld	Intermec SR61B	*	1	\$	1	1	1	Rugged wireless handheld scanning
			Intermec SF51	*	~	√	~	~	~	Flashlight style
			Honeywell Metrologic MS9535 Voyager	*	1	✓	1	1	1	Wireless sing-line laser scanner
			Honeywell Granit 1911i	*	~	✓ 	•	✓		Wireless industrial grade; Honeywell has performed preliminary testing and considers this scanner supported.
	Wired	Wearable	Zebra QL Series	*	_	V	1	1	1	Not sold by Honeywell but fully supported
	Bluetooth		Zebra QL Series	*	1	✓	1	1	1	Mobile wearable printers for printing labels
Printer	Bluetooth		Intermec PB50	*	1	~	1	_	_	Mobile wearable printers for printing labels
	Wi-Fi		Intermec PB50	*	1	✓	1	1		Mobile wearable printers for printing labels
	Ethernet LAN	Desktop	Intermec PM4i	*	1	~	1			Desktop LAN printer for printing labels / receipts

* Honeywell Partners: These peripherals can be purchased from partners.

Peripherals Tested by Honeywell

Honeywell has tested the following peripherals at a point in time with specific combinations of peripheral firmware, Honeywell hardware, and Honeywell voice software (VoiceCatalyst or VoiceClient).

Device	Connection Type	Form Factor	Mfr. & 7 Model	Testing Cycle	Voice Software Version Tested	Used With				Test	In
Туре						A710, A730	A720	A500	T 5	Results	
		D	Socket 9P/M	*	VoiceClient 3.7	—	—	~	~	Passes all	No
			Socket 9Pv3	Apr-13	VoiceCatalyst 1.2 VoiceClient 3.8.2			~	5	Passes	Yes
		TVIIIg	Motorola RS507	Apr-12	VoiceClient 3.8.1	—	—	—	~	Passes all	Yes
				Apr-13	VoiceClient 3.8.1	_	_	1	_	Passes most, workarounds exist	Yes
		Back of hand	TXCOM Tinyom	*	VoiceClient 3.1	—	—	—	1	Passes all	No
	Bluetooth	Handheld	Socket Series 7X	Apr-11	VoiceLink 3.7	—	—	—	~	Passes none	Yes
Scanner			Socket Series 7P	Dec-11	VoiceCatalyst 1.1 VoiceClient 3.7		_	1	1	Passes some, workarounds exist	Yes
			Socket 7Mv3	Apr-13	VoiceCatalyst 1.2 VoiceClient 3.8.2		—	1	1	Passes	Yes
			Motorola LS-4278	*	VoiceClient 3.1		—	—	~	Passes all	No
			LXE8810-FZ / Motorola LS3578-FZ	Dec-10	VoiceClient 3.7	_	—	_	√	Passes all	Yes
			LXE8820-ER / Motorola LS3578-ER	Dec-10	VoiceClient 3.7	—	—	—	1	Passes all	Yes
			Motorola CS3070	Aug-13	VoiceCatalyst 1.2 VoiceClient 3.8.2		_	1	1	Passes all, with workarounds	Yes
	USB	Ring	Zypad-ZRS	Apr-13	VoiceCatalyst 1.2 VoiceClient 3.8.2	—	—	1	1	Could not test	Yes
Display	Wi-Fi	Arm wearable	Apple iPod Touch	Apr-11	VoiceCatalyst 1.1	—	—	~	—	Passes all	Yes

Device Type	Connection Type	Form Factor	Mfr. & Testir Model Cycle	Testing	Voice	Used With				Test	In
				Cycle	Software Version Tested	A710, A730	A720	A500	T5	Kesults	Appendices
Printer	Bluetooth	uetooth Wearable S	Sato MB200i	Apr-12	VoiceCatalyst 1.1 VoiceClient 3.8.1	_		1	1	Passes some, workarounds exist	Yes
			Toshiba TEC Printer B-SP2D- GH30-R	Dec-12	VoiceCatalyst 1.1 VoiceClient 3.8.2		_	1	\$	Passes all	Yes
			Toshiba TEC Printer B-EP2D- GH30-QM-R	Aug-13	VoiceCatalyst 1.1	_		1	—	Passes all	Yes
			Intermec PB50 with Excape-P printer language	Aug-13	VoiceCatalyst 1.2 VoiceClient 3.8.2	_		1	1	Does not pass	Yes

* These devices were tested prior to the peripheral testing program.

Peripherals Tested by Honeywell

Testing Cycle

Honeywell's current testing program for third party peripherals publishes or updates results several times a year. Peripherals are selected from input received from customers as well as market studies.

Customers and partners who are interested in having specific peripherals tested should contact their Honeywell account managers who can work with Honeywell Product Management to determine if the peripherals can be entered as candidates into the program.

Current Peripheral List

Honeywell has tested several peripheral options for use with Talkman devices. While these peripherals are not sold by Honeywell; they can be purchased from other sources and have been tested with Talkman systems. The performance results for these devices are included in this document to help you determine if a peripheral meets your specific needs.

Peripheral Tests Performed

Honeywell performs the following tests on peripheral devices.

Peripheral (Bluetooth scanner) Test Scenarios

- · Basic Pairing with Terminal as initiator
- Basic Pairing with Terminal as acceptor
- · Sleep/On state change on device and effect on scanner (initiator and acceptor)
- · Operator state change on device and effect on scanner (initiator and acceptor)
- Out of Wi-Fi Range

- Out of Bluetooth (Bluetooth) Range
- Change paired Scanner
- Re-pair after power off
- Scanner reconnects after placed in charger
- · Scanner reconnects after power up in a charger
- 200+ char barcode test
- Code 39 and 128 Barcode test
- Rapid scanning (4/sec and 40/10 sec)
- Testing with other peripherals (SRX, Bluetooth printer etc.)

VoiceConsole Test Scenarios

- Pairing through VoiceConsole
- Clearing from VoiceConsole
- Pairing with multiple Bluetooth devices (Printer, SRX etc.)
- · New pairing clears old pairing
- · Pair two peripheral devices with same Talkman device

Failure test scenarios

- · Battery pull of Talkman device when paired and running through scanning task
- Pull Talkman device battery in the middle of pairing
- Walk out of range of Wi-Fi and pull Talkman battery
- Walk out of Bluetooth range of paired devices and check for scanning operation and its communication with VoiceClient on T5
- · Walk out of range of Talkman device and power down peripheral device
- Attempt to clear pairing from VoiceConsole when peripheral device is out of Bluetooth range from Talkman device

Stress Scenarios

- · Pair Bluetooth scanner, printer, and SRX with Talkman device via VoiceConsole
- Pair Bluetooth scanner, printer, SRX, then cradle Talkman device
- Pair Bluetooth scanner, printer, SRX, then pull/replace battery on Talkman device
- · Pair Bluetooth scanner, printer, SRX, then power off/on Talkman device
- Attempt to pair Talkman device with peripheral while Talkman is cradled
- Attempt to pair peripheral with device while peripheral is being charged
- · Attempt to pair peripherals without/with required parameters

Peripheral Display Test Scenarios

- Test for display
- · Test for display when task not running on device
- · Power off device when displaying task on display
- Power off display when task running on device
- · Cradle device when task is running and getting displayed on display
- · Connect display to power when running task is displayed on display browser
- · Change of state test on display
- Walk out of range of Wi-Fi network with display, while device is in network
- Walk out of range with device
- · Pull battery out of device while task is being displayed on display
- Out of range battery pull of device
- Pair Bluetooth scanner, printer, and SRX via VoiceConsole when task is displayed on display browser
- Pair serial scanner, printer, and SRX via VoiceConsole when task is displayed on display browser

- Pair Bluetooth scanner, serial printer, and SRX via VoiceConsole when task is displayed on display browser
- Pair serial scanner, Bluetooth printer, and SRX via VoiceConsole when task is displayed on display browser
- Pair Bluetooth scanner, printer, and SRX and then cradle device while task display is there on display
- Out of range test when both display and device are taken out of Wi-Fi range
- Attempt to use SRX with "SrxSupervisorAudioEnable" parameter
- Test for display task display when another display is connected with device
- Test for display task display when input for task provided by another display
- Test for display when pairing is done with another display while task running on device
- Device is cradled and task displays on the display device
- Test for display input to task when device is cradled
- · Pair Bluetooth scanner, printer, SRX and another display via VoiceConsole and pull battery of device
- Pair Bluetooth scanner, printer, SRX and another display and power off the device while task display on display

Peripheral Bluetooth Printer Test Scenarios

- · Basic Pairing with Terminal as initiator
- · Switching Bluetooth and serial scanners and printers
- · Bluetooth Scanner as acceptor & Display as initiator while printer is printing
- · Noise sample while scanning and printing without affecting scanning and printing functionality
- Retrain a word while scanning and printing without affecting scanning and printing functionality
- · Change an operator while scanning and printing without affecting scanning and printing functionality
- Change the voice speed setting while scanning and printing without affecting scanning and printing functionality
- Change the voice pitch setting while scanning and printing without affecting scanning and printing functionality
- Change the voice gender setting while scanning and printing without affecting scanning and printing functionality
- Scanning and printing can be performed out of range, and ODRs are successfully transferred once back in range
- · Scanning and printing can be performed while out of range
- Bluetooth scanner and printer will re-pair with the device after being taken out of Bluetooth range of the device and then brought back
- · Change from one paired Bluetooth scanner to another and perform normal operations
- · Device re-pairing after power off

Chapter 3

Guidelines for Choosing Peripherals

Scanners, printers and other peripherals can be an appropriate complement to voice-centric tasks. Honeywell offers a variety of off-the-shelf solutions that have been verified to work with Talkman A700 Solution, A500, T5 Series and T2 Series systems for scanning and many flexible options for printer interfacing.

Honeywell strongly recommends that users always thoroughly evaluate relevant peripherals in the actual work environment before purchasing devices. You should utilize the peripherals listed in this guide as a guide for selection. If an issue is encountered with a peripheral on the supported peripheral list, Technical Support should be able to provide some basic troubleshooting assistance. While Honeywell can not guarantee that future versions of software will work with scanners that have been tested using older versions of software it is highly likely that issues will be encountered with peripherals that have already been tested and passed by Honeywell.

Selecting Scanners for Use with Talkman Devices

Your considerations:

- How well the device will stand up to the physical demands of the workplace.
- If the device is ergonomically compatible with the working environment.
- How well the device functions in environmental extremes that could be encountered in the workplace.
- Choosing wired scanners that communicate via RS-232 and character-based protocols, which are the most widely used.
- Whether the scanner can be configured to meet the specific transmission requirements of the T5 Series and T2 Series devices (baud rate, parity, etc.).
- Compatibility with any other scanners that may be used at the site. For example, if two different types of scanners will be used at the same site, they can easily be interchanged without reconfiguring the T5 Series and T2 Series devices if both have the same RS-232 characteristics.
- Verifying that the scanner can decode the barcode symbols used at the site.
- Choosing Bluetooth peripherals that are Class 2, support the serial port protocol, and are easily programmed for the application.
- Choosing Bluetooth peripherals that do not require security when working with the T2 Series may decrease implementation complexity and management.

Selecting Printers and Printing Options

Your considerations:

- It is likely that a WLAN capable printer will provide the most flexible printing options.
- Verify that the warehouse management software or Vocollect VoiceLink will be set up to drive any host-based printing from the T5 Series and T2 Series devices.
- If commands are being sent to printers from the task using an ODR (Output Data Record), it will be necessary to provide a table of printers and associated network addresses or names in the task.

Selecting Display Options

Your considerations:

- If the device has a fully functional browser.
- How well the device will stand up to the physical demands of the workplace.
- Whether device has support for Bluetooth or Wi-Fi. Wi-Fi interface offers much smoother integration than Bluetooth.

• The device with touch screen is preferable over other kind of devices as it makes for more intuitive interface between worker and display device.

Peripheral Options Available from Honeywell

Honeywell currently offers scanners, printers and displays to allow data input and output from the A500, T5 Series (T5/T5*m*) and T2 Series (T2/T2*x*) devices. *(See table below.)*

Customers who wish to use Honeywell as a single point of purchase for all equipment can easily do so. Customers who wish to acquire the same devices from other sources and simply use Honeywell cables to connect to the Honeywell device can do so with several Honeywell scanning options. Regardless of the source of purchase of these devices, Honeywell can provide support for any of the devices listed below.

Device	Connection	Form	Mfr. &	Vocollect Part Number	Used With	Comments			
Туре	Туре	Factor	Model		A700	A500	Т5	T2x	/ Typical Use
Scanner	Wired	Back of hand	Honeywell Metrologic IS4225	BC-609-1	1	1	✓	✓	Hands-free scanning
Scanner	Bluetooth®	Ring	Honeywell LXE8652	BC-613-1	1	1	1	1	Hands-free scanning

Peripherals Supported and Sold by Honeywell

* Honeywell Vocollect Partners: These peripherals can be purchased from Honeywell Vocollect Partners.

🕞 Note:

- BC-609-1 may be purchased directly from Honeywell/Metrologic using part number MK4220-301/VOC.
- Customers who have purchased an LS3408 or LS4208 scanners from other sources may use the BC-610-101 or BC-610-102 cable to interface with the Talkman.
- Bluetooth scanners require external Bluetooth adapter with T2 series devices. The part number for Bluetooth adapter is BC-611-105.

Accessories for Peripherals Supported by Honeywell

Honeywell offers following accessories for the peripherals listed in the device table above.

Accessory Type	Manufacturer	Honeywell Part Number	Comments / Typical Use
	Replacement glove for Honeywell Metrologic IS422x	BC-609-1	Hands-free scanning
	Belt holster for gun scanners	BC-604-204	Used to carry a hand gun scanner
Scanner Accessories	Cable for LS3408/4208 scanners	BC-610-101	Used in long range applications
	T2x Bluetooth Serial Adapter and carrying pouch	BC-611-105	Requires VoiceClient V3.7 or newer with Talkman T2x and Bluetooth adapter

Accessory Type	Manufacturer	Honeywell Part Number	Comments / Typical Use
	Carrying pouch for T2x Bluetooth Serial Adapter	BC-611-103	Carrying pouch for Bluetooth adapter
Printer Accessories	Cable, Zebra QL Series Printer, 36" (0.9m)	BC-606-7	Zebra QL Series Printer are not sold but are fully supported by Honeywell

Cable Options Available from Honeywell

For users who wish to interface custom solutions to the A500, T5 Series and T2 Series devices, Honeywell offers a selection of cables that have the safety and features of the TCO connector with a variety of device connection options. This permits users to select their own device and interface it with the Talkman. While Honeywell can provide some general guidance, it is not possible to provide in-depth technical support for products not offered and supported by Honeywell.

Vocollect Part Number	Description
BC-606-1	Straight cable -48 " (1.2m) unterminated (see note)
BC-606-2	Straight cable – 48" (1.2m) – terminated with RJ11 – pin 2 (Tx), 3 (Rx), 4 (Ground), pins numbered looking at male connector with connector lock on top, pin #1 is leftmost.
BC-606-3	Coiled cable – 48" (1.2m) – unterminated (see note)
BC-606-6	Coiled cable – 79" (2m) (~48" (1.2m) uncoiled) - unterminated (see note)
BC-610-101	Cable, Scanner (Symbol [®] Gun) (58" (1.5m) coiled) – terminated with RJ45 – pin 2 (5v), 3 (Ground), 4 (Rx), pins numbered looking at male connector with connector lock on top, pin #1 is leftmost.

Note: Unterminated cables use wires red (5V), blue (Rx), grey (Tx), black (ground). All other wires are not used.

Honeywell does not offer custom designed cables. If a custom cable is needed Partners or customers should modify a standard cable for their unique needs.

Chapter 4

Understanding Device Connections

This chapter provides an overview of the device ports available on Honeywell voice devices.

Device Ports

Honeywell systems can accommodate wired devices as well as wireless devices using Bluetooth[®] Wireless Technology. Bluetooth is integral with the Talkman A700 Series, A500, and T5 Series devices. It supports scanning, printing, and wireless headset use simultaneously.

Any combination of Bluetooth and non-Bluetooth peripherals may be used on T5 Series devices. Bluetooth support may be added to existing T2x devices with an adapter connected to the scanning port that permits a single Bluetooth connection for scanning.

Port Use for Peripherals with Honeywell Devices								
Connection	Talkman	For Headset	For Scanning	For Printing	For Display Device			
		Yellow port	Blue port	Red port	N/A			
	T2 Series	\checkmark	\checkmark	✓	—			
Wined	T5 Series/A500	—	√*	√*	—			
wired	A720	—	√*	√*	—			
		Either wired scanning or printing but not both simultaneously						
	T2 Series	—	\checkmark	—	—			
			with adapter					
	T5 Series	1	1	1	—			
		SRX and SRX2 only						
Bluetooth	A500	1	1	1	1			
		SRX and SRX2 only						
	A710/A730	1	1	1	1			
		SRX and SRX2 only						

Note: Use of a Bluetooth port on the Talkman A710, A730, A500 and T5 Series disables the corresponding physical port for that function.

Talkman devices can interface not only with scanners and printers, but also any number of devices capable of supporting a serial port protocol, such as RFID readers, label printers, and serial device

controls. Your Honeywell Vocollect Representative can help you understand which specific versions of Vocollect hardware and software products are best suited for operations with other devices.

The SRX Wireless Headset is the only Bluetooth headset which will work with Talkman A500 and T5 series devices. This headset supports the audio compression and decompression necessary to delivery error free voice recognition. Commercial headsets are not capable of this level of support.

Vocollect Connector for Wired Scanners

Honeywell systems are designed to accommodate interfaces at a specific connection point. The Talkman Breakaway Connector, or TCO, was carefully designed to meet several design constraints.

- Dirt and debris can collect in recessed surfaces. The TCO has a flat external connection surface that prevents this problem. The connector end on the unit is sealed to protect the unit from dirt and dust.
- · For safety, the connectors break away if a force strong enough to pull the wearer off-balance is exerted.
- The connectors are keyed, so that only the correct TCO cable (i.e. headset, barcode or printer) may be inserted in any given TCO connection point.
- The connector is extremely rugged.

These features make the connectors suitable for the extremes of a production environment. They also decrease the need for service of the unit because of connector issues or failures.

Vocollect Connector Pin Specifications

Note: Cable colors may change without notice. Please contact Honeywell with any questions regarding this procedure.

Pin	Purpose	Color
1	Not used	Bare Wire
2	Power (+5 volts)	Red
3	Not used	White
4	Not used	Green
5	Receive data (RXD)	Blue
6	Transmit data (TXD)	Gray
7	Not used	Orange
8	Ground	Black



Figure 1: Vocollect Connector Pin Specifications

Connecting Peripherals to a Talkman Device

For T2 Series devices, match the color on the device's connection port to the color on the connector.

- Headsets: Yellow port
- Bar code readers: Blue port
- Visual training devices, wired portable speakers, wireless listening systems, portable printers: Red port

For the A720, A500 and T5 devices, match the color on the device's connection port to the color on the connector.

- Headsets: Yellow port
- · All other peripherals: The port designated by red and blue indicators
- Note: When you attach a peripheral to an A500 or T5-series device, the device may automatically shut down if the peripheral is powered on when attached to the cable. If this happens, reboot the device.
- 1. Attach the cable to the device.



Figure 2: Connecting the Cable to the Talkman Device

- 2. Make sure the peripheral is off.
- 3. Connect the cable to the peripheral.
- 4. Turn the peripheral on.
 - To connect the SL-4 light duty behind-the-head headset to a Talkman T1 device, insert the IOC connector on the end of the headset cable into the connection port on the T1 device.

• To connect the SR-21 Universal Lightweight Headset to a handheld device, insert the 2.5mm universal connector on the end of the headset wire into the connection port on the handheld device.

Disconnecting Peripherals from a Talkman Device

Caution: Never pull on the cable or twist the connector to disconnect it from the device. Doing so will damage the cable and connector, and invalidate the headset's warranty.

- **1.** Grasp the connector.
- 2. Press the connector's release lever.
- **3.** Tilt the bottom of the connector off the device.
- 4. Lift the connector up and off the device.
 - To disconnect the SL-4 light industrial behind-the-head headset from a Talkman T1 device, grasp the IOC connector on the end of the headset cable and pull it out of the connection port on the T1 device. Do not pull the headset wire.
 - To disconnect the SR-21 Universal Lightweight Headset from a handheld device, grasp the 2.5mm universal connector on the end of the headset wire and pull it out of the connection port. Do not pull the headset wire.

Scanner Connections for Wired Scanners

Scanners typically require two connections, one for data and one for power. The data connection is typically a DB9. The only pins used by the system are pins 2 (receive), 3 (transmit) and 5 (signal ground). Power connections can be unique, and voltage ranges can vary.



Figure 3: Male DB9 showing pin numbing

Most scanners powered by 5V DC include a modular cable that can be refitted to work with the system.

Vocollect offers cables with the TCO on one end and an unterminated 5V DC connection on the other. This may easily be re-terminated and connected to a scanner.

Vocollect offers cables with the TCO and RJ-11 connectors as well as those without any RJ-11 connectors. For those without RJ-11 connectors, customers can attach any RJ-11 connector they have wired to match their own scanner's specific pin assignments. These cables are discussed in the **Cable Options Available from Vocollect** section.

Vocollect Bar Code Serial Interface Cable

- The Vocollect bar code serial interface cable (part # BC-606-1) connects compatible bar code readers to devices.
- The serial device that is being connected to the device must meet the following criteria: The device must support serial communications. The device must be decoded (as opposed to undecoded). The device must operate on five volts (+5V).
- For proper operation, the ground, power, and receive data connections must be made.

• The transmit data (TXD) connection from the serial device must be connected to the receive data (RXD) connection of the Vocollect cable.

Wired Interface Protocol

The T5 Series and T2 Series terminals support an RS-232 interface. "RS" is an abbreviation for "Recommended Standard" of the Electronic Industries Alliance (EIA). This standard provides a way for character-oriented devices to exchange data. It determines some of the basic electrical characteristics of the interface.

There are several parameters that are important to understand when configuring RS-232 devices. One important parameter is flow control, which is how devices tell each other to start or stop transmitting data. The RS-232 device itself does not use flow control for barcode reading because of the very small amount of data actually transmitted.

Other parameters important to transmission are configured in the device profile in VoiceConsole (advanced settings of the task package, or task .vcf file if using older Talkman Management Software - TMS). These parameters are summarized at the end of this document.

By default, many devices will transmit and receive data using ASCII encoding with 8 bits for data, 9600 bps (bits per second), no parity bit, and one stop bit, terminating their input with a carriage return/line feed.

Vocollect device configuration is extremely flexible. However, it is important to remember that the RS-232 device parameters also can be modified for compatibility with the Vocollect system. Most scanners come with configuration sheets or reference material that allows the scanner's basic data format or transmission characteristics to be changed when the scanner scans the material.

Frequently, customers will create a custom configuration sheet that can be quickly used to tailor a scanner to their particular communication and protocol needs.

Vocollect Bar Code Device Adapter

- The Vocollect bar code device adapter connects compatible RS-232 bar code devices to Talkman devices.
- The bar code device that is being connected to the Talkman device must meet the following criteria:
 - The device must support RS-232.
 - The device must be decoded (as opposed to undecoded).
 - The device must operate on five volts (+5V).
- This adapter is to be used only with bar code devices that are not powered through their own RS-232 connection.

Data Encoding

The **Wired Interface Protocol** section discussed the basic transmission specifications for data. It is important to note that the input/output system of the Talkman is structured to deal with character-oriented data. This will typically be ASCII code.

This does not preclude the Talkman from dealing with more-complex character sets such as Unicode. The system can accommodate Unicode Transmission Format (UTF) in either 8-bit or 16-bit implementations. The system was not designed to deal with input and output devices that cannot provide or accept *decoded* data into an RS-232 stream that is character oriented.

Printer Options

The Talkman device hardware and robust software is flexible enough to accommodate a variety of printing needs. The combination of the Vocollect system and wearable printer communicating over a WLAN can be an ideal enhancement to workflows which require immediate printing.

Stationary Printers

As the name implies, these printers are at a fixed location and are typically shared among many users. Vocollect software, working in conjunction with the Wireless Local Area Network (WLAN), sometimes called Radio Frequency LAN (RFLAN), can make a request to a server system and initiate printing. Vocollect VoiceLink[®] software may moderate the printing or a Warehouse Management System (WMS) may be used to control this type of host based printing.

Troubleshooting Stationary Printers

Stationary printers may not print for several reasons.

- Supplies may be low it's important to have supplies of paper, labels, ribbons or toner readily available.
- Power or data communications may be interrupted, procedures for checking power or cabling should be posted if this is a possible issue with the printer.
- Server print queue may be stalled or the server may be down, it will be necessary to contact the party responsible for the printer (typically the Information Technology Department) to resolve the issue.

Because printing may be an integral part of a workflow servicing many workers it's important to have clearly posted troubleshooting/resolution procedure posted or a way to contact someone who can rapidly assist in resolving the printing issue.

Wearable Printers

It may be more convenient or necessary for individual workers to be able to print from their location for the purposes of affixing labels as part of their work operations.

Wearable printers, such as the PB50 from Intermec, can be an ideal choice for this type of operation. These printers typically offer various interface modes including RS-232, WLAN or Bluetooth. (Note that Bluetooth printing is not supported on the T2 Series devices.)

- WLAN via an Output Data Record (ODR) A Vocollect task loaded on the T5 Series or T2 Series devices can send output to an ODR that is associated with a specific printer. A table of printers and their associated TCP/IP (network) addresses or names can be built into the task. The operator may simply voice select the desired printer at the beginning of a shift to associate a particular mobile printer with their terminal for the duration of the shift.
- WLAN via a server system Similar to a stationary printer, the T5 Series or T2 Series devices may be able to make a request to a central server system to initiate printing to a specific mobile printer via voice selection. The ability to do this depends on the type of server software being used in conjunction with the T5 Series or T2 Series devices and also may require more system management support to tend to multiple output queues.
- RS-232 interfaced printers These printers are appropriate only for printing small amounts of data. T5 Series and T2 Series devices do not support the hardware or software flow control needed to moderate a large data transfer at high speed. Using these printers requires that the operator be tethered to the printer with a cable.

Wireless Bluetooth printers are also available. These are discussed later in this document.

Troubleshooting Wearable Printers

The following issues can occur with wearable printers.

- Battery wear just like all mobile devices printer batteries are subject to wear. If a mobile printer does not function, a good first step is to assure that its battery is in charged.
- Cord deterioration repeated bending, pulling and stretching of the cord via normal wear and tear can cause it to fail. If a wired wearable printer is not printing, testing it with a cord that is known to be good may resolve the issue.
- Paper or ribbon issues it's important to have supplies on-hand so that workers can quickly have them replenished.

Chapter 5

Understanding Bluetooth

Bluetooth is a wireless communication protocol that permits a small personal area network or pico-net (small network) to be created among devices. Because it eliminates tethering the devices together with a cord it can be very valuable as a connection technology, saving workers' time untangling cords, decreasing maintenance costs associated with cord replacement, and increasing overall workplace safety.

Bluetooth for scanning, printing and display on the A700 Solution, A500, T5 Series and T2 Series devices uses the serial port protocol. Talkman A500 and T5 series uses a compressed data protocol to provide quality speech recognition and requires the use of an SRX headset. (Off-the-shelf headsets will not function with Talkman T5 series systems.)

Bluetooth devices identify themselves by a unique 12 hexadecimal digit address, typically specified in pairs of numbers separated by a colon (i.e. 08:00:2B:CF:3D:13). In order to initiate a connection to a device this Media Access Control (MAC) address must be specified.

Bluetooth Range

Bluetooth is implemented in two ranges or classes, Class 1 (approximately 100 meters or 300 feet) and Class 2 (approximately 10 meters or 30 feet). Because Bluetooth operates within the same frequency band, it can interfere with 802.11b/g wireless network traffic. Honeywell strongly recommends exclusive use of Class 2 Bluetooth devices whenever possible.

Important: Honeywell strongly cautions against the use of Class 1 Bluetooth devices because of their potential to interfere with wireless network traffic over a very long range.

Bluetooth Device Roles

A Bluetooth device can function either as an acceptor of an incoming connection from a corresponding initiator or as an initiator of an outgoing connection to a corresponding acceptor.

Bluetooth Security

Bluetooth devices support a security ID which typically may be enabled or disabled as an option. This is useful mostly for devices that are deployed in a general population. Because of the limited range of Bluetooth Class 2 devices, and the restriction of its use with a specific Vocollect device application, it is unlikely that using or implementing this feature would provide value in typical environments using the A700 Solution, A500, T5 Series and T2 Series devices.

Bluetooth Scanner Considerations

Honeywell recommends selecting Bluetooth scanners that are:

- · Class 2 devices, to limit any potential wireless network interference.
- Support the Bluetooth Serial Port Protocol (SPP) for data transmission.
- Do not require security options.
- May be programmed easily via barcodes. Workers scan the barcodes in order to set up scanners or reconfigure them to re-pair with different devices. This is much easier than finding a supervisor when it is needed to edit a static configuration in VoiceConsole.

In applications using several scanners, Honeywell recommends associating (pairing) the reader with its base unit during idle periods, or turning it off. Typically, pairing with the charging base is done by scanning the bar-code at the reader's charging base or a code break (unpair) the connection. Unconnected Bluetooth devices that are still logically paired will often 'page' to try to re-pair. This can create significant increases in Bluetooth activity and possibly impact wireless network performance. Ensuring that unused active devices are always paired reduces this possibility.

Bluetooth Printer Considerations

Bluetooth printers typically will function as acceptors. Unlike scanners which allow input via barcodes, printer configuration is frequently done with special management software with only limited controls available to the worker.

When planning to implement Bluetooth printers, consider permanently associating or pairing each printer with a specific T5 Series or an A500 device to avoid the need for management intervention to reassign printer pairing with devices.

As with scanners, T5 Series devices and A500 device support the Bluetooth Serial Port Protocol (SPP) as a means of communicating with the printer.
Chapter 6

Understanding Bluetooth Pairing

Basic Bluetooth Roles and Concepts

Pairing: Pairing is the process in which two devices enabled with Bluetooth wireless technology create a secure link in order to share information. Each of the two devices is configured in a different pairing mode. These modes are:

- **Acceptor** the device configured as an acceptor will accept a connection from the other device. It will not attempt to actively connect to any other device. It may require some security information from the initiator device before accepting the connection.
- **Initiator** the device will actively search for (page) and connect to the other device (which must be discoverable and configured as an acceptor). If security settings have been configured on the initiator device, it may need to present these settings to the acceptor to complete the connection.

The pairing process begins when the initiator device broadcasts an inquiry to search for discoverable Bluetooth addresses of acceptor devices.

MAC address: Bluetooth devices such as scanners are identified by a unique 12 hexadecimal (base 16) address (i.e. composed of the numbers 0-9 and letters A-F, typically expressed in pairs separated by "-" or ":" such as 08-00-2B-1F-3D-47 or 00:00:2F:E0:BC:7C). This address is sometimes called the Bluetooth MAC address, or simply the MAC (Media Access Control) address.

Talkman T5 Series and A500 terminals have this address as a barcode on the rear of the terminal on the label printed with "BT" for "Bluetooth." Similarly most scanners will also have their Bluetooth address printed and/or expressed in bar code on the device.

Bluetooth with Talkman A700 Solution, A500, and T5/T5m

VoiceConsole software is used to enable or disable the integral Bluetooth functionality on A700 Solution, A500, and T5 Series devices. Options may be changed in VoiceConsole or in the Talkman device profile. Whenever possible Honeywell recommends using options placed in the device profile.

The general checklist for enabling and using Bluetooth for the A700 Solution, A500, and T5 Series devices for scanning and printing includes:

VoiceConsole Setting	Device Profile Setting
Ensure the Enable Bluetooth box is checked	Bluethooth_IsEnabled= <true false="" or=""></true>
Enable the specific port function (scanning or printing)	BarcodeBt_IsInitiator=< <i>true or false</i> > (for scanner) PrinterBt IsInitiator=< <i>true or false</i> > (for printer)
Set the specific port as an acceptor or initiator	

VoiceConsole Setting	Device Profile Setting
Set the security PIN if needed	BarcodeBt_SecurityPIN=< <i>character string</i> > (for scanner)
	PrinterBt_SecurityPIN=< <i>character string</i> > (for printer)
For initiator mode, specify the MAC address of the Bluetooth device to be used	BarcodeBt_Address=< <i>MAC address</i> > (for scanner)
	PrinterBt_Address=< <i>MAC address</i> > (for printer)
	Enter the MAC address without separator characters, i.e. 08002B1C3DA5

Ensure that the scanning (Barcode Port) or printing port (Printer Port) is specified as "BT_SCAN" or "BT_PRINT" as appropriate in the .vcf file settings.

Alternatively, Bluetooth can be enabled by adding configurable parameters to the advanced settings of the device profile. It is not recommended that the parameters be placed in the task package.

It is important to remember that the use of a Bluetooth function (scanning, printing or headset) disables the physical port on the A700 Solution, A500, and T5 Series device for that use.

Bluetooth with Talkman T2x

The Talkman T2x supports the T2x Bluetooth Serial Adapater, which fits on the scanning port and functions as a Bluetooth acceptor with no security options. Its presence is transparent to the T2x device, meaning that no changes are required to a task or associated files to switch from a wired scanner to a Bluetooth device when using this adapter provided that the scanner can be set up with the same characteristics (speed, data format, termination characteristics) as the wired scanner that it is replacing.

The MAC address of the serial adapter is clearly printed on the adapter label. To connect to this port, a scanner must support the serial port protocol and be capable of initiating a connection to a specific Bluetooth address.

Configuring Talkman A700 Solution, A500, and T5 Series Bluetooth Capabilities with VoiceConsole

You can enable Bluetooth on Talkman A700 Solution, A500, and T5 Series devices using VoiceConsole[®]. Once enabled, the Talkman can be paired with a Bluetooth peripheral device. The pairing can be initiated by either device.

Pairing Initiated by a Talkman Device

This method of pairing is useful if a single Talkman device will always be associated with one scanner. If the communication link is disrupted and the scanner disconnects from the Talkman device, the device typically recovers the connection automatically. Additionally, the consistent pairing makes troubleshooting easier.

This method, however, may restrict use to ways that are not convenient. One disadvantage is that the scanner must be swapped out using VoiceConsole if there is a problem.

To enable a Talkman device to initiate a connection with a Bluetooth device you will need:

- The Bluetooth address of the Bluetooth device as well as the security code (if security on the device is enabled) for the device.
- Access to VoiceConsole to set up the pairing. For production use, Honeywell recommends that you create a specific device profile in VoiceConsole to store many of the following settings.
- Pairing instructions specific to your scanner. See the appendices for information on specific models.

For this one-to-one pairing, consider labeling both devices so that the correct pairs are consistently used.

- 1. Using VoiceConsole, locate the specific Talkman device to be paired with the scanner.
- 2. View the properties of the device, and ensure that Bluetooth is enabled. If it is not enabled, click Edit this device and set Bluetooth Enabled to "enabled." A device profile can include the parameter Bluetooth_IsEnabled set to TRUE in the advanced settings.
- 3. Select the **Pair this device with a peripheral** option.
- 4. For **Pairing Type** select "Bluetooth Scanner." The parameter BarcodePort can be set to BT_SCAN for scanners or BT_PRINT for printers. Configure this parameter in the advanced settings of the task package.
- 5. For Connection Mode select "Device initaties connection with peripheral."
- 6. In the **Bluetooth Adress** enter the Bluetooth MAC address of the scanner. This 12-character ID is labeled "MAC ID" and is found on the device label.
- 7. For Security select "Enabled" if a security key is required.
- 8. For the Security Key enter four zeros (0000). Skip this step if a security key is not required.
- 9. Click Pair with peripheral to initiate pairing.

Note that you can also import a list of connected devices and set up those connections in VoiceConsole. This "bulk pair" option may be useful in some situations.

Pairing Initiated by a Bluetooth Device

This method of pairing is useful if a scanner or printer will be used with more than one Talkman A700 Solution, A500, or T5 Series device. It is usually more advantageous to allow a device to actively pair with the Talkman as opposed to having Talkman initiate the pairing, permitting any Talkman to be used with any device.

This pairing can be easily done with most scanners; however printers may not have the capability to initiate the pairing process.

To enable a Talkman device to listen for a connection with a Bluetooth device you will need:

- Access to VoiceConsole to set up the pairing. For production use, Honeywell recommends that you create a specific device profile in VoiceConsole to store many of the following settings.
- Pairing instructions specific to your scanner. See the appendices for information on specific models.
- 1. Generate a bar code for pairing. See *Barcode Identifier Label for Pairing Scanners* for more information. If the scanner can be paired with a single barcode, that sequence can be printed as a label and placed on the Talkman device. Workers who need to pair the scanner can then simply pick up the Talkman and scan this code.
- 2. Using VoiceConsole, locate the specific device to be paired with the scanner.
- 3. View the properties of the device, and ensure that Bluetooth is enabled. If it is not enabled, click Edit this device and set Bluetooth Enabled to "enabled."

A device profile can include the parameter Bluetooth_IsEnabled set to TRUE in the advanced settings.

- 4. Select the Pair this device with a peripheral option.
- 5. For Pairing Type select "Bluetooth Scanner."

The parameter BarcodePort can be set to BT_SCAN for scanners or BT_PRINT for printers. Configure this parameter in the advanced settings of the task package.

- 6. For Connection Mode select "Device listens for peripheral connection."
- 7. For **Security** select "Enabled" if security is required.
- 8. For Security Key enter four zeros "0000." Skip this step if a security key is not required.
- 9. Click Pair with peripheral to initiate pairing.
- 10. To complete the pairing, scan the bar code created for the device in the first step.
- **11.** When finished using the Talkman and scanner, unpair the Talkman to set the scanner to acceptor mode.

Performing this step ensures that the scanner does not generate spurious Bluetooth RF that could interfere with other transmissions. When an initiator device becomes unpaired, such as when the Talkman device is turned off, the initiator will try to re-pair by paging or sending repeated bursts of Bluetooth radio traffic through the air. Either pairing the scanner with its base station or setting the scanner to an "acceptor" mode will stop this behavior.

Bar Code Identifier Label for Pairing Scanners

If you want a scanner to initiate pairing with a Talkman device, you must generate the bar code specific to that scanner. You can find several commercial software packages as well as freeware on the Internet that can be used to create bar codes.

Generally, the bar code created to pair a scanner with a Talkman device is composed of a control sequence that is unique to each scanner type and brand. Some scanners require a control sequence followed by the MAC address of the destination, both of which can be represented as a single bar code. Other scanners require separate scans of a control sequence and destination MAC address. In all cases, however, it will be necessary to know the destination MAC address of the Talkman device in order to create a barcode that can be printed and read for pairing to that Talkman.

Note: While the MAC addresses of Talkman A500 and T5 Series devices appear as a bar code labels on these devices, scanning those bar codes will not initiate pairing because they do not contain control sequences.

Many scanners use a code referred to as "FNC3" to initiate a programming sequence. FNC3 can be entered using the numeric keypad (not regular keys) while holding down the ALT key and entering 0179. The numeric keypad must be used to enter this combination; it will not work using the regular number keys.

It is important to read and understand the unique configurations that each scanner may require to successfully pair it with Talkman devices. There may also be specific scanner behaviors that must be changed to meet operational needs (such as power-off timeouts, disconnection timeouts, etc.)

About Pairing Other Peripheral Devices

- Pairing recommendations may differ from peripheral to peripheral and configuration. Please see your device and peripheral documentation.
- If you are using Bluetooth, ensure that the Bluetooth radio has been turned on through the device's operating system. Most devices have the ability to turn the Bluetooth radio on or off. For power consumption reasons, when Bluetooth is not in use, the Bluetooth radio should be turned off. This process differs per device. Please see your device and peripheral documentation.
- If the peripheral with which you are trying to pair does not show up on the list of devices within range, that peripheral may already be paired with another device. Disconnect the pairing and scan for the desired peripheral again.
- A Bluetooth scanner should beep when it pairs with a device. If you do not hear a tone, restart the handheld device.

- At the end of a shift, disconnect any active Bluetooth pairing so that the peripheral is free to pair with another device. You can do this via VoiceConsole by in **Device Management**.
- Pairings with additional Bluetooth peripheral devices can degrade the performance of printers and scanners that are already paired with your Talkman device. To improve performance, delete pairings that are not in use from the Talkman device.

Note: See Vocollect VoiceConsole help for details on how to pair and manage devices using *VoiceConsole*.

Pairing a Bluetooth Printer With a Psion Omnii XT15 Handheld Computers Running Windows CE

This procedure is for:

- Psion Omnii XT15 handheld computers
- 1. On the device, turn Bluetooth on.
- 2. On the **Mode** tab of the **Bluetooth** window, select **BSP0** from the **Printer Port** drop-down list and select the **Printer Port** checkbox.

Note: In *VoiceConsole*, you must set the printer port in the task package for the device as "printerport"="BS".

- 3. Turn the printer on.
- **4.** On the device, on the **Device** tab of the **Bluetooth** window, tap **Scan**. Wait while the device scans for Bluetooth peripherals within range.
- **5.** When the device finishes scanning, on the **Device** tab of the **Bluetooth** window, find the printer in the list of discovered devices.
- 6. Tap and hold on the line for the printer, and select **Pair**. The **Services** window opens.

Note: If an authentication window displays and the peripheral does not require a passcode, tap Next.

- 7. Activate the **Serial Port** check box. The **Serial Profile** window opens.
- 8. From the Mode drop-down list, select PrinterPort.
- **9.** Tap **Next**. The **Services** window opens displaying the peripheral.
- 10. Tap Done.
- 11. Ensure the printer is listed on the **Paired** tab of the **Bluetooth** window.
- 12. If it is, tap OK.
- 13. Start Vocollect Voice and load and begin the scan and print task.
- 14. Select the print from the window that displays when the task begins. The printer is paired.

Pairing a Bluetooth Scanner or Printer With a Honeywell LXE Device

This procedure is for:

- MX7 Handheld Computer
- HX2 Wearable Computer
- 1. Ensure Bluetooth is enabled on the device and the scanner/printer is on.

When Bluetooth is enabled on the device, the Bluetooth indicator blinks blue on the device. and the icon displays in the taskbar.

- 2. In the Control Panel, doubletap Bluetooth.
- **3.** In the **Bluetooth Devices** tab of the **Pairing** window, tap **Discover**. Wait while the device scans for Bluetooth peripherals within range.
- 4. When the device finishes scanning, find your printer or scanner by locating it in the **Bluetooth Devices** list
- 5. Doubletap the name of your printer or scanner. The device properties list displays.
- 6. Tap Pair as Scanner or Pair as Printer.

Pairing a Bluetooth Printer With a Honeywell Tecton Device

This procedure is for:

- Tecton mobile computers running Microsoft Windows CE 6.0
- 1. Ensure Bluetooth is enabled on the Tecton device and the printer is on.
- 2. On the Bluetooth tab under Settings, select Printer Port-COM9.
- **3.** Tap and hold on the name of the printer in the list of discovered bluetooth devices on the Tecton device, and select **Pair as Printer**.
- 4. In *VoiceConsole*, edit the task you are using by setting **printerport = COM9** in the task's advanced settings.
- **5.** Start *Vocollect Voice*. The printer and Tecton device are paired.

Pairing a WiFi Printer With a Honeywell Tecton Device

This procedure is for:

- Tecton mobile computers running Microsoft Windows CE 6.0
- 1. In *VoiceConsole*, set the pairing type of the Tecton device to **Network Printer**, and enter a pairing name, host, and set the **Port** field to **9100**.
- 2. In *VoiceConsole*, edit the task you are using by setting **printerport = network_print** in the task's advanced settings.
- **3.** Start *Vocollect Voice*. The printer and Tecton device are paired.

Pairing a Bluetooth Printer With a Psion Device Running Windows Mobile

Note: Psion devices running Windows Mobile is only supported on Vocollect Voice for Handhelds 1.3 and earlier.

- 1. Ensure Bluetooth in enabled.
- 2. On the **Devices** tab, tap **Add new device** and follow the onscreen prompts while it searches for your Bluetooth printer.
- **3.** Ensure the printer's COM port number matches the COM port number of the task package in VoiceConsole.
- **4.** Apply the PrinterPort advanced setting to your task, with the port number equal to BSP*x* or COM*x*, where *x* is the number of the printer's COM port.

5. Load the updated task onto your device.

Pairing a Bluetooth Scanner or Printer With a Psion Device Running Windows CE

This procedure is for:

- WORKABOUT Pro[®] Speech[™] 3 (7527) devices running Vocollect Voice 1.2 for Psion[®] WORKABOUT Pro[®] 7527 or newer
- WORKABOUT Pro[®] Speech[™] G2 (7527) devices running Vocollect Voice 1.3 for Psion[®] WORKABOUT Pro[®] Speech 3, WORKABOUT Pro Speech G2 and NEO
- NEO[™] devices running Vocollect VoiceClient 1.3. for Psion[®] WORKABOUT Pro[®] Speech 3, WORKABOUT Pro Speech G2 and NEO
- 1. In the Control Panel, open Power.
- 2. In the **Built-in Devices** tab of the **Power Properties** window, activate the **Enable Bluetooth** check box.
- 3. Tap OK.

When Bluetooth is enabled, the *icon displays in the taskbar*.

- 4. In the Control Panel, open Bluetooth.
- 5. In the **Device** tab of the **Bluetooth** window, tap **Scan**. Wait while the device scans for Bluetooth peripherals within range.
- 6. When the device finishes scanning, find your printer or scanner by locating its Bluetooth address in the Address list
- 7. Tap the name of your printer or scanner.
- 8. Tap **Pair**.

The **Services** window opens.

Note: If an authentication window displays and the peripheral does not require a passcode, tap Next.

- **9.** Activate the **Serial Port** check box. The **Serial Profile** window opens.
- 10. Ensure Encryption is set to Disabled.
- **11.** If you are pairing a printer, select **Printer** from the **Mode** drop-down list. If you are pairing a scanner, select **Scanner** from the **Mode** drop-down list.
- 12. Select the first BSP port available in the Port drop-down list.
- 13. Tap Next.

The Services window opens displaying the peripheral and the port.

- 14. Tap Done.
- 15. Tap OK.
- **16.** Ensure the printer or scanner's BSP port number matches the BSP port number of the task package in *VoiceConsole*.
- **17.** Apply either the BarcodePort or PrinterPort advanced setting to your task, with the port number equal to BSP*x*, where *x* is the number of the printer or scanner's BSP port.
- 18. Load the updated task onto your device.

Pairing a Bluetooth Scanner or Printer With a Psion WORKABOUT PRO G2 Device Running Windows CE

This procedure is for WORKABOUT Pro Speech[™] G2 (7527) devices running Vocollect VoiceClient 1.2 for Psion WORKABOUT PRO 7527.

- 1. Open Wireless Manager.
- 2. Activate the Enable Bluetooth check box.
- 3. Tap OK.

When Bluetooth is enabled, the *icon* displays in the taskbar.

- 4. In the Control Panel, open Bluetooth Devices.
- 5. On the **Properties** tab, change the Port Prefix to BSP.
- 6. In the **Devices** tab of the **Bluetooth Manager** window, tap **Scan**. Wait while the device scans for Bluetooth peripherals within range.
- 7. When the device finishes scanning, find your printer or scanner by locating its Bluetooth address in the **Address** list.
- 8. Tap the name of your printer or scanner.
- 9. Tap Services.
- 10. Double-click the type of peripheral (printer or scanner) that you want to pair.
- **11.** Select **Active** from the popup box. The corresponding BSP port appears under the **Port** column.
- 12. Ensure the printer or scanner's BSP port number matches the BSP port number of the task package in VoiceConsole.
- **13.** Apply either the BarcodePort or PrinterPort advanced setting to your task, with the port number equal to BSP*x*, where *x* is the number of the printer or scanner's BSP port.
- 14. Load the updated task onto your device.

Pairing a Bluetooth Scanner With an Intermec CK3X, CK71 or 70-Series Device Using Search

- Note: The following processes assume use of the Intermec device as the initiator. If you would like to configure your scanner to be the initiator of the pairing, see the scanner's documentation for more information. If you pair the scanner with the scanner as the initiator and assign the scanner to a serial port, you must enter or edit the value of the BarcodePort advanced setting to equal the serial port after you pair for the scanner and Intermec device to be properly paired.
- 1. Make sure the scanner is on and is discoverable. See the scanner's documentation for more information.
- 2. On the Intermec device, tap **Start > Settings**.
- 3. On the Intermec device, on the System tab of the Settings screen, tap Wireless Scanning.
- 4. On the next screen, tap Add Device.
- 5. Select if want to search for all available Bluetooth scanners, and tap Next.

The device searches for all Bluetooth devices within range to which it can be paired. Once the search has completed, the device displays the Bluetooth devices found.

If you do not see the scanner you want to pair within the list, deselect the **Scanners Only** checkbox. If the scanner is still not available within the list, ensure the scanner is on and is discoverable, and tap **Search**.

6. Select the scanner from the **Devices** list.

- 7. Under Connection Method, select Data Collection if you are pairing with an Intermec device or select Serial Port if you are pairing with a different type of scanner.
- 8. Tap Next.
- 9. If you selected Serial Port, select the serial port you want to use for the scanner, and tap Next.

Note: It is important you remember the serial port you select. After you finish setting up the scanner, you must edit or enter the value of the BarcodePort advanced setting with this serial port.

10. Tap Finish.

If you selected **Data Collection**, the scanner pairs with the Intermec device. If you selected **Serial Port**, the scanner does not pair with the Intermec device until you complete the next step.

- 11. If you selected **Serial Port** as the connection method for the scanner, you must now enter or edit the value of the BarcodePort advanced setting to equal the serial port you assigned to the scanner, for example: BarcodePort=BSP3.
- 12. On the Intermec device, tap **Start > Settings**.
- 13. On the System tab of the Settings screen, tap Intermec Settings.
- 14. On the Intermec Settings screen, tap **Data Collection**. The scanner's name will appear on the Data Collection screen.
- Select the scanner. A list of available settings will appear.
- 16. Select Scanner Settings.
- 17. Activate the Hardware Trigger check box.

18. Tap OK.

Vocollect Voice software will now allow input from the external scanner you are using.

Pairing a Bluetooth Scanner With an Intermec CK3X, CK71 or 70-Series Device Using Quick Connect

- Note: The following processes assume use of the Intermec device as the initiator. If you would like to configure your scanner to be the initiator of the pairing, see the scanner's documentation for more information. If you pair the scanner with the scanner as the initiator and assign the scanner to a serial port, you must enter or edit the value of the BarcodePort advanced setting to equal the serial port after you pair for the scanner and Intermec device to be properly paired.
- 1. Make sure the scanner is on and is discoverable. See the scanner's documentation for more information.
- 2. On the Intermec device, tap **Start > Settings**.
- 3. On the Intermec device, on the System tab of the Settings screen, tap Wireless Scanning.
- 4. On the next screen, tap Add Device.
- 5. Select if you are pairing an Intermec scanner, and tap Next.
- **6.** Scan the barcode that appears on the screen with the Intermec scanner. A Bluetooth dialog box opens.
- 7. In the Bluetooth dialog box, tap **Yes** to add the scanner to the list of devices paired with the Intermec device.
- **8.** If prompted, enter the passcode for the scanner, and tap **Next**. The default passcode for the SF51 and SR61-series scanners is 0000.
- 9. Tap Finish.
 - The scanner pairs with the Intermec device.
- **10.** On the Intermec device, tap **Start > Settings**.
- 11. On the System tab of the Settings screen, tap Intermec Settings.

- 12. On the Intermec Settings screen, tap **Data Collection**. The scanner's name will appear on the Data Collection screen.
- **13.** Select the scanner. A list of available settings will appear.
- 14. Select Scanner Settings.
- 15. Activate the Hardware Trigger check box.
- 16. Tap OK.

Vocollect Voice software will now allow input from the external scanner you are using.

Pairing a Bluetooth Scanner With an Intermec CK3X, CK71 or 70-Series Device Manually

- Note: The following processes assume use of the Intermec device as the initiator. If you would like to configure your scanner to be the initiator of the pairing, see the scanner's documentation for more information. If you pair the scanner with the scanner as the initiator and assign the scanner to a serial port, you must enter or edit the value of the BarcodePort advanced setting to equal the serial port after you pair for the scanner and Intermec device to be properly paired.
- 1. Make sure the scanner is on and is discoverable. See the scanner's documentation for more information.
- 2. On the Intermec device, tap Start > Settings .
- 3. On the Intermec device, on the System tab of the Settings screen, tap Wireless Scanning.
- 4. On the next screen, tap Add Device.
- 5. Tap Next.
- 6. Enter the scanner's Bluetooth address.
- 7. Under Connection Method, select Data Collection if you are pairing with an Intermec device or select Serial Port if you are pairing with a different type of scanner.
- 8. Tap Next.
- 9. If you selected Serial Port, select the serial port you want to use for the scanner, and tap Next.
 - Note: It is important you remember the serial port you select. After you finish setting up the scanner, you must edit or enter the value of the BarcodePort advanced setting with this serial port.
- 10. Tap Finish.

If you selected **Data Collection**, the scanner pairs with the Intermec device. If you selected **Serial Port**, the scanner does not pair with the Intermec device until you complete the next step.

- 11. If you selected **Serial Port** as the connection method for the scanner, you must now enter or edit the value of the BarcodePort advanced setting to equal the serial port you assigned to the scanner, for example: BarcodePort=BSP3.
- 12. On the Intermec device, tap **Start > Settings**.
- 13. On the System tab of the Settings screen, tap Intermec Settings.
- 14. On the Intermec Settings screen, tap **Data Collection**. The scanner's name will appear on the Data Collection screen.
- **15.** Select the scanner.
 - A list of available settings will appear.
- 16. Select Scanner Settings.
- 17. Activate the Hardware Trigger check box.

18. Tap OK.

Vocollect Voice software will now allow input from the external scanner you are using.

Configuring an Intermec Device for Bar Code Reader Input to Vocollect Voice Software

How to configure an Intermec device so that Vocollect Voice software can accept input from an external bar code reader.

These steps must be performed after pairing an Intermec device to a bar code reader.

- 1. On the Intermec device, tap **Start > Settings**.
- 2. On the System tab of the Settings screen, tap Intermec Settings.
- **3.** On the Intermec Settings screen, tap **Data Collection**. The scanner's name will appear on the Data Collection screen.
- 4. Select the scanner. A list of available settings will appear.
- 5. Select Scanner Settings.
- 6. Activate the Hardware Trigger check box.
- 7. Tap OK.

Vocollect Voice software will now allow input from the external scanner you are using.

Chapter 7

Peripheral Display

The Talkman A500 was the first Vocollect device to support a display peripheral. This display has potential to improve the productivity and accuracy of voice-centric warehouse workers in workflows like receiving.

This device can support display applications through a wireless Bluetooth PAN (Personal Area Network) or Wi-Fi network connection. The browser on the display device can communicate to the VoiceApplication on Talkman using the HTTP protocol.

Developers can also write their own applications to talk with Talkman devices using the HTTP protocol.

Important: The mongoose server is used by default. If the application is developed specifically for the python webserver, mongoose must be disabled by setting DisableMongoose=1 in the device profile.

Bluetooth Display Pairing Initiated by a Talkman Device

To enable a Talkman device to initiate a connection with a display device you will need:

- The Bluetooth MAC address of the display device. Using this address, the Talkman pairs with the display device as the initiator.
- Access to VoiceConsole to set up the pairing.
- · Pairing instructions specific to your display device.
- 1. Set the display device in Bluetooth discoverable mode for the Talkman device to initiate a pairing.
- 2. Using VoiceConsole, locate the specific Talkman device to be paired with the display device.
- 3. View the properties of the device, and ensure that Bluetooth is enabled. If it is not enabled, click Edit this device and set Bluetooth Enabled to "enabled." A device profile can include the parameter Bluetooth_IsEnabled set to TRUE in the advanced settings.
- 4. Select the **Pair this device with a peripheral** option.
- 5. For **Pairing Type** select "Display" and enter a **Pairing Name**.
- 6. For Connection Mode select "Device initaties connection with peripheral."
- 7. In the Bluetooth Adress enter the Bluetooth MAC address of the device.
- 8. Click Pair with peripheral to initiate pairing.

Most displays will have a "Bluetooth pairing complete" notification after the pairing is successful.

Pairing Initiated by a Bluetooth Display Device

To enable a Talkman device to listen for a connection with a Bluetooth device you will need:

- Access to VoiceConsole to set up the Talkman device.
- · Pairing instructions specific to your display device.
- 1. Using VoiceConsole, locate the specific Talkman device to be paired with the display.

2. View the properties of the Talkman device, and ensure that Bluetooth is enabled. If it is not enabled, click Edit this device and set Bluetooth Enabled to "enabled."

A device profile can include the parameter Bluetooth_IsEnabled set to TRUE in the advanced settings.

- Ensure that the device is discoverable. If not, set Bluetooth Discoverable to "Enabled" so that the Talkman device will broadcast its Bluetooth information.
 When the display searches for discoverable Bluetooth devices, the Talkman device will appear in the list.
- 4. Select the Talkman device from the displayed device list. The display sets up the PAN (Personal Area Network).
- 5. Request a role reversal from the display to make the Talkman device the initiator in the pairing.

Note: The Talkman device must be the initiator in the display peer connection or else the communication between the Talkman and other Bluetooth devices will suffer.

Wi-Fi Pairing with a Display Device

The display device and Talkman device should be connected to same Wi-Fi network. The device can use HTTP protocol to communicate with the VoiceApplication running on the Talkman.

The display can communicate with the Talkman using the following information:

- point the browser to http://device-ip:port/application_url
- · device-ip can be the BT PAN or WIFI IP
- port is 80 by default; set as a voice application property
- · application_url specified by the voice application developer

Depending on the sophistication of the VoiceApplication running on the Talkman device, the mobile browser may need some or all of the following software:

- webkit support
- JavaScript
- CSS 2.1
- AJAX

Alternatively, you can write a native application which can run on the display device and communicate with the Talkman using TCP/IP. For the Pidion device, you can use the Android 2.1 SDK to develop a native application.

Any display device which has a webkit browser such as the iPod Touch should work with the Talkman. However, Honeywell recommends using devices which have been tested comprehensively by Honeywell.

Chapter 8

Adapter Cables and Listening Kits

Most inline adapter cables are made for a specific handheld device, so be sure to use the correct adapter for your device.

Additionally, inline adapter training cables must only be used with listening systems approved by Honeywell

When training new operators, you may want to listen in on their progress working with the voice system. Honeywell recommends specific listening kits for this purpose.

➢ Note: CV41 devices do not support the use of listening kits.

Wired Listening Kits

Caution: Honeywell strongly recommends the use of only approved listening systems sold by Honeywell. If you choose to use a listening system that is not approved by Honeywell, Honeywell requires that the listening system is independently powered through its own source (such as a battery) and has an input impedance greater than or equal to 2K ohms. Honeywell is not responsible for equipment damage that may be caused by listening systems not sold by Honeywell.



Figure 4: Radio Shack Wired Listening Kit



Figure 5: Marshall Demonstration Wired Listening Kit

• The wired listening kit connects to Talkman devices or handheld devices and allows a number of people, such as trainers or supervisors, to listen to the conversation between an operator and a Talkman device or handheld device.

- The Vocollect audio adapter cable with the red connector can be used with Talkman devices.
- A device-specific adapter training cable (also referred to as a "Y" or splitter cable) must be used with third-party handheld devices.
- For more information, consult the user manual provided with your listening kit.

Monitoring Audio on a Talkman Device

- 1. Connect the 3.5 mm jack on the inline adapter training cable to the input jack on your listening system.
- 2. Connect the other end of the training cable to the matching port on the Talkman device.
 - **Important:** For wired listening configurations, ensure that you are using the correct cable and port for your device.

Talkman Device	Cable	Port
Talkman A500 or Talkman T-Series	Audio splitter cable (TR-603-xxx)	Red port
Talkman A500 or T-Series with visual training device on the red port	Headset training cable (AD-300-1)	Yellow port
Talkman A720	Headset training cable Connect to a non-powered speaker (for example, a Vocollect headset)	Yellow port
Talkman A710 or A730	 Micro USB to 3.5 mm cable (TR-900-1) Connect to a powered speaker. Important: You must purchase the USB cable through Honeywell (part number TR-900-1) to ensure the listening kit works properly with the Talkman. 	Maintenance port DO NOT connect a non-powered speaker to the maintenance port.

3. Power on the wired listening kit and begin working.

Monitor Audio on a Handheld Device

- 1. Connect the 3.5 mm jack on the inline adapter training cable to the input jack on your listening system. Be sure to use the correct adapter cable for your device.
- 2. Connect the inline adapter training cable to your Vocollect SR-Series headset.
- 3. Connect the other end of the inline adapter training cable to your handheld device.
- 4. Power on the wired listening kit and begin working.

Samson Wireless Listening Systems (TR-605-x)

The Samson TR-605-x wireless listening kit replaces the TR-604-x kit which has been discontinued.



Figure 6: TR-605-x

- The wireless listening system allows trainers, administrators, or other operators to remotely listen to the conversation between an operator and a Talkman wearable computer or handheld device.
- The wireless listening system consists of a transmitting radio and a receiving radio which communicate with each other over a particular radio channel. This system can be used to monitor several operators by setting each transmitting radio to a different channel and then changing the channel on the receiving radio to that of the transmitter you wish to monitor.

Using the Samson Wireless Listening System

For best performance, attach listening devices to the red port of your Talkman device. If the red port is unavailable, or if you are using a handheld device, an inline adapter training cable, or "Y" cable, attached to the yellow port may be used. When using the "Y" cable, be sure to connect both a Vocollect headset and the listening system transmitter because the headset's performance is influenced by gain and headphones level adjustments.

You need the following items:

- Samson listening kits (TR-605-x) with both radios configured to the same channel setting. Each listening system contains the following items:
 - Receiver
 - Transmitter
 - Plastic screwdriver
 - · Headphones with 3.5 mm jack
 - Batteries (2 9V for TR-605-x)
 - Vocollect audio adapter cable
- If you are using a Talkman A500/T5 with a wired barcode reader, you will need the TR-603-102 "Y" adapter cable which connects a scanner and a listening kit transmitter via the red port on the A500/T5 device.
- If you are using a handheld device, you will need the AD-300-1 inline "Y" adapter training cable which provides a connection for a wired Vocollect headset and an audio output connection to go to the listening kit transmitter.
- · Talkman device or handheld device
- Vocollect SR-Series headset

Setting up the Transmitting Radio



Figure 7: Transmitting Radio TR-605-x

The transmitting radio is set up as a dedicated transmitter and is connected to the operator's Talkman device or handheld device.

- **1.** Insert a battery into the transmitting radio. (TR-605-x transmitters are labeled UHF BELTPACK TRANSMITTER on the bottom front)
- **2.** Connect the Vocollect audio adapter cable to the appropriate port on the operator's Talkman device or handheld device.
 - For a Talkman A710 or A730, connect the Micro USB cable to the maintenance port on the Talkman device.
 - For a Talkman A720, A500, or T5 Series, connect the audio adapter cable to the red port on the Talkman device.
 - For a handheld device, use the correct audio adapter training cable for your device.
- 3. Insert the 3.5mm male jack into the INPUT connector on the Samson transmitter.
- 4. Power on the transmitting radio.
- 5. Assure that output is enabled with the Mute/Audio switch set to the connect position.
 - For TR-605-x units, slide the Audio switch to ON.

Setting up the Receiving Radio

The receiving radio is set up as a dedicated receiver for use by a trainer.



Figure 8: Receiving Radio TR-605-x

- 1. Insert a battery into the grey receiving radio.
- 2. Connect a headset or powered speaker to the receiver's headphone jack.
- 3. Power on the receiving radio.
- 4. If needed adjust the output level.

Adjusting the Listening System for Optimum Performance

 Press the Plus button on your Talkman device or handheld device until the volume reaches its maximum setting.
 You will hear "This is loudest"

You will hear "This is loudest".

- 2. On the transmitting radio, locate the adjustment indicated as #1 on the transmitting unit. Align a small screwdriver tip with the slot in the control screw and use gentle pressure to fully rotate the control screw counterclockwise to set the gain to its minimum setting. Use extra care if you use a metal screwdriver as metal may damage the gain controls.
- **3.** On the receiving radio, locate the control marked #1. Gently rotate the control screw counterclockwise to set the headphone volume to its minimum setting.
- 4. On the gray receiving radio, turn the Phones Level setting back clockwise approximately 20 degrees.
- 5. Power on both listening system radios.
- 6. Put on the gray receiving radio's headphones or powered speaker.
- 7. Press the Plus or Minus buttons on the Talkman device or handheld device as you adjust the receiving radio's headset volume to the maximum desired level.
- 8. Make additional adjustments:
 - If the audio sounds distorted, readjust the Phones Level control on the gray receiving radio by rotating the control screw slightly counterclockwise while pressing the Plus button on your device.
 - If the volume is too low, even with the headphones set to their maximum level, adjust the gain on the black transmitting radio by rotating the Gain control screw slightly clockwise while pressing the Plus button on your device.

If you are using an inline adapter training cable connected to a handheld device, it is likely you will have to readjust the gain.

9. Once the wireless listening system settings have been adjusted to maximum volume without distortion, use the volume control on the headphones, powered speaker, or the Plus and Minus buttons to lower the device's volume.

Sony Wireless Listening Systems (UTX-B2 and URX-P2)



Figure 9: Sony® UTX-B2 and URX-P2

- The wireless listening system allows trainers, administrators, or other operators to remotely listen to the conversation between an operator and a Talkman wearable computer or handheld device.
- The wireless listening system consists of a transmitting radio and a receiving radio which communicate with each other over a particular radio channel. This system can be used to monitor several operators by setting each transmitting radio to a different channel and then changing the channel on the receiving radio to that of the transmitter you wish to monitor.

Important: Ensure that you do the following before using the listening system:

- Set the transmitter's Line/Mic switch to Line
- Plug the monitoring headphones into the Monitor port on the receiver
- Turn down the headset's volume before putting it on

Setting up the Receiving Radio

➢ Note: The receiver is labeled UHF Synthesized Diversity Tuner.

- 1. Insert batteries into the receiver.
- 2. Turn on the receiver.
- 3. Press and hold the **Set** button until the display flashes.
- 4. Press the Set button repeatedly to scroll through the settings. Stop when you reach Scan.
- Press the + button to scan for a clear channel. The channel bank will be displayed.
- **6.** After a clear channel is found, and no other buttons are pressed, the display will blink for another 15 seconds then stop. This indicates the channel selection was accepted.
- **7.** You will see two digits followed by the channel bank. Use the channel bank digits to set up the transmitter.

For example, if you see 04.3101, use 3101 to set up the transmitter.

8. Follow the steps to set up the transmitter.

Setting Up the Transmitting Radio

- 1. Insert batteries into the transmitter. For more information, see the manufacturer's documentation.
- 2. Set the input switch on the top of the transmitter to Line.
- 3. Press and hold the Set button and turn on the transmitter.
- 4. Repeatedly press the set button until you locate the channel bank number displayed on the receiver.
- 5. Power the transmitter off to commit the changes to memory.
- 6. Turn on the transmitter. It will be set to the frequency that you chose.
- 7. Verify that the tranmitter's setting matches the frequency or channel bank selected on the receiver.

Connecting the Sony Wireless Listening Kit to a Talkman Device

- 1. Connect the Talkman device to the transmitter using a Vocollect cable.
- 2. Connect a headset to the receiver's Monitor port.

Part Numbers: Listening Kits

Part Description	Vocollect Part Number
Samson Wireless Listening Kit, Transmitter and Receiver, CH. x, V2 (x=1-6)	TR-605-x
Sony Wireless Listening Kit, Transmitter (UTX-B2) and Receiver (URX-P2), 566-590 MHz	TR-606-1
Audio adapter cable, Wireless Listening Kit, 1/8" or 3.5mm male (for Sony Wireless Listening System)	TR-603-101
Audio adapter cable, Wireless Listening Kit, 1/8" or 3.5mm male	TR-603-102
Audio adapter cable, Wireless Listening Kit, 1/32" or 2.5mm male (Worldwide)	TR-604-101
Audio cable, A700, Micro USB to 3.5 mm male	TR-900-1
Adapter, Audio Splitter Cable for training to Vocollect Headsets	AD-300-1

Choosing Cables for Your Training Configurations

Device	Headset	Scanner	Cable Configurations
Talkman A700 Devices	 wired (connects to A720 YELLOW port), or wireless 	 wired, or wireless, or no scanner 	 TR-900-1 connects: wired listening kit or transmitter for wireless kit to A700 maintenance port

Device	Headset	Scanner	Cable Configurations
Talkman A500/T5	 wired (connects to A500/T5 YELLOW port), or wireless 	• wired	 TR-603-102 connects: scanner wired listening kit or transmitter for wireless kit to A500/T5 RED port
Talkman A500/T5	• wired (connects to A500/T5 YELLOW port)	wireless, orno scanner	 TR-603-101 or TR-604-101 connects: wired listening kit or transmitter for wireless kit to A500/T5 RED port
Talkman T2x	• wired (connects to T2x YELLOW port)	 wired (connects to T2x BLUE port), wireless (T2x Bluetooth Serial Adapter connects to BLUE port), or no scanner 	 TR-603-101 or TR-604-101 connects: wired listening kit or transmitter for wireless kit to T2x RED port
Third Party Device	 wired, or wireless 	 built-in, wireless, or no scanner 	 AD-300-1 connects: headset (SR20 or equivalent) wired listening kit or transmitter for wireless kit to device YELLOW port or headset port

Appendix A

Partial List of Talkman Configuration Parameters

This list contains some commonly used configuration parameters for serial communication with Talkman T2x, Talkman T5 Series, Talkman A500, and Talkman A700 devices.

Parameter	Definition	Values
BarcodeWordLen PrinterWordLen	Character length. A character oriented device takes a group of bits, one after the other, and interprets them according to a standard. The standard typically used is ASCII (American Standard Code for Information Interchange). Typically ASCII requires a minimum of 7 or 8 bits to represent characters.	5, 6, 7, or 8 (default)
BarcodeCleanPrefixedChars	Parses the barcode data for prefixed characters (<cr>, <lf>, NULL) and removes them if found.</lf></cr>	0 = prefixes are ignored and kept in the data (default) 1 = prefixes are identified and removed
BarcodeBufferDataTimeout	Sets the time in milliseconds the voice software will wait for data from the peripheral device before the entire buffer (not the queue) is cleared.	0 to 60000 Default = 750
BarcodeFlowControl	Controls whether hardware flow control is enabled or disabled on the bar code device port.	0 = flow control is disabled (default) 1 - flow control is enabled
BarcodeBaud PrinterBaud	Transmit speed. Devices can also transmit data at varying speeds or bits-per-second (bps). This is sometimes referred to as "baud." Allowing for a bit or two of overhead, the number of characters transmitted per second is roughly equivalent to the bits-per-second divided by 10. A transmission of 9,600 bps is approximately 960 characters per second.	50, 75, 110, 150, 200, 300, 600, 1200, 1800, 2400, 3600, 4800, 7200, 9600 (default), 19200, 31250, or 38400
BarcodeParity PrinterParity	To prevent errors in transmission, parity may be used in communication. When used, the parity adds one bit to the data being transmitted and requires that the bit be set based on the value of this parameter.	 1 = none; no parity bit is used (default) 2 = odd; the sum of all bits plus the parity bit will be odd 3 = even; the sum of all bits plus the parity bit will be even 4 = mark; the parity bit will always be 1 5 = space; the parity bit will always be zero
BarcodePort	Defines the port to which the bar code reader is connected.	bt_sca = use for T-series or handheld devices that support Bluetooth barcode readers red = use for T-series or handheld devices that support barcode readers blue = use for T-series or handheld devices that support barcode readers
Printer Port	The port on the device where the printer message is sent.	Red = use for Talkman or handheld devices that support serial printers (default) COMx = for 7527 devices with Bluetooth printers BSPx = use for 7527 devices with Bluetooth printers
BarcodeStopBits PrintStopBits	The number of bits that are always set, used to indicate end of a sequence.	1 (default) or 2
BarcodeTermChar1 BarcodeTermChar2 PrinterTermChar1 PrinterTermChar2	Used to indicate end of input or line. Typically this is the sequence of codes for carriage return (move to beginning of line) and line feed (new line). The hexadecimal values for these are 0x0D and 0x0A respectively.	Any ASCII code expressed as "0xYY" where YY is the hexadecimal value of the code Default = 0x0d

Find the complete list in *VoiceConsole Online Help* under the Advanced Settings topic.

Parameter	Definition	Values
BarcodeKeepPowerOn	To conserve power, the computer provides power to the barcode port only when explicitly needed. Some barcode devices may react slowly on power-up, or may require that power be kept on for the duration of the work assignment. This parameter overrides the default power saving behavior and supplies power to the port.	0 = power is turned off after each scan (default) 1 = power is not turned off after each scan
BarcodeMaxTimeScanAhead	Allows rapid bar code scanning. This parameter can be set to allow an operator to scan a bar code before the bar code thread receives the task dialog command. This parameter is set in milliseconds.	0 to 60,000 Default = 100
	Note: You can disable the buffer clear by setting this parameter to -1, which may help solve a problem with dropped scans for a site that performs very rapid scanning of hundreds of scans at a time.	
	Warning: You should use caution when deciding to disable this parameter, as it could potentially cause some invalid barcode scans to be taken as valid input.	
	When this value is set to the default of 100, the scanning function works as originally designed.	
	For example, if the parameter value is set to 2,000 (2 seconds), the operator can scan a bar code up to 2 seconds before the bar code thread receives the dialog command and can continue to scan rapidly. The task continues to send bar code commands to the bar code thread at a minimum rate of one every 2 seconds.	
BarcodePowerOnTaskNode	To conserve power, the computer provides power to the barcode port only when explicitly needed. Some barcode devices may react slowly	0 = enable power when the Talkman device is on
	on power-up, or may require that power be kept on for the duration of the work assignment. This parameter overrides the default power saving behavior and supplies power to the port.	1 = enable power only when scan requested (default)
BarcodePowerOffDelay	Determines the amount of time to leave power to a scanner on after a scan has been completed. Power is enabled to the port when the task enters a barcode node. If BarcodePowerOffDelay is infinite, power is enabled when the device is turned on. Power is disabled to the scanner port when the timeout value expires or device is put to sleep.	0 (default) to 36000 Any value above 36000 seconds does not turn power off until the device enters the sleep state.
	This parameter is set in seconds.	
BarcodeBt_Address PrinterBt_Address	When a Talkman device is configured as the initiator, this setting defines the Bluetooth address of the peripheral device.	Valid Bluetooth addresses with 12 hexadecimal characters (colons should not be included). For example, a Bluetooth address of 12:34:56:78:9A:BC must be specified as 123456789ABC
BarcodeBt_AuthenticationEnable PrinterBt_AuthenticationEnable	Determines whether the Bluetooth authentication protocol is enabled for a peripheral device.	0 = authentication protocol is disabled 1 = authentication protocol is enabled
BarcodeBt_DeviceName	Enables the user to specify a user-friendly name for the peripheral	
Timerbi_Deviceivanie	This name is only displayed in VoiceConsole. It is not used by the device firmware.	
BarcodeBt_EncryptionEnable PrinterBt_EncryptionEnable	Determines whether the Bluetooth encryption protocol is enabled.	True = Encryption protocol is enabled False = Encryption protocol is disabled (default)
BarcodeBt_IsInitiator	Evaluates the BarcodeBt_SPPGUID and BarcodeBt_RFCOMMChannel settings to determine how to establish connection.	True = the Talkman device will initiate a connection to the bar code reader. If a valid Globally Unique Identifier (GUID) is specified, it is used during discovery to establish the connection. Otherwise, the Radio Frequency Communication (RFCOMM) channel setting is evaluated. If it is valid, and no GUID has been specified, the device will attempt to establish a connection on that channel. A value must be entered for the parameter BarcodeBt_Address. False = the device will accept a connection from the bar code reader. A discovery record with a given GUID is published. The

Parameter	Definition	Values
		 discovery protocol allows clients to determine the RFCOMM channel associated with the GUID. Note: When neither parameter is specified, the default GUID (specified within the Bluetoth standarde) is
		used. The device will use the standard Serial Port Profile (SPP) GUID defined in the Bluetooth specification. However, the device will publish a non-standard GUID if the parameter BarcodeBt_SPPGUID is defined. By default, the device's software allows the operating system to assign an available RFCOMM channel. However, the BarcodeBt_RFCOMMChannel parameter can be used to assign the device to a specific channel.
PrinterBt_IsInitiator	Evaluates the PrinterBt_SPPGUID and PrinterBt_RFCOMMChannel settings to determine how to establish connection.	True = the Talkman device will initiate a connection to the printer. If a valid Globally Unique Identifier (GUID) is specified, it is used during discovery to establish the connection. Otherwise, the Radio Frequency Communication (RFCOMM) channel setting is evaluated. If it is valid, and no GUID has been specified, the device will attempt to establish a connection on that channel. A value must be entered for the parameter PrinterBt_Address.
		 False = the device will accept a connection from the printer. A discovery record with a given GUID is published. The discovery protocol allows clients to determine the RFCOMM channel associated with the GUID. Note: When neither parameter is specified, the default GUID (specified within the Bluetooth standards) is used.
		The device will use the standard Serial Port Profile (SPP) GUID defined in the Bluetooth specification. However, the device will publish a non-standard GUID if the parameter PrinterBt_SPPGUID is defined. By default, the device's software allows the operating system to assign an available RFCOMM channel. However, the PrinterBt_RFCOMMChannel parameter can be used to assign the device to a specific channel.
BarcodeBt_RFCOMMChannel PrinterBt_RFCOMMChannel	Defines the Radio Frequency Communication (RFCOMM) channel to be used when establishing a Bluetooth connection.	See BarcodeBt_IsInitiator/PrinterBt_IsInitiator.
BarcodeBt_SecurityPIN PrinterBt_SecurityPIN	A string used by the security key within the Bluetooth stack. To use this setting you must first enable BarcodeBt_AuthenticationEnable/PrinterBt_AuthenticationEnable.	A string, with a maximum of 16 bytes
BarcodeBt_SPPGUID	Defines the Global Unique Identification (GUID) to be used when establishing a Bluetooth connection.	See BarcodeBt_IsInitiator.
BarcodeVerboseDebug	Prints additional lines of debug detailing the data received from the peripheral device and what data is cleared if the BarcodeBufferDataTimeout is exceeded.	0 = additional lines of debug are not printed (default) 1 = additional lines of debug are printed
DebugSerOutEnabled	This parameter should be set to 0 when a peripheral (training device or barcode reader) is plugged into the red port of a device to ensure that debug printouts are not sent to the device. If the parameter is set to 1, the peripheral must be unplugged and then plugged in again when the task begins to run so the peripheral will reset after printouts during boot.	0 = disables debug printouts through the serial port 1 = enables debug printouts through the serial port (default)

Parameter	Definition	Values
PrintCharSet	Defines the encoding of the data sent from the device to a printer when portable printer is set as the destination for an ODR. This parameter is useful if you want to send UTF data to the printer (for example, you get UTF-8 data from the WMS and want to print that data).	1252: Use with ASCII tasks (English and Western European languages) 65001: Use with UTF-8 tasks (Japanese, Chinese, Greek, Polish) (default)
PrintNodeTiming	Determines if system tick value and node number will be printed in the debug window upon entry into each task node.	0 = system tick value and node number are not printed to the debug window (default) 1 = system tick value and node number are printed to the debug window
WapScanRemoveCrLf	By default, Metrologic scanners add a carriage return and line feed (<cr><lf>) to the end of all scanned barcodes. This can cause some barcodes to be read incorrectly. Adding this parameter to the device's configuration file prohibits the Metrologic scanner from adding a carriage return and line feed to the end of all scanned barcodes. After adding the parameter, tap Tools Exit, and then restart Vocollect Voice to activate the new setting.</lf></cr>	0 = carriage returns and line feeds remain in scans (default) 1 = <cr><lf> is removed from scans</lf></cr>

Appendix B

Troubleshooting Peripheral Problems

Troubleshooting Display Devices

If the display does not pair or appear to work:

- 1. Be sure that the display is on, Talkman is on, and the display battery and Talkman battery are both charged.
- 2. Verify that both display and Talkman are connected to the same wireless network. Verify that Talkman is running a VoiceApplication which supports displays.
- 3. Verify that display is pointing to the right web address and Talkman device.

Troubleshooting Bluetooth Scanners

With any relatively open communication system like Bluetooth, parameters must be set correctly for successful data transmission. The following sections include common settings and problem areas for Bluetooth scanners.

The Scanner will not Scan

These steps apply to bar code scanners external to the Talkman device and not the integrated scanner in the Talkman A730.

- **1.** Make sure the scanner is on, plugged into the Talkman device properly, and that the battery is charged.
- **2.** Make sure the Talkman device is on, the battery is charged, and that it is running voice process software (task or voice application) that is set up for scanning.
- **3.** Using VoiceConsole, verify that the task is set up to use the port "BT_SCAN" for its scanning connection in the advanced settings of the task package.
- 4. Check the Talkman device in VoiceConsole. If the "Peripherals Paired With" status indicates "searching," verify that the correct Bluetooth address was entered. Correct the entry if necessary by following the initial procedure to set up the connection.
- **5.** If the scanner beeps several times after a scan, it is not connected. Verify the connection with the Talkman.
- **6.** If the scanner appears to scan and beeps once (indicating successful scan) but Talkman does not appear to accept input, assure that the task termination characters are the default (CR/LF). If not, the scanner or task may need to be reprogrammed to match.
- 7. If a scan was attempted while the Talkman was asleep, the Talkman may ignore all subsequent scans. Toggling the Talkman on/off will typically correct this condition.
- 8. Try connecting the scanner to a different device.
- 9. If the scanner is damaged, send it back to Honeywell for repair.

The Talkman Device Does Not Receive Scanned Data

Scenario:

- The Bluetooth scanner appears to successfully pair with the Talkman device.
- The scanner is scanning bar codes.
- The Talkman device does not acknowledge the data transmission.

Possible Cause:

The scanner may not be set up to send the appropriate **prefix or suffix characters** expected by the voice process software (task or voice application) running on the Talkman device.

Some process software requires a prefix character to identify the barcode Symbology in use so that it can be parsed correctly. The VoiceClient voice software will require that the bar code be terminated with a carriage-return/line-feed combination. Data will not be successfully transmitted if these settings do not match.

Resolution:

Review the appendices of this document for information specific to your scanner on setting prefix and suffix characters, or symbologies and carriage returns. Refer to documentation from the manufacturer for additional settings.

The Pairing with the Talkman Breaks Often

Scenario:

- The pairing link breaks between the scanner and the Talkman device on a regular basis.
- It takes too much time during shifts to re-establish the link.
- Sometimes this scenario includes the scanner powering down and having to be powered up again.

Possible Causes:

Some scanners power down to conserve battery power which includes powering down their Bluetooth radios. When the radio turns off, the pairing with the Talkman device breaks. Some scanners may also disassociate any pairing by default after a power-down meaning that the scanner needs to be manually re-paired on power up.

Similarly, some scanners have parameters associated with the length of time that they will maintain a Bluetooth radio connection.

Resolutions:

Review and change the scanner's **power management** options from the default behavior to ensure that there is no delay in scanning caused by any disconnect/reconnect. Usually these options are able to be changed by an initial configuration of the scanner.

Alternatively, change the scanner's **connection maintenance** parameters that cause the scanner to disconnect after a fixed period to ensure that the scanner stays permanently connected.

Refer to documentation from the manufacturer for additional settings.

We Have Incorrect Pairings and RF Interference

Scenario:

- An operator cannot pair her scanner with a Talkman device that was previously paired to a different scanner.
- Operators experience random cross pairings (scanners pair with unintended Talkman devices).
- RF transmissions in the workplace fail as a result of radio interference.

Possible Causes:

If a scanner remains paired to a Talkman device when work is completed that persistent connection could interfere with another user trying to use that Talkman with a different scanner.

The scanner will also try to re-pair by paging or sending repeated bursts of Bluetooth radio traffic through the air. This spurious Bluetooth RF can interfere with other transmissions.

Resolutions:

Honeywell strongly recommends that operators unpair scanners and Talkman devices when they are finished using them.

- 1. Break the pairing between scanner and Talkman.
- 2. Pair the scanner with its base station, or set the scanner to acceptor mode.

These actions ensure that no random pairing will interfere with new pairings and that unpaired scanners will not "page" and interfere with other RF transmissions.

Troubleshooting Wired Scanners

If the scanner does not pair or appear to work:

- 1. Be sure that the scanner is on, Talkman is on and Talkman battery is charged and that the Talkman task in use is one that is set up for scanning.
- **2.** Using VoiceConsole verify that under "Advance Settings" of task the barcodeport is set to "red" for its scanning connection.
- **3.** Verify that for the Talkman T5 and T5m the baud rate set is 9600 and for the Talkman A500/A720 baud rate set is 19200.

Troubleshooting Bluetooth Printers

If the printer does not pair or appear to work:

- 1. Be sure that the printer is on, the Talkman device is on, the printer battery and Talkman battery are both charged, and the Talkman voice process software (task or voice application) in use is set up for printing.
- **2.** Using VoiceConsole, verify that the task is set up to use the printerport "BT_PRINT" for its printing connection in the advanced settings of the task package.
- **3.** Check the Talkman device in VoiceConsole. If the "Peripherals Paired With" status indicates "searching," verify that the correct Bluetooth address was entered. Correct the entry if necessary by following the initial procedure to set up the connection.
- 4. If the printer still does not print, the pairing with the Talkman may not have been successful. Ensure that the correct security key was entered during Bluetooth pairing of printer with the Talkman.

Troubleshooting Wi-Fi Printers

If the printer does not pair or appear to work:

- 1. Be sure that the printer is on, the Talkman device is on, the printer battery and Talkman battery are both charged, and the Talkman voice process software (task or voice application) in use is set up for printing.
- 2. Using VoiceConsole, verify that the task is set up to use the printerport "network_print" for its printing connection in the advanced settings of the task package.
- **3.** Try re-pairing the printer by performing the following steps.
 - a) Under "Device Action" select "Pair this device with a peripheral."
 - b) Select pairing type as "Network Printer" and then enter the "Pairing Name."
 - c) In the Host field, enter the IP Address assigned to the printer and the communication port to be used.
 - d) Click "Pair with peripheral" button.
 - e) Verify that in VoiceConsole under "Peripherals Paired With" status indicates "Assigned."
- 4. Check the Talkman device in VoiceConsole. If the "Peripherals Paired With" status indicates "searching," verify that the correct IP address and port were entered. Correct the entries if necessary by following the initial procedure to set up the connection.
- **5.** If the printer still does not print, the pairing with the Talkman may not have been successful. Try to navigate the menu option using "+" and "-" buttons of Talkman. If the Talkman is "paired" with printer, then the Talkman menu will have two additional options: "Test Network Printer" and "Network Printer Status."

About Sending Equipment Back for Repairs

🕕 Important:

- Only equipment purchased directly from Honeywell can be returned to Honeywell for repairs.
- If you purchased Honeywell equipment for example, a headset in the SR-Series from a Honeywell reseller, contact the reseller.
- If you are using Vocollect VoiceClient on a handheld device, contact the reseller or device manufacturer if you have questions or issues concerning the device.



Attention: Remove ear pads, mounting discs, cables, and cord clips before shipping. These consumable items slow down the repair process, and units will be shipped back without these consumables installed.

Honeywell issues RMAs for all returns regardless of the reason for the return. This guarantees proper tracking of equipment, ensures proper handling, and facilitates a fast return.

The Customer Service department generally issues RMAs to customers who are returning products for repair. However, Honeywell may issue RMAs for other reasons, such as the following:

- The product belongs to Honeywell. Honeywell may have loaned the product to a customer or provided it as a sample.
- Honeywell requested that the customer return the item, perhaps for testing.
- A Honeywell employee at the customer site has determined that the product should go back to Honeywell for some other reason.
- Exchange for example, an incorrect item was shipped or the wrong size of belt was ordered.

Some Honeywell customers have service contracts with repair depots to perform repairs on Honeywell products. Customers with these service contracts should contact their repair depot to return equipment. Follow the RMA issuance procedures to eliminate unnecessary repair costs and to ensure timely product receipt. If you have a question about the RMA process, please contact Customer Service.

Packaging Items for Return to Honeywell

- Note: Properly packaged RMA items facilitate faster repair and return of Honeywell products. Honeywell appreciates your assistance and adherence to these policies.
- 1. Pack items so that no items can come into direct contact with one another or with the sides, bottom, or top of the shipping container.
- 2. Line the shipping container with at least one layer of padding, preferably anti-static bubble pack.
- 3. Pack each item individually in a bag or wrapping, preferably anti-static bubble bags or wrapping.
 - If individual wrapping is not possible, place some packing material (such as anti-static bubble pack) on the bottom of the shipping container, then pack items between layers of the material.
 - Avoid using foam peanuts as the only packing material because they do not prevent items from coming into contact with each other or the walls of the shipping container. Peanuts can, however, fill empty space in the shipping container and on top of items that have been individually packed in anti-static bubble bags.

Sending Equipment Back for Repairs: Return Material Authorization (RMA) Procedures

- 1. Send an email to ACSHSMVocollectRMA@honeywell.com with the following information:
 - Name of customer contact person
 - Company name
 - Company address
 - Phone number
 - Fax number
- 2. Also provide the following information about the items being returned:
 - Quantity
 - Description of product
 - Serial number
 - The version number of the software currently installed at your site
 - Description of problem or reason for return
 - · Whether the product is covered by warranty, Extended Service Plan (ESP), or Depot Express
 - A purchase order number if items are not covered by ESP or Depot Express
- 3. Include the RMA number on the shipping label, if shipping items to Honeywell.
- 4. Package the equipment according to the packaging instructions.
- Address the shipping label to: Honeywell, 4250 Old William Penn Highway Monroeville, PA 15146-1622 RMA

Appendix C

Peripherals by Model: Detailed Information

- Note: All non-Honeywell product names mentioned herein are trademarks or registered trademarks of their respective owners.
- Note: Non-Honeywell device specifications mentioned in this document are subject to change without notice.

Supported Bar Code Readers

The Vocollect Voice system supports the use of several styles of bar code readers, including guns, scanners, and wands. Honeywell extends support for the products listed below, but compatibility with Vocollect Voice is not limited to these peripherals. Verify support for your device in the release notes for your version of Vocollect Voice software or contact your Honeywell sales representative.

- Intermec SF51 Cordless Scanner
- Intermec SR30 Handheld Scanner
- Intermec SR61T Tethered Industrial Handheld Scanner
- · Intermec SR61B Rugged Wireless Handheld Scanner
- Honeywell Granit 1911i Bluetooth Scanner
- Honeywell LXE 8651 and 8652 Wearable Ring Scanner
- · Honeywell LXE 8810 and 8820 Scanner
- Honeywell IS4225 Laser Scanner
- Honeywell MS9535 VoyagerBT Scanner
- Motorola LS3408-ER
- Motorola LS3408-FZ
- Motorola LS3578-ER
- Motorola LS3578-FZ
- Motorola LS4208
- Motorola RS507 Hands-Free Cordless Imager
- Socket Series 7P Imager
- Socket Series 7Mv3 Scanner
- Socket Series 9Pv3 Scanner

The bar code reader procedures described in this documentation are only for instances where the Vocollect Voice software manipulates a supported scanner. See the documentation provided by the bar code manufacturer for other bar code procedures.

🕞 Note:

- In order to use a supported bluetooth scanner with a Motorola device, you must enable the **EnableMotoBTScanner** parameter by setting it to 1 in the config.vrg file under [HKEY_LOCAL_MACHINE\Vocollect\CONFIG_PARAMS\DIAG_FILE].
- Devices must be configured to work with bar code readers. If a device has not been configured, you must set the necessary parameters in the device's voice process software (VCF file) before using a bar code reader with the device.
- · Talkman devices generally support only decoded bar code wands and guns.
- The Intermec SF51 cordless scanner is compatible with some workarounds.

- Talkman devices will support the Symbol RS 1 Ring Scanner (a non-decoded device) but only when used with an external decode block.
- Vocollect Voice supports bar code readers that are built into a supported handheld device. If you are prompted by the voice engine to scan a bar code, use the built-in bar code reader as the device manufacturer recommends. See the documentation provided by the device manufacturer.
- Connect the bar code reader to the device before scanning a bar code. Bar code readers have a connector with a blue bend relief. The connector end of the bar code reader is attached to the blue port on the device.
- You can scan bar codes only when you are prompted for bar code information.

Supported Printers

Vocollect Voice software supports the printers listed in the release notes for your version of Vocollect Voice software. Honeywell extends support for the printers listed below, but compatibility with Vocollect Voice software may not be limited to these peripherals. If you are prompted by the voice engine to print, use the supported printer as the device manufacturer recommends. See the documentation provided by the device manufacturer.

- Intermec PB50 Rugged Mobile Label Printer
- Intermec PM4i Mid-Range Printer
- SATO MB200i Mobile Bluetooth Printer
- Toshiba Tec Printer B-EP2D-GH30-QM-R
- Toshiba Tec Printer B-SP2D-GH30-R
- Zebra QL Series

The printer procedures described in this documentation are only for instances where the Vocollect Voice software manipulates a supported printer. See the documentation provided by the printer manufacturer for other printer procedures.

Note: Devices must be configured to work with printers. If a device has not been configured, you must set the necessary parameters in the device's voice process software (VCF file) before using a printer with the device. Connect or pair the printer to the device before printing.

Supported Display Devices

Vocollect Voice software supports the display devices listed in the release notes for your version of Vocollect Voice software. Vocollect extends support for the displays listed below, but compatibility with Vocollect Voice software may not be limited to these peripherals.

• Apple iPod Touch

See the documentation provided by the device manufacturer for procedures.

Apple iPod Touch Display



Figure 10: Apple iPod®

The iPod display can be used with Talkman A500 devices.

Honeywell can provide initial set-up support for this display and answer general questions about working with the Talkman. Detailed questions about iPod operation, configuration and options can be answered by the vendor or agent from whom the iPod was purchased.

During use, it is possible for the display to disconnect from the Talkman device if the communication link is disrupted. Some examples of this include:

- · The operator takes the display out of radio range of the Wi-Fi Network.
- The Talkman is powered off.
- · Excess radio frequency activity momentarily disrupts the communication link.

The Safari browser must be refreshed every time the Talkman or iPod goes out of Wi-Fi range. This action ensures that the iPod is displaying the correct state of the VoiceApplication.

Since no actual pairing is involved between device and display, once can use multiple displays with the same device.

Apple and iPod are registered trademarks of Apple Inc.

Setting up the Apple iPod Touch

- 1. Turn on the iPod Touch.
- 2. Open the Safari browser.
- 3. Enter the following URL. http://<ipaddress of A500>/VoiceAppName/
- 4. Tap on "GO."
- 5. The iPod should now display the VoiceApplication in the browser window.

Apple iPod Touch Test Summary

Product Tested: Apple iPod Touch
Apple Product Description: iPod Touch 8 GB
Model: MC540LL
Peripheral firmware version: Apple OS 4.1(8B118)

Peripheral Type: Touch screen display

Test Cycle: 1-Apr-2011

Honeywell software products used: VoiceCatalyst 1.0.1, Sandwich 1.0 VoiceApplication

Honeywell hardware products used: Talkman A500

Test Status: Passes all

Tests Performed - Peripheral Display Scenarios:

- Test for iPod Display
- · Power off iPod when VoiceApplication running on device
- · Connect iPod to power when running VoiceApplication is displayed on iPod browser
- Pair Bluetooth scanner, printer, and SRX via VoiceConsole when VoiceApplication is displayed on iPod browser
- Pair serial scanner, printer, and SRX via VoiceConsole when VoiceApplication is displayed on iPod browser
- Pair Bluetooth scanner, serial printer, and SRX via VoiceConsole when VoiceApplication is displayed on iPod browser
- Pair serial scanner, Bluetooth printer, and SRX via VoiceConsole when VoiceApplication is displayed on iPod browser
- Pair BT scanner, printer, and SRX and then cradle device while VoiceApplication display is there on <code>iPod</code>
- · Attempt to use SRX with "SrxSupervisorAudioEnable" parameter
- · Test for iPod VoiceApp display when Pidion is connected with device
- · Test for iPod VoiceApplication display when input for VoiceApplication provided by Pidion
- Test for iPod display when pairing is done with Pidion while VoiceApplication running on device
- · Device is cradled and VoiceApplication display on iPod

Tests Performed - Stress Scenarios:

- · Cradle device when VoiceApplication is running and getting displayed on iPod
- Change of state test on iPod
- Walk out of range of Wi-Fi network with iPod, while device is in network
- Walk out of range with device

Tests Performed - Failure Scenarios:

- · Test for iPod Display when VoiceApplication is not running on device
- · Power off device when displaying VoiceApplication on iPod
- · Battery Pull of device while VoiceApplication display on iPod
- Out of range battery pull of device
- Out of range test when both iPod and device are taken out of Wi-Fi range
- Test for iPod input to VoiceApplication when device is cradled
- · Pair Bluetooth scanner, printer, SRX and Pidion via VoiceConsole and pull battery of device
- Pair Bluetooth scanner, printer, SRX and Pidion and power off the device while VoiceApplication display on iPod

Brainboxes RS232 Bluetooth Dongle for Talkman T2x

Configuring Brainboxes RS232

1. Plug the Bluetooth device into the serial port on the machine.
- 2. Install the RS232 BT Adaptor Configuration Utility from the CD accompanying the dongle.
- 3. Using the female to female adaptor, attach the power cable to the device.
- 4. Use the default 115200 baud rate until changes are made. Choose the appropriate com port.
- 5. The default Settings of the RS232 are shown in the screen shot below.

Device info	Current Settings		8
Name: Brainboxes RS232 Adap	Ø Advanced Settin	gs	8
Address: 000A-4F-011FF5	B Default Settinus		۵
Port Settings Image: Settings Current Settings Image: Settings Support/Links Image: Settings	Parity Stop Bits Local Device Address Local Device Name Discoverability Security Mode Encryption Switch Role PIN Code Client/Server Class of Device Partnet Device Handshaking Connect Scheme Low Power Mode	None 1 000A-4F-011FF5 Brainboxes RS232 Adapter 0n 3 (High) Disabled 0II 1234 Server (Accepts incoming connections) Peripheral None 0TR/DSR Proximity Ott Disabled	9

Figure 11: Intermec SR61B and SR61T Scanners

- 6. In the Current Settings section, configure the baud rate from 115200 to 9600.
- 7. In Advanced Settings, set the security mode to 1 from 3 (Security Mode 1 does not require any PIN to be entered when pairing the Bluetooth scanner).
- 8. The dongle is now ready to work with T2x.

Brainboxes RS232 Bluetooth Dongle Test Summary

Product Tested: Brainboxes BL-819B
Part Number: BC-611-105
Peripheral firmware version: 4.3.4
Peripheral Type: Adapter
Test Cycle: Dec-2012
Honeywell software products used: VoiceClient 3.8.1, VoiceConsole 4.1
Honeywell hardware products used: Talkman T2x

Scanner used: Intermec SR61 & LXE 8652 BT Scanner

Test Status: Passes all tests

Tests Performed - Sleep/On State Change:

The following test validates that association between scanner and Bluetooth dongle is not affected if we place the device into and remove it from the SLEEP and ON states while scanning without affecting scanning functionality.

- · Scanner association with Bluetooth Dongle is maintained through device shutdown and wakeup
- Scanner association with Bluetooth Dongle is maintained through device timeout shutdown and wakeup

Result: Printer works fine when the state is changed Sleep/On.

Tests Performed - Operator State Change:

The following test validates the ability to change an operator while scanning and printing without affecting scanning and printing functionality.

Begin scanning and printing operations. While scanning and printing, change operator via button menu selection (i.e. Operator and Plus/Minus buttons).

- Following operator load, continue to execute several iterations of the Scan and Print task
- Reiterate step 2 at least two times

Result: Printer works fine during Change Operator state change.

Tests Performed - Out of Range Device Tests:

The purpose of this test is to verify that scanner re-pairs itself successfully once we come back into Bluetooth range.

• Validate the ability that a pre-paired Bluetooth scanner once we move out of Bluetooth range gets re-paired once it's back in range

Result: Scanner works fine.

Tests Performed - Device Re-Pairing after Power Off and State Change:

This test validates the ability of the terminal (T2x and Brainboxes RS232 Bluetooth Dongle) and Bluetooth scanner repairs after they are powered on.

- 1. Pair a Bluetooth scanner to a device (Talkman T2x and Brainboxes RS232 Bluetooth Dongle)
- 2. Execute the Scan and Print task, two iterations
- 3. Power all devices off
- 4. Power all devices back on
- 5. Execute the Scan and Print task, two iterations
- 6. Repeat steps 3-5 except pull the battery to power off the device
- 7. Repeat steps 3-5 except only power off the Bluetooth peripherals; DO NOT power off the device.

Scenarios covered:

- · Verify that a scanner association can be created with the device in a variety of states
- · Verify that a scanner association is maintained through device shutdown
- This test validates that a printer association is maintained through a task load
- · This test validates that scanner association is NOT maintained through a device profile load

Result: The scanner re-pairs and works fine after powering on again.

Tests Performed - Device in the Charger:

The following test validates that the device can be put in the charger and after it is removed Bluetooth peripherals will reconnect.

- Pair a Bluetooth scanner with a terminal (T2x and Brainboxes RS232 Bluetooth Dongle)
- · Execute Scan and Print Task, two iterations
- Remove the SR20 headset and the Brainboxes RS232 Bluetooth Dongle
- Place the device in the charger
- Wait till the device LED is blinking fast green and then remove the device from the charger
- Connect the SR20 headset and the Brainboxes RS232 Bluetooth Dongle
- Start the scan and print task
- The Bluetooth scanner should reconnect and you should be able to hear the device through the SR20 headset
- · Execute the Scan and Print Task, two iterations

Result: The printer works fine after the device is taken out of charger.

Tests Performed - Stress Test:

The following test validates that scanner pairs with Brainboxes RS232 Bluetooth Dongle with Advance Settings parameter "barcodeport=blue."

- · Attempt to pair peripherals without/with required parameters
- Change in Advance Settings

Result: The scanner pairs and works fine after the Bluetooth dongle gets power up.

Tests Performed - Swap Paired Scanner:

The following test validates the ability to change from one paired Bluetooth scanner to another and perform normal operations then re-pair the original Bluetooth scanner.

- 1. Pair a Bluetooth Scanner (Intermec SR61 Bluetooth Scanner) with a terminal (T2x and Brainboxes RS232 Bluetooth Dongle)
- 2. Execute Scan and Print task, two iterations
- 3. Scan the Disconnect barcode to disconnect the SR61 Bluetooth Scanner
- 4. Scan the pairing barcode generated using Elfring Fonts utility for LXE8652 Ring Scanner
- 5. LXE 8652 gets paired successfully
- 6. Scan the Disconnect barcode to disconnect the LXE scanner
- 7. Again pair the SR61 Bluetooth Scanner by scanning the same association barcode generated through EasySet utility
- 8. Scanner pairs back with the Terminal/Device

Result: The scanner works as desired.

Tests Performed - Failure Test - Pull Talkman Battery During Task Execution:

The purpose of this test is to verify device is able to re-connect properly with all peripherals and "Scan and Print" task is resumed successfully.

- 1. Pair a Bluetooth Scanner with a device (T2x and Brainboxes RS232 Bluetooth Dongle)
- 2. Start executing the Scan and Print task
- 3. Pull the battery out of the device while executing Scan and Print task
- 4. Place the battery back into the device

Result: The scanner re-pairs only after the Scan and Print task is started it does not re-pair initially when the Terminal/Device gets powered up.

Tests Performed - Failure Test - Pull Talkman Battery in the Middle of Pairing:

Battery pull during pairing of scanner- The purpose of this test is to verify device is able to pair properly with peripherals after putting back battery.

1. Create a pairing barcode of the Bluetooth address of the Brainboxes RS232 Bluetooth dongle using EasySet tool for Intermec scanners and for other scanners use "Elf ring's font"

- 2. Scan the above generated barcode and immediately after that pull the battery out of the device
- 3. Put the back again the device and start the "Scan and Print" task
- 4. Scanner should pair with the Bluetooth dongle

Result: The scanner pairs successfully after step 3.

General Issues

- 1. There have been cases where the scanner takes longer time than usual/expected while pairing. (Few Seconds to a few minutes).
- 2. It has also been observed during the testing course that at times re-paring does not happen. Solution to this problem can be:
 - **a.** Put the device to Sleep mode and then Wake up, this can be done by quickly pressing the Play/Pause button twice.
 - **b.** Restart the device by pressing and holding the Play/Pause button till you hear "Powering off" and then press the "Play/Pause" button once.

Pairing Brainboxes RS232 Dongle with Talkman T2x

- 1. Power on the Talkman T2x device.
- **2.** Plug in the Brainboxes RS232 Bluetooth dongle straight into the "Serial to 9 Pin Cable" which is connected to the blue port of the Talkman T2x.
- 3. Load the Scan and Print task.
- 4. Make sure that the Scan and Print task has the configuration parameter "*barcodeport* = *blue*" set in the Advanced Settings. Otherwise the Bluetooth dongle will not power up.
 - Note: Insert BarcodePowerOnTaskNode=0 configuration parameter under the [HKEY_LOCAL_MACHINE \ Vocollect \ CONFIG_PARAMS \ DIAG_FILE] section of the configuration file while creating the device profile. This setting addresses a known issue where every time a barcode is scanned, the task shuts power off to the port. The result is that the user must wait until the scanner re-pairs again to read the next barcode.

Vocollect T2 Series Bluetooth Adapters Specifications

The T2x Bluetooth Serial Adapater (part number BC-611-105) replaces the T2 Series Bluetooth Adapter (part number BC-611-104). The T2 Series adapter is discontinued.



Figure 12: T2x Bluetooth Serial Adapter

T2x Bluetooth Serial Adapter		
Antenna	Integrated	
Baud Rate	921,600 KB/s	
Operating Temperature	0° to 70° C (32° to 158° F)	
Operating Humidity	20% to 75% non-condensing	
Storage Humidity	8% to 95% non-condensing	
Range	32.8 feet (10m)	
Serial COM Interface Standard	RS-232, 9 pin male	
Compliance	Bluetooth 1.1 Qualified	
	AEO C-TPAT WEEE RoHS	
	EMC: CE	
	FCC Compliant	
	ТАА	
Bluetooth Profile	Serial Port	

Legacy T2 Series Bluetooth Adapter		
Antenna	Integrated Class 2 Bluetooth Module	
Baud Rate	9600 bps	
Operating Temperature	-20° to 85° C (-4° to 185° F)	
Humidity	5% to 95% non-condensing	
Storage Temperature	-40° to 95° C (-40° to 203° F)	
Range	Approximately 10m (32.8 feet)	
Serial COM Interface Standard	RS-232	

Legacy T2 Series Bluetooth Adapter	
Compliance	Bluetooth 1.1
	FCC: Part 15, Class B
	Industry Canada
	CD: ETC 300 328, ETC 300 826
	C-Tick S.182
Bluetooth Profile	Serial Port

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See Advanced Settings in VoiceConsole Help for task parameters for the Bluetooth Serial Adapter.

Intermec SF51 Cordless Scanner



Figure 13: Intermec[®] SF51 Cordless Scanner

- The Intermec SF-51 scanner can be used with all Talkman T5 Series and A500 devices. It provides a flashlight form factor attached to a magnetic holder.
- Always take hold of the bar code scanner by its handle.
- When not in use, the bar code scanner should be secured.
- Honeywell can provide initial set-up support for this scanner and answer general questions about scanning and working with a Talkman device. For detailed questions and information about this product, visit Intermec's website or contact the vendor.

Pairing the Intermec SF51 Scanner: Device Is the Initiator

During use, it is possible for the scanner to disconnect from the device if the communication link is disrupted. When the scanner is setup so that the device initiates the connection, the device typically recovers the connection automatically. When the scanner initiates the connection, it typically requires the press of a button to activate and recover the connection.

This method of pairing is useful if a single device will always be associated with one scanner.

You must have access to VoiceConsole to set up the pairing. For production use, Honeywell recommends that you create a specific device profile in VoiceConsole to store many of the following settings.

- 1. On the device, turn Bluetooth on.
- 2. On the Servers tab of the Bluetooth window, activate the Scanner checkbox.
- 3. Tap OK.
- 4. Using the EasySet Tool from Intermec generate a restore factory settings barcode.
- 5. Scan the barcode onscreen or print the barcode and scan it with the Intermec SF51 scanner.

- 6. Using the EasySet Tool from Intermec generate a security disabled barcode.
- 7. Scan the barcode onscreen or print the barcode and scan it with the Intermec SF51 scanner.
- 8. On the device, on the **Device** tab of the **Bluetooth** window, find the Intermec SF51 scanner in the list of discovered devices.
- Tap and hold on the line for the Intermec SF51 scanner, and select Pair. The Services window opens.

Note: If an authentication window displays and the peripheral does not require a passcode, tap Next.

- 10. Activate the Serial Port check box. The Serial Profile window opens.
- 11. From the Mode drop-down list, select Scanner.
- 12. From the Encryption drop-down list, select Disable.
- 13. From the Port drop-down list, select COM1.
- 14. Tap Next.
 - The Services window opens displaying the peripheral.
- 15. Tap Done.
- 16. Ensure the scanner is listed on the Paired tab of the Bluetooth window.
- 17. If it is, tap OK.

The scanner is paired when its blue LED stops flashing.

- 18. View the properties of the device, and ensure that Bluetooth is enabled. If it is not enabled, click Edit this device and set Bluetooth Enabled to "enabled."
- 19. Select the Pair this device with a peripheral option.
- 20. For Pairing Type select "Bluetooth Scanner."
- 21. For Connection Mode select "Device initaties connection with peripheral."
- 22. In the Bluetooth Address enter the Bluetooth MAC address of the scanner. This 12-character ID is labeled "MAC ID" and is found on the side of the battery unit of the scanner.
- 23. For Security select "Enabled."
- 24. For Security Key enter four zeros "0000."
- 25. Using VoiceConsole, locate the specific device to be paired with the scanner.
- 26. Click Pair with peripheral to initiate pairing.

Pairing the Intermec SF51 Scanner: Scanner Is the Initiator

During use, it is possible for the scanner to disconnect from the device if the communication link is disrupted. When the scanner is setup so that the device initiates the connection, the device typically recovers the connection automatically. When the scanner initiates the connection, it typically requires the press of a button to activate and recover the connection.

This method of pairing is useful if a scanner will be used with more than one device.

You must have access to VoiceConsole to set up the pairing. For production use, Honeywell recommends that you create a specific device profile in VoiceConsole to store many of the following settings.

- 1. On the device, turn Bluetooth on and ensure **Scanner** is enabled on the **Server** tab of the **Bluetooth** window.
- 2. Using the EasySet Tool from Intermec and the Bluetooth address of the device to be paired, generate a barcode.
 - a) If the device does not have a barcode label, generate the FNC3 on a PC with a full keyboard and number pad. Hold the ALT key down and press the four-number sequence "1 0 7 9" on the number

pad. A small number 3 will appear to indicate the presence of the code. Some barcode software packages have special insertion keystrokes for FNC3.

- b) Find the Bluetooth MAC address of the device on the rear of the device near the belt clip. The address begins with "BT."
- 3. Using the EasySet Tool from Intermec generate a restore factory settings barcode.
- 4. Scan the barcode onscreen or print the barcode and scan it with the Intermec SF51 scanner.
- 5. Using VoiceConsole, locate the specific device to be paired with the scanner.
- 6. Using the EasySet Tool from Intermec generate a security disabled barcode.
- 7. View the properties of the device, and ensure that Bluetooth is enabled. If it is not enabled, click **Edit** this device and set **Bluetooth Enabled** to "enabled."
- 8. Scan the barcode onscreen or print the barcode and scan it with the Intermec SF51 scanner.
- 9. Select the Pair this device with a peripheral option.
- **10.** Using the EasySet Tool from Intermec and the Bluetooth address of the device to be paired, generate a barcode.
- 11. For Pairing Type select "Bluetooth Scanner."
- 12. Scan the barcode onscreen or print the barcode and scan it with the Intermec SF51 scanner.
- **13.** For **Connection Mode** select "Device listens for peripheral connection." The scanner is paired when its blue LED stops flashing.
- 14. For Security select "Enabled."
- 15. For Security Key enter four zeros "0000."
- 16. Click Pair with peripheral to initiate pairing.
- 17. To complete the pairing, scan the barcode created for the device in the first step.
- 18. When finished using the device and scanner, unpair the device by scanning the following barcode to set the scanner to slave mode. See *Clearing a pairing of an Intermec SF51 Cordless Scanner*.

Note: Performing this step ensures that the scanner does not generate spurious Bluetooth RF that could interfere with other transmissions.

Clearing a Pairing of an Intermec SF51 Scanner

When finished using the device and scanner for the day it is advisable to unpair the device from the scanner by setting the scanner to slave mode. Performing this step assures the scanner does not generate spurious Bluetooth RF that could potentially interfere with other radio transmissions including 802.11/RF network traffic.

Scan the following barcode:



Restore Factory Defaults of an Intermec SF51 Scanner

Scan the following barcode:

Restore factory defaults



Intermec SF51 Test Summary

Product Tested: Intermec SF51

Intermec Part Number: SF51B01100

Peripheral firmware version: 1.3.5.00034 & 1.2.5.0003

Peripheral Type: Bluetooth flashlight scanner (non-PDF version tested)

Comments: The scanner comes in both 2D and non-2D versions. The non-2D version was tested. The scanner is an imager with no moving part. Set-up information may be scanned directly from the screen. The use of the Intermec Easyset software is required to setup the scanner. This software may download settings to the scanner directly or generate bar codes for scanner set-up.

Test Cycle: Dec-2012 firmware version 1.3.5.0034 (originally tested Dec-2010 with firmware version 1.2.5.0003)

Honeywell software products used: VoiceClient 3.8.2 / VoiceCatalyst 1.1

Honeywell hardware products used: Talkman T5 Series, Talkman A500

Test Status: Passes all

Tests Performed - Peripheral BT Scanner Scenarios:

- · Basic Pairing with Device as Initiator
- · Basic Pairing with Device as Acceptor
- Sleep/On state change on device and effect on scanner (initiator and acceptor)
- · Operator state change on device and effect on scanner (initiator and acceptor)
- Out of Wi-Fi Range
- Out of Bluetooth Range
- Change paired Scanner
- Re-pair after power off
- · Scanner reconnects after placed in charger
- · Scanner reconnects after power up in a charger
- 200+ char barcode test
- Code 39 and 128 Barcode test
- Testing with other peripherals (SRX, BT printer etc)

Tests Performed - VoiceConsole Scenarios:

- · Pairing through VoiceConsole
- Clearing from VoiceConsole
- Pairing with multiple BT devices (Printer, SRX etc)
- · New pairing clears old pairing
- · Pair two Peripheral devices with same Talkman device

Tests Performed - Failure Scenarios:

- Battery pull of Talkman device when paired and running through scanning task
- Pull Talkman device battery in the middle of pairing

- Walk out of range of Wi-Fi and pull Talkman battery
- Walk out of BT range of paired devices and check for scanning operation and its communication with VoiceClient on T5 $\,$
- · Walk out of range of Talkman device and power down Peripheral (scanner) device
- Attempt to clear pairing from VoiceConsole when Peripheral device is out of BT range from Talkman device

Tests Performed - Stress Scenarios:

- · Pair Bluetooth scanner, printer, and SRX with Talkman device via VoiceConsole
- · Pair Bluetooth scanner, printer, SRX, then cradle Talkman device
- Pair Bluetooth scanner, printer, SRX, then pull/replace battery on Talkman device
- Pair Bluetooth scanner, printer, SRX, then power off/on Talkman device
- · Attempt to pair Talkman device with Scanner while device is cradled
- · Attempt to pair Scanner with device while scanner is being charged
- · Attempt to pair peripherals without/with required parameters

Notes

- A default Bluetooth PIN of 0000 must be used.
- The scanner may take 1-2 minutes to pair with the Talkman as either acceptor or initiator.
- The rapid scanning test seemed to indicate that the scanner was not sending data rapidly, perhaps discarding some scans.
- The scanner may sometimes disconnect, however it automatically will reconnect.
- The Bluetooth "paired with" address is not always correctly displayed in VoiceConsole.
- During initial pairing, with the scanner as an initiator, the scanner should be close to the T5 to successfully pair.
- The scanner range of connection seems to be less when it is the initiator and more when it is the acceptor.

Intermec SR61B/SR61T Scanners



Figure 14: Intermec SR61B and SR61T Scanners

- The scanner comes in wireless (SR61B) and wired (SR61T) versions.
- The Talkman A500 and all Talkman T5 Series devices support both versions of this scanner.
- Bluetooth wireless technology is used to connect the SR61B to a device. During use, it is possible for the scanner to disconnect from the device if the communication link is disrupted. When the scanner is setup so that the device initiates the connection, the device typically recovers the connection automatically. When the scanner initiates the connection, it typically requires the press of a button to activate and recover the connection.

- Intermec Easyset software is required to setup the SR61B scanner.
- Honeywell can provide initial set-up support for this scanner and answer general questions about scanning and working with a Talkman device. For detailed features and specifications of Intermec scanners, please refer to the manufacturer's website or contact the vendor.

Pairing the Intermec SR61B Scanner: Talkman Device Is the Initiator

During use, it is possible for the scanner to disconnect from the device if the communication link is disrupted. When the scanner is setup so that the device initiates the connection, the device typically recovers the connection automatically. When the scanner initiates the connection, it typically requires the press of a button to activate and recover the connection.

This method of pairing is useful if a single Talkman device will always be associated with one scanner.

You must have access to VoiceConsole to set up the pairing. For production use, Honeywell recommends that you create a specific device profile in VoiceConsole to store many of the following settings.

- 1. Using VoiceConsole, locate the specific Talkman device to be paired with the scanner.
- 2. View the properties of the device, and ensure that Bluetooth is enabled. If it is not enabled, click Edit this device and set Bluetooth Enabled to "enabled."
- 3. Select the Pair this device with a peripheral option.
- 4. For Pairing Type select "Bluetooth Scanner."
- 5. For Connection Mode select "Device initaties connection with peripheral."
- 6. In the **Bluetooth Adress** enter the Bluetooth MAC address of the scanner. This 12-character ID is labeled "MAC ID" and is found on the side of the battery unit of the scanner.
- 7. For Security select "Enabled."
- 8. For the Security Key enter four zeros (0000).
- 9. Click Pair with peripheral to initiate pairing.

Pairing the Intermec SR61B Scanner: Scanner Is the Initiator

During use, it is possible for the scanner to disconnect from the device if the communication link is disrupted. When the scanner is setup so that the device initiates the connection, the device typically recovers the connection automatically. When the scanner initiates the connection, it typically requires the press of a button to activate and recover the connection.

This method of pairing is useful if a scanner will be used with more than one Talkman A500/T5 Series device.

You must have access to VoiceConsole to set up the pairing. For production use, Honeywell recommends that you create a specific device profile in VoiceConsole to store many of the following settings.

- 1. Using the EasySet Tool from Intermec and the Bluetooth address of the device to be paired, generate a bar code for pairing the SR61B.
- 2. Scan the barcode onscreen or print the bar code and scan it with the Intermec SR61B scanner.
- **3.** Using VoiceConsole, locate the specific device to be paired with the scanner.
- 4. View the properties of the device, and ensure that Bluetooth is enabled. If it is not enabled, click Edit this device and set Bluetooth Enabled to "enabled."
- 5. Select the Pair this device with a peripheral option.
- 6. For Pairing Type select "Bluetooth Scanner."
- 7. For Connection Mode select "Device listens for peripheral connection."
- 8. For Security select "Enabled."
- 9. For Security Key enter four zeros "0000."

- 10. Click Pair with peripheral to initiate pairing.
- 11. To complete the pairing, scan the barcode created for the device in the first step.
- 12. When finished using the Talkman and scanner, unpair the Talkman by scanning the following barcode to set the scanner to acceptor mode.

Note: Performing this step ensures that the scanner does not generate spurious Bluetooth RF that could interfere with other transmissions.



Figure 15: Barcode for SR61B Bluetooth Disconnect

Setting up the Intermec SR61T Scanner

The SR61T must be configured in hibernation mode to work with a Talkman device. In hibernation mode, the scanner is not powered off between scans but draws very little power. Therefore, hibernation mode allows the user to scan rapidly with minimal impact on the Talkman battery.

- 1. In VoiceConsole, add the following setting to the task package advanced settings. barcodeport=red
- 2. Scan the following bar code to enable automatic hibernate mode.



Figure 16: Enable Hibernate Mode

3. Configure the appropriate baud rate for the Talkman device. Honeywell recommends using the following bar codes to set the rates for Talkman T5 Series and Talkman A500 devices. You can configure other baud rates is the Talkman devices are configured for the same rates.



Figure 17: Talkman T5 Series - RS-232; baud rate 9600



Figure 18: Talkman A500 - RS-232; baud rate 19200

Intermec SR61B Test Summary

Product Tested: Intermec SR61B, Area Imager

Intermec Part Number: SR61BA0400

Peripheral firmware version: SRB61B 2.02

Peripheral Type: Rugged Wireless Handheld scanner

Comments: The scanner comes in wired and wireless version. Honeywell have only tested the wireless version as noted in part number above. The scanner offers following scan engine options: standard range

laser (EL20), linear imager (EV10), Area imager (EA11). Honeywell tested area imager scan engine which supports 2D bar codes. The use of the Intermec Easyset software is required to setup the scanner. This software may download settings to the scanner directly or generate bar codes for scanner set-up. Non-Honeywell device specifications mentioned in this document are subject to change without notice.

Test Cycle: 1-Apr-2011

Honeywell software products used: VoiceCatalyst 1.0.1

Honeywell hardware products used: Talkman A500

Test Status: Passes some, workaround exists

Tests Performed - Peripheral Bluetooth Scanner Scenarios:

- · Basic Pairing with Device as initiator
- · Basic Pairing with Device as acceptor
- Sleep/On state change on device and effect on scanner (initiator and acceptor)
- · Operator state change on device and effect on scanner (initiator and acceptor)
- Out of Wi-Fi Range
- Out of Bluetooth Range
- Change paired Scanner
- Re-pair after power off
- Scanner reconnects after placed in charger
- · Scanner reconnects after power up in a charger
- 200+ char barcode test
- Code 39 and 128 Barcode test
- Rapid scanning (4/sec and 40/10 sec) does not seem to process all data
- Testing with other peripherals (SRX, Bluetooth printer etc)

Tests Performed - VoiceConsole Scenarios:

- · Pairing through VoiceConsole
- Clearing from VoiceConsole
- Pairing with multiple Bluetooth devices (Printer, SRX etc)
- New pairing clears old pairing
- Pair two Peripheral devices with same Talkman device

Tests Performed - Failure Scenarios:

- Battery pull of Talkman device when paired and running through scanning task
- · Pull Talkman device battery in the middle of pairing
- Walk out of range of Wi-Fi and pull Talkman battery
- Walk out of Bluetooth range of paired devices and check for scanning operation and its communication with VoiceClient on T5
- · Walk out of range of Talkman device and power down Peripheral (scanner) device
- Attempt to clear pairing from VoiceConsole when Peripheral device is out of Bluetooth range from Talkman device

Tests Performed - Stress Scenarios:

- · Pair Bluetooth scanner, printer, and SRX with Talkman device via VoiceConsole
- · Pair Bluetooth scanner, printer, SRX, then cradle Talkman device
- · Pair Bluetooth scanner, printer, SRX, then pull/replace battery on Talkman device
- Pair Bluetooth scanner, printer, SRX, then power off/on Talkman device
- Attempt to pair Talkman device with Scanner while device is cradled
- · Attempt to pair Scanner with device while scanner is being charged

· Attempt to pair peripherals without/with required parameters

Notes

- A default Bluetooth PIN of 0000 must be used.
- The rapid scanning test seemed to indicate that the scanner was not sending data rapidly, perhaps discarding some scans.
- For device as acceptor the scanner seems to randomly disconnect and then reconnect a couple seconds later.

Intermec SR61T Test Summary

Product Tested: Intermec SR61T, Wired Scanner

Intermec Part Number: SR61T2D-002

Peripheral firmware version: SR61T 2D BF4_212_CPU0

Peripheral Type: Rugged Wired Handheld scanner

Comments: The scanner comes in wired (SR61T) and wireless (SR61B) version. Honeywell tested the wireless version in April 2011 cycle. This report is only applicable for wired interface (SR61T).

Test Cycle: Dec-2011 (previously tested in Aug-2011)

Honeywell software products used: VoiceCatalyst 1.1 / VoiceClient 3.8.1

Honeywell hardware products used: Talkman A500, Talkman T5

Test Status: Passes all

Tests Performed - Peripheral Scanner Scenarios:

- Basic Pairing with Device
- Sleep/On state change on device and effect on scanner
- · Operator state change on device and effect on scanner
- Out of Wi-Fi Range
- Re-pair after power off
- Scanner reconnects after placed in charger
- · Scanner reconnects after power up in a charger
- · Code 39 and 128 Barcode test
- Rapid scanning (4/sec and 40/10 sec) does not seem to process all data
- Testing with other peripherals (SRX, Bluetooth printer etc)

Tests Performed - VoiceConsole Scenarios:

• None of the test cases are valid for wired scanners.

Tests Performed - Failure Scenarios:

· Battery pull of Talkman device when paired and running through scanning task

Tests Performed - Stress Scenarios:

- Pair Bluetooth scanner, printer, SRX, then pull/replace battery on Talkman device
- · Attempt to pair peripherals without/with required parameters

Notes

• SR61T needs to be configured in hibernation mode to limit the current draw at the beginning of each scan. In hibernation mode, the scanner is not powered off between scans and draws power. The power requirement during hibernation is very little and hence would have minimal impact on battery life

of a Talkman. Since scanner is never turned OFF between scans, hibernation mode also allows user to scan rapidly.

• This scanner will not work with the Talkman unless configured in hibernation mode.

Intermec SR30 Handheld Scanner



Figure 19: Intermec SR30 Handheld Scanner

• Honeywell can provide initial set-up support for this scanner and answer general questions about scanning and working with a Talkman device. For detailed features and specifications of Intermec scanners, please refer to the manufacturer's website or contact the vendor.

Setting up the Intermec SR30 Scanner

Note: Use the Intermec SR30 Cable (Intermec P/N 236-189-001). This cable was designed specifically to connect to Talkman devices.

- 1. In VoiceConsole, add the following setting to the task package advanced settings. barcodeport=red
- 2. Configure the appropriate baud rate for the Talkman device. Honeywell recommends using the following bar codes to set the rates for Talkman T5 Series and Talkman A500 devices. You can configure other baud rates is the Talkman devices are configured for the same rates.



Figure 20: Talkman T5 Series - RS-232; baud rate 9600



Figure 21: Talkman A500 - RS-232; baud rate 19200

Intermec SR30 Test Summary

Product Tested: Intermec SR30, Wired Scanner

Intermec Part Number: SR30AVTT01

Peripheral firmware version: EV12 A41P121_CPU1.0

Peripheral Type: Lightweight Wired Handheld scanner

Test Cycle: Dec-2011

Honeywell software products used: VoiceCatalyst 1.1 / VoiceClient 3.8.1

Honeywell hardware products used: Talkman A500, Talkman T5

Test Status: Passes all

Tests Performed - Peripheral Scanner Scenarios:

- Basic Pairing with Device
- · Sleep/On state change on device and effect on scanner
- · Operator state change on device and effect on scanner
- Out of Wi-Fi Range
- Re-pair after power off
- Scanner reconnects after placed in charger
- · Scanner reconnects after power up in a charger
- Code 39 and 128 Barcode test
- Rapid scanning (4/sec and 40/10 sec) does not seem to process all data
- Testing with other peripherals (SRX, Bluetooth printer etc)

Tests Performed - VoiceConsole Scenarios:

• None of the test cases are valid for wired scanners.

Tests Performed - Failure Scenarios:

· Battery pull of Talkman device when paired and running through scanning task

Tests Performed - Stress Scenarios:

- · Pair Bluetooth scanner, printer, SRX, then pull/replace battery on Talkman device
- · Attempt to pair peripherals without/with required parameters

Intermec PB50 Mobile Wearable Printer



Figure 22: Intermec PB50 Mobile Wearable Printer

- The PB50 is available for Bluetooth or wireless (WiFi) connectivity.
- The Talkman A500 and all Talkman T5 Series devices support this printer.

• Honeywell can provide initial set-up support for this printer and answer general questions about working with a Talkman device. For detailed specifications for this product, visit the Intermec website or contact the vendor.

Pairing with Intermec PB50 Printers

Please refer to Intermec documentation on configuring the PB50 for Honeywell applications. See Vocollect VoiceConsole Help for detailed instructions on pairing devices.

For Bluetooth pairing:

- 1. In VoiceConsole, add the following setting to the task package advanced settings: printerport=bt_print
- 2. Using VoiceConsole, locate the specific device to be paired with the printer.
- **3.** View the properties of the device, and ensure that Bluetooth is enabled. If it is not enabled, click **Edit this device** and set **Bluetooth Enabled** to "enabled."
- 4. Select the Pair this device with a peripheral option.
- 5. For Pairing Type select "Bluetooth Printer."
- 6. For Connection Mode select "Device initiates connection with peripheral."
- 7. In the **Bluetooth Address** enter the Bluetooth MAC address of the printer.
- 8. For Security select "Enabled."
- 9. For the Security Key enter four zeros (0000).
- 10. Click Pair with peripheral to initiate pairing.

For Wireless Network (WiFi) pairing:

- 1. In VoiceConsole, add the following setting to the task package advanced settings: printerport=network_print
- 2. Select the Pair this device with a peripheral option.
- 3. For Pairing Type select "Network Printer."
- **4.** Enter the printer's Pairing Name, Host, and Port. The default TCP/IP port for the PB50 printer is 9100.

Intermec PB50 Bluetooth Printer Test Summary

Product Tested: Intermec PB50, Bluetooth Printer

Intermec Part Number: PB50A12004100

Peripheral firmware version: 11.4.0

Peripheral Type: Bluetooth Mobile Wearable Label Printer

Test Cycle: Dec-2011

Honeywell software products used: VoiceCatalyst 1.1 / VoiceClient 3.8.1

Honeywell hardware products used: Talkman A500, Talkman T5

Test Status: Passes all

Tests Performed - Bluetooth Printer Scenarios:

- Basic Pairing with Device as initiator
- Test the ability to switch from Bluetooth scanners and printers to serial scanners and printers and back
- Test the ability to place the device into SLEEP and ON states while scanning and printing without affecting scanning and printing functionality

- Test the ability to noise sample while scanning and printing without affecting scanning and printing functionality
- Test the ability to retrain a word while scanning and printing without affecting scanning and printing functionality
- Test the ability to change an operator while scanning and printing without affecting scanning and printing functionality
- Test the ability to change an operator's speed setting while scanning and printing without affecting scanning and printing functionality
- Test the ability to change an operator's pitch setting while scanning and printing without affecting scanning and printing functionality
- Test the ability to change an operator's speaker setting while scanning and printing without affecting scanning and printing functionality

Tests Performed - Stress Scenarios:

- Test that scanning and printing can be done out of range and that ODRs are successfully transferred once back in range
- Test is to verify that scanning and printing can be done while out of range
- Test that a Bluetooth scanner and printer will re-pair with the device after being taken out of Bluetooth range of the device and then brought back
- Test validates the ability to change from one paired Bluetooth scanner to another and perform normal operations
- Device Re-Pairing after Power off

Notes

Intermec PB50 supports both IPL (Intermec Printer language) and CSim. In this testing, VoiceApp (Task) used IPL (Intermec Printer language) to communicate with PB50 printer. Please refer to PB50 printer documentation to configure the printer in IPL (Intermec Printer Language) mode.

Intermec PB50 with Escape-P Language Test Summary

Product Tested: Intermec PB50, Bluetooth Printer with Escape-P printer language

Intermec Part Number: PB50A12004100

Peripheral firmware version: 11.3.5

Peripheral Type: Bluetooth Mobile Wearable Label Printer

Test Cycle: Aug-2013

Honeywell software products used: VoiceCatalyst 1.2 / VoiceClient 4.2

Honeywell hardware products used: Talkman A500, Talkman T5

Test Status: Does not pass, could not get the printer to output data

Notes

Escape-P language is a command language developed by Epson to control printers. It was mainly used in dot-matrix printers. Few modern printers use ESC/P; instead most are driven through a standardized page description language. Honeywell suggests using the PB50A12004100 utilizing the more standard printer language IPL.

Intermec PB50 W-Fi Printer Test Summary

Product Tested: Intermec PB50, Wi-Fi Printer

Intermec Part Number: PB50B11804100

Peripheral firmware version: IPL 11.4.0

Peripheral Type: Wi-Fi Mobile Wearable Label Printer

Test Cycle: Dec-2011

Honeywell software products used: VoiceCatalyst 1.0.1 / VoiceClient 3.8.1

Honeywell hardware products used: Talkman A500, Talkman T5

Test Status: Passes all

Tests Performed - Bluetooth Printer Scenarios:

- · Basic Pairing with Talkman as initiator
- Test the ability to print using Talkman and VoiceConsole
- Test the ability to print after the device goes into sleep mode and wakes up again
- Test the ability to change an operator while scanning and printing without affecting scanning and printing functionality
- Test the ability to re-pair printer and terminal after the device is cradled
- Test that Wi-Fi printer displays proper status messages when trying to pair or already paired
- Test the ability to print while being paired with SRX Bluetooth headset and scanners

Tests Performed - Stress Scenarios:

- Test that scanning and printing can be done out of range and that ODRs are successfully transferred once back in range
- Test that a Bluetooth scanner and printer will re-pair with the device after being taken out of Bluetooth range of the device and then brought back
- Device Re-Pairing after Power off

Notes

Printing through VoiceConsole using "Test Print" does not print any pages. However, "Test Print" through Talkman and task works fine.

The printer testing was done in "CSim" mode. Please refer to printer documentation on how to configure printer in "CSim" mode.

Printer may take some time in printing ODR data when removed from the network and brought back again into the wireless coverage.

Intermec PB50 supports both IPL (Intermec Printer language) and CSim. In this testing, VoiceApp (Task) used CSim to communicate with PB50 printer.

Troubleshooting Intermec PB50 Wi-Fi Printers

- 1. Follow the general troubleshooting instructions described in the *Troubleshooting Peripheral Problems* appendix.
- 2. The PB50 Wi-Fi printer cannot be configured using a USB cable; hence, only serial cables should be used for configuring the network settings.
- **3.** "Print Set 4" should be used for communicating between PC and Wi-Fi Printer when assigning an IP to the printer.
- 4. When configuring using "Print Set4" verify that "SSID" and "Authentication Type None, Static WEP, Dynamic WEP or Wi-Fi Protected Access" is correctly set and when entering the WEP Key please use the following format "0x followed by the key" e.g. 0x12345678910111213141516171.
- 5. If nothing works, please follow the instructions below to reset the printer to factory settings:
 - a) Make sure that the printer is loaded with media.
 - b) Press the media cover release button to open the media cover.
 - c) Press the Standby button to turn the printer off.

- d) Press the Feed and Standby (On/Off) buttons at the same time until "CLOSE PRINTER DOOR" appears on the screen.
- e) Close the media cover. You are now in Extended Test mode.
- f) Press to select the next (On/Off) function button till you reach "Factory Default".
- g) Press "OK" to reset the printer back to factory settings.

Intermec PM4i Network Printer



Figure 23: Intermec PM4i Network Printer

- The Talkman A500 and all Talkman T5 Series devices support this printer.
- Honeywell can provide initial set-up support for this printer and answer general questions about working with a Talkman device. For detailed specifications for this product, visit the Intermec website or contact the vendor.

Wireless Network (WiFi) Pairing

- 1. In VoiceConsole, select the Pair this device with a peripheral option.
- 2. For Pairing Type select "Network Printer."
- **3.** Enter the printer's Pairing Name, Host, and Port. The default TCP/IP port for the PM4i printer is 9100.

Note: The network printer does not require the task package advanced settings *printerport=network_print*.

Intermec PM4i Network Printer Test Summary

Product Tested: Intermec PM4i, Network Printer

Intermec Part Number: PX4C01000000020

Peripheral firmware version: IPL 2.79.1

Peripheral Type: Network Desktop Printer

Test Cycle: Apr-2012

Honeywell software products used: VoiceCatalyst 1.0.1 / VoiceClient 3.8.1 / VoiceConsole 4.1

Honeywell hardware products used: Talkman A500, Talkman T5

Test Status: Passes all

Tests Performed - Bluetooth Printer Scenarios:

- Pairing with LAN printer through VoiceConsole and executing Scan and Print Task
 - Test the ability to print and scan after the Talkman device goes into sleep and wakes up again
- Test the ability to change an operator while scanning and printing without affecting scanning and printing functionality
- Test the ability to pair Bluetooth peripherals like SRX headsets and scanners along with LAN printer with Talkman devices
- · Test the ability to print while being paired with SRX Bluetooth headset and scanners
- Test that ability to re-pair printer and terminal after the device is cradled in the charger

Tests Performed - Stress Scenarios:

- Test that scanning and printing can be done when network goes down and that ODRs are successfully transferred once network is back up again
- Test the device re-pairing after turning device off and on
- · Test the device re-pairing after turning printer off and on
- Test that LAN printer Displays/Speaks proper status message on changing Advance Settings parameters when trying to pair or already paired
- Test if inability to resolve IP address of LAN printer could impact the functioning of the Talkman device

Notes

Printing through device menu options using "Test Network Printer Status" doesn't print any pages. This feature will be supported in future version of VoiceClient.

Honeywell Granit 1911i Bluetooth Scanner



Figure 24: Honeywell Granit 1911i Bluetooth Scanner

- All Talkman A700, A500, and T5 Series devices support the Honeywell Granit 1911i Bluetooth scanner.
- The scanner is capable of decoding 2D barcodes.
- Bluetooth[™] wireless technology is used to connect the Honeywell Granit 1911i Bluetooth scanner to a device. During use, it is possible for the scanner to disconnect from the device if the communication link is disrupted. When the scanner is setup so that the device initiates the connection, the device typically recovers the connection automatically. When the scanner initiates the connection, it typically requires the press of a button to activate and recover the connection.
- Honeywell can provide initial set-up support for this scanner and answer general questions about scanning and working with a Talkman device. For detailed features and specifications of Honeywell scanners, please refer to the manufacturer's website or contact the vendor.

Setting up the Honeywell Granit 1911i Bluetooth Scanner

The Honeywell Granit 1911i Bluetooth Scanner defaults to use the provided base station of an access point. The connection to the base station must be disabled to allow the scanner to connect to mobile computers.

The scanner must also be configured to send the correct CR/LF Suffix to all symbologies.

- 1. Print this page.
- 2. Scan the following code to disable the connection to the base station.



Figure 25: Disable Connection to the Base Station

3. Scan the following bar code to add a suffix to the bar code data.



Figure 26: Add Suffix to Bar Code Data

4. Scan the following bar codes to add suffixes to all symbologies



Figure 27: Add Suffixes to all Symbologies



Figure 28: Add Suffixes to all Symbologies

5. Scan 0D 0A to add a Carriage Return and Line Feed to the end of the barcode data 0



D



0

0

А



6. Scan the following bar code to save these changes to the scanner's memory.



Figure 29: Save

Pairing the Honeywell Granit 1911i Bluetooth Scanner: Talkman Device Is the Initiator

The Honeywell 1911i scanner will not connect with a Talkman device as initiator if "Auto Reconnect" is enabled. You must disable this before attempting to pair.

You must have access to VoiceConsole to set up the pairing. For production use, Honeywell recommends that you create a specific device profile in VoiceConsole to store many of the following settings.

- **1.** Print this page.
- 2. Scan the following barcode to disable "Auto Reconnect."



Figure 30: Disable "Auto Reconnect."

- 3. Using VoiceConsole, locate the specific Talkman device to be paired with the scanner.
- 4. View the properties of the device, and ensure that Bluetooth is enabled. If it is not enabled, click Edit this device and set Bluetooth Enabled to "enabled."
- 5. Select the Pair this device with a peripheral option.

- 6. For Pairing Type select "Bluetooth Scanner."
- 7. For Connection Mode select "Device initaties connection with peripheral."
- 8. In the **Bluetooth Adress** enter the Bluetooth MAC address of the scanner which can be found in the documentation provided with the scanner.
- 9. Enter the default pin of "1 2 3 4."
- 10. Click Pair with peripheral to initiate pairing.

Pairing the Honeywell Granit 1911i Bluetooth Scanner with a Talkman Device: Scanner Is the Initiator

You must have access to VoiceConsole to set up the pairing. For production use, Honeywell recommends that you create a specific device profile in VoiceConsole to store many of the following settings.

- **1.** Ensure that the Talkman is labeled with a code 128 barcode. This code contains the FNC3 code followed by the string "LnkB" and the unique Bluetooth MAC address of the Talkman.
 - a) If the Talkman does not have a barcode label, generate the FNC3 on a PC with a full keyboard and number pad. Hold the ALT key down and press the four-number sequence "1 0 7 9" on the number pad. A small number 3 will appear to indicate the presence of the code. Some barcode software packages have special insertion keystrokes for FNC3.
 - b) Find the Bluetooth MAC address of the Talkman on the rear of the device near the belt clip. The address begins with "BT."
- 2. Print this page.
- 3. Using VoiceConsole, locate the specific Talkman device to be paired with the scanner.
- 4. View the properties of the device, and ensure that Bluetooth is enabled. If it is not enabled, click **Edit this device** and set **Bluetooth Enabled** to "enabled."
- 5. Select the Pair this device with a peripheral option.
- 6. For Pairing Type select "Bluetooth Scanner."
- 7. For Connection Mode select "Device listens for peripheral connection."
- 8. Enter the default pin of "1 2 3 4."
- 9. Click Pair with peripheral to initiate pairing.
- 10. To complete the pairing, scan the barcode created for the Talkman device in first step.

Honeywell LXE 8651 Bluetooth Ring Scanner



Figure 31: Honeywell LXE Ring Scanner 8651 Wearable Bluetooth Scanner

- Supported with Honeywell LXE HX2 wearable devices only.
- The scanner is capable of decoding 1D barcodes.

- · For detailed specifications for this product, visit the Honeywell website.
- The Bluetooth scanner should not add any characters to the end of a barcode scan. Setting the Bluetooth ring scanner to its default will ensure this behavior.
- Honeywell can provide initial set-up support for this scanner and answer general questions about scanning and working with a Talkman device. For detailed features and specifications of Honeywell LXE scanners, please refer to the manufacturer's website or contact the vendor.

Honeywell LXE 8652 Bluetooth Ring Scanner



Figure 32: Honeywell LXE 8562 Ring Scanner

- All Talkman A700, A500, and T5 Series devices support the LXE[®] 8562 scanner.
- The scanner is capable of decoding 2D barcodes.
- Bluetooth[™] wireless technology is used to connect the Honeywell LXE 8652 to a device. During use, it is possible for the scanner to disconnect from the device if the communication link is disrupted. When the scanner is setup so that the device initiates the connection, the device typically recovers the connection automatically. When the scanner initiates the connection, it typically requires the press of a button to activate and recover the connection.
- The large black unit contains the Bluetooth $^{\scriptscriptstyle \mathsf{M}}$ radio and battery. The battery must be removed for charging.
- Honeywell can provide initial set-up support for this scanner and answer general questions about scanning and working with a Talkman device. For detailed features and specifications of Honeywell LXE scanners, please refer to the manufacturer's website or contact the vendor.

Honeywell LXE 8652 Bluetooth Ring Scanner Parts

Ring Scanner Part	Vocollect Part Number
Barcode Scanner, Bluetooth Ring (Honeywell LXE 8652) Kit (scanner with Bluetooth module, battery, and two wrist straps - large and small)	BC-613-1
Replacement scanner without Bluetooth module (Honeywell LXE 8652)	BC-613-101
Replacement battery, Bluetooth Ring Scanner (Honeywell LXE 8652)	BC-613-102
Replacement large hand wrist strap, barcode scanner, Bluetooth Ring (Honeywell LXE 8652)	BC-613-103
Replacement small hand wrist strap, barcode scanner, Bluetooth Ring (Honeywell LXE 8652)	BC-613-104
Replacement 8-bay battery charger (Honeywell LXE 8652)	BC-613-105
Replacement single battery charger (Honeywell LXE 8652)	BC-613-106
Replacement finger strap (20 pack), barcode scanner, Bluetooth Ring (Honeywell LXE 8652)	BC-613-107

Ring Scanner Part	Vocollect Part Number
Replacement finger strap assembly (20 pack), barcode scanner, Bluetooth Ring (Honeywell LXE 8652)	BC-613-108
US power cord cable	BC-613-109
Euro power cord cable	BC-613-110
British power cord cable	BC-613-111

Setting up the Honeywell LXE 8652 Scanner

The Honeywell LXE 8652 scanner only acknowledges the first "reset" barcode with an audible tone. Subsequence barcodes used for setup are silently acknowledged as successful when the scan beam extinguishes.

The scanner should be approximately 1 foot from the page with the centered red cross almost filling the barcode for the setup scans to be successful.

- 1. Print this page.
- 2. Scan the following code to ensure that the scanner's parameters are set to the default settings.



Figure 33: Set Factory Defaults

3. Scan the following bar code to set the reconnect timeout to OFF.



Figure 34: Set Reconnect Timeout to Off

4. Configure scan suffix 1 as carriage return (0x0D). Scan the following bar code to set scan suffix 1. TermChar1 (suffix 1) = 1013 = 0x0D = Carriage Return



Figure 35: Set Scan Suffix 1

5. Scan the following four bar codes to enter the character information.



6. Scan the following bar code to program terminating character 2 (suffix 2). TermChar2 (suffix 2) = 1010 = 0x0A = Line Feed



- Figure 36: Set Scan Suffix 2
- 7. Scan the following bar codes to enter the character information.
 - 1





8. Scan the following bar code to send data then scan suffix 1 followed by scan suffix 2.



Figure 37: Send Data/Scan Suffix 1 and 2

9. Scan the following bar code to disable the suspend timer condition.



Figure 38: Disable Suspend Timer

Pairing the Honeywell LXE 8652 Scanner: Talkman Device Is the Initiator

During use, it is possible for the scanner to disconnect from the device if the communication link is disrupted. When the scanner is setup so that the device initiates the connection, the device typically recovers the connection automatically. When the scanner initiates the connection, it typically requires the press of a button to activate and recover the connection.

This method of pairing is useful if a single Talkman T5 Series device will always be associated with one scanner.

You must have access to VoiceConsole to set up the pairing. For production use, Honeywell recommends that you create a specific device profile in VoiceConsole to store many of the following settings.

- 1. Print this page.
- 2. Scan the following barcode to ensure that the Honeywell LXE[®] 8652 scanner is ready to accept a connection, even if it was previously paired.

Caution: The scanner may not accept a connection if this barcode is not scanned.



Figure 39: Set Up Scanner as Acceptor

- 3. Using VoiceConsole, locate the specific Talkman device to be paired with the scanner.
- 4. View the properties of the device, and ensure that Bluetooth is enabled. If it is not enabled, click Edit this device and set Bluetooth Enabled to "enabled."
- 5. Select the Pair this device with a peripheral option.
- 6. For Pairing Type select "Bluetooth Scanner."
- 7. For Connection Mode select "Device initaties connection with peripheral."
- 8. In the **Bluetooth Adress** enter the Bluetooth MAC address of the scanner. This 12-character ID is labeled "MAC ID" and is found on the side of the battery unit of the scanner.
- 9. Click Pair with peripheral to initiate pairing.

Pairing the Honeywell LXE 8652 Scanner with a Talkman Device: Scanner Is the Initiator

During use, it is possible for the scanner to disconnect from the device if the communication link is disrupted. When the scanner is setup so that the device initiates the connection, the device typically recovers the connection automatically. When the scanner initiates the connection, it typically requires the press of a button to activate and recover the connection.

This method of pairing is useful if a scanner will be used with more than one Talkman T5 Series device.

You must have access to VoiceConsole to set up the pairing. For production use, Honeywell recommends that you create a specific device profile in VoiceConsole to store many of the following settings.

- 1. Ensure that the Talkman is labeled with a code 128 barcode. This code contains the FNC3 code followed by the capital letter "B" and the unique Bluetooth MAC address of the Talkman.
 - a) If the Talkman does not have a barcode label, generate the FNC3 on a PC with a full keyboard and number pad. Hold the ALT key down and press the four-number sequence "1 0 7 9" on the

number pad. A small number 3 will appear to indicate the presence of the code. Some barcode software packages have special insertion keystrokes for FNC3.

- b) Find the Bluetooth MAC address of the Talkman on the rear of the device near the belt clip. The address begins with "BT."
- 2. Print this page.
- 3. Using VoiceConsole, locate the specific Talkman device to be paired with the scanner.
- 4. View the properties of the device, and ensure that Bluetooth is enabled. If it is not enabled, click Edit this device and set Bluetooth Enabled to "enabled."
- 5. Select the Pair this device with a peripheral option.
- 6. For Pairing Type select "Bluetooth Scanner."
- 7. For Connection Mode select "Device listens for peripheral connection."
- 8. Click Pair with peripheral to initiate pairing.
- 9. To complete the pairing, scan the barcode created for the Talkman device in first step.
- **10.** When finished using the Talkman and scanner, unpair the Talkman by scanning the following barcode to set the scanner to acceptor mode.
 - Note: Performing this step ensures that the scanner does not generate spurious Bluetooth RF that could interfere with other transmissions.



Figure 40: Reset Scanner as Acceptor

➢ Note: To pair the scanner again, rescan the Talkman code 128 barcode.

Pairing the Honeywell LXE 8652 Scanner: Honeywell Device Is the Initiator

During use, it is possible for the scanner to disconnect from the device if the communication link is disrupted. When the scanner is setup so that the device initiates the connection, the device typically recovers the connection automatically. When the scanner initiates the connection, it typically requires the press of a button to activate and recover the connection.

This method of pairing is useful if a single device will always be associated with one scanner.

For information on specific device processes, see the documentation for the device.

Note: Ensure the device's onboard scanner is disabled on the **Data Collection** control panel of the device.

- 1. On the device, turn Bluetooth on.
- 2. Scan the Restore Factory Defaults bar code, located in the scanner's manual, with the scanner.
- 3. On the device, on the Bluetooth Devices panel, tap Discover.
- **4.** Tap and hold on the line for the scanner, and select **Pair as Scanner**. The scanner beeps and its blue LED flashes when the pairing is successful.

Pairing the Honeywell LXE 8652 Scanner with a Honeywell Device: Scanner Is the Initiator

During use, it is possible for the scanner to disconnect from the device if the communication link is disrupted. When the scanner is setup so that the device initiates the connection, the device typically recovers the connection automatically. When the scanner initiates the connection, it typically requires the press of a button to activate and recover the connection.

This method of pairing is useful if a scanner will be used with more than one device.

For information on specific device processes, see the documentation for the device.

- 1. On the device, turn Bluetooth on.
- 2. On the device, enable the device to use an external Bluetooth-capable scanner.
- **3.** Using an Elfring font tool, generate a barcode with the Bluetooth address of the device, and scan the barcode.

The scanner's blue LED flashes once every three seconds when the pairing is successful.

Honeywell LXE 8651 / 8652 Ring Scanners Test Summary

Product Tested: Honeywell LXE 8651, Honeywell LXE 8652

Honeywell Part Number: 8651100RINGSCR, 8652100RINGSCR

Peripheral firmware version: 1.2.0

Peripheral Type: Bluetooth Ring scanner (scanner and imager versions tested)

Comments: The 8651 and 8652 are virtually identical in appearance; however the 8652 (imager) has an additional window above the larger scanning window. The imager is capable of decoding 2D barcodes. The larger black unit contains the Bluetooth[™] radio and battery. This unit is the same for either model. Battery charger is sold separately and should be ordered in addition to scanner. An 8-bay battery charger is available. Battery must be removed for charging.

Test Cycle: 1-Dec-2010

Honeywell software products used: VoiceClient 3.6.1

Honeywell hardware products used: Talkman T5 Series (T5/T5m)

Test Status: Passes all

Tests Performed - Peripheral Bluetooth Scanner Scenarios:

- · Basic pairing with device as initiator
- Basic pairing with device as acceptor
- Sleep/On state change on device and effect on scanner (initiator and acceptor)
- · Operator state change on device and effect on scanner (initiator and acceptor)
- Out of Wi-Fi Range
- Out of Bluetooth Range
- Change paired Scanner
- Re-pair after power off
- · Scanner reconnects after placed in charger
- Scanner reconnects after power up in a charger
- 200+ char barcode test
- Code 39 and 128 Barcode test
- Rapid scanning (4/sec and 40/10 sec) does not seem to process all data
- Testing with other peripherals (SRX, Bluetooth printer etc)

Tests Performed - VoiceConsole Scenarios:

- Pairing through VoiceConsole
- Clearing from VoiceConsole
- Pairing with multiple Bluetooth devices (Printer, SRX etc)
- · New pairing clears old pairing
- Pair two Peripheral devices with same Talkman device

Tests Performed - Failure Scenarios:

- · Battery pull of Talkman device when paired and running through scanning task
- Pull Talkman device battery in the middle of pairing
- · Walk out of range of Wi-Fi and pull Talkman battery
- Walk out of Bluetooth range of paired devices and check for scanning operation and its communication with VoiceClient on T5
- · Walk out of range of Talkman device and power down Peripheral (scanner) device
- Attempt to clear pairing from VoiceConsole when Peripheral device is out of Bluetooth range from Talkman device

Tests Performed - Stress Scenarios:

- · Pair Bluetooth scanner, printer, and SRX with Talkman device via VoiceConsole
- Pair Bluetooth scanner, printer, SRX, then cradle Talkman device
- Pair Bluetooth scanner, printer, SRX, then pull/replace battery on Talkman device
- · Pair Bluetooth scanner, printer, SRX, then power off/on Talkman device
- · Attempt to pair Talkman device with Scanner while device is cradled
- · Attempt to pair Scanner with device while scanner is being charged
- Attempt to pair peripherals without/with required parameters

Notes

- The scanner has a very low level of 'self-illumination' and may have difficulty in poorly lit environments.
- If the scanner is the initiator to the Talkman becomes unpaired for any reason it requires a "button press" on the scanner to wake it up and cause it to re-pair with the Talkman. (Described in Overview).
- The scanner did not generate any excessive "pages", i.e. clutter RF, when it was initiator.

Honeywell LXE 8652 Ring Scanner with Talkman T2x Test Summary

Product Tested: Honeywell LXE 8652

Honeywell Part Number: 8652100RINGSCR

Peripheral firmware version: 1.2.0

Peripheral Type: Bluetooth Ring scanner (scanner and imager versions tested)

Comments: The 8651 and 8652 are virtually identical in appearance; however the 8652 (imager) has an additional window above the larger scanning window. The imager is capable of decoding 2D barcodes. The larger black unit contains the Bluetooth radio and battery. This unit is the same for either model. Battery charger is sold separately and should be ordered in addition to scanner. An 8-bay battery charger is available. Battery must be removed for charging.

Test Cycle: Aug-2011

Honeywell software products used: VoiceClient 3.8

Honeywell hardware products used: Talkman T2x

Test Status: Passes all

Tests Performed - Peripheral Bluetooth Scanner Scenarios:

- Basic Pairing with Device as Acceptor (by scanning the barcode that represents the dongle connected to the T2x device)
- · Sleep/On state change on device and effect on scanner
- · Operator state change on device and effect on scanner
- Out of Bluetooth Range
- Re-pair after power off
- · Scanner reconnects after placed in charger
- · Scanner reconnects after power up in a charger
- 200+ char barcode test
- · Code 39 and 128 Barcode test
- 2D Barcode

Tests Performed - VoiceConsole Scenarios:

• Since T2x with Bluetooth dongle configuration is not supported in VoiceConsole, these tests were not performed.

Tests Performed - Failure Scenarios:

- Battery pull of Talkman device when paired and running through scanning task
- Walk out of Bluetooth range of paired devices and check for scanning operation and its communication with VoiceClient on T2x
- Walk out of range of Talkman device and power down Peripheral (scanner) device

Notes

- The scanner has a very low level of 'self-illumination' and may have difficulty in poorly lit environments.
- If the scanner is the initiator to the Talkman becomes unpaired for any reason it requires a "button press" on the scanner to wake it up and cause it to re-pair with the Talkman. (Described in Overview).

Honeywell IS4225 Bar Code Reader



Figure 41: Honeywell (Metrologic) IS4225 Bar Code Reader replaces the IS4220

- The small hole at the rear of the bar code reader near the cable is the speaker that the reader uses to provide a confirming "beep" when a code has been successfully read. It is not a reset button. Objects should not be pushed through this opening because they will damage the speaker and possibly cause the reader to malfunction. This type of damage is not considered a warranty/repair item.
- · For detailed specifications for this product, visit the Honeywell website.

Honeywell IS4225 Bar Code Reader Specifications

Bar Code Reader Firmware Defaults

- The reader transmits at 9600 baud, 8 bits, no parity, 1 stop bit.
- The default suffix values of Carriage Return (hex 0D) and Line Feed (hex 0A) are sent after each scan.
- A confirming 'beep' tone is heard after each scan.
- Code scanned must be a minimum of 3 characters.
- Codes UPC, EAN, Code 39, Codabar, Code 128, Code 93, Interleaved 2 of 5 are enabled.

Vocollect RJ11 Connection Cable

- The Vocollect RJ11 connection cable (Symbol part # 735058) is used to connect a to a device.
- This connection cable has a Vocollect connector on one end (which connects to the device) and an RJ11 connector on the other end. Additional Symbol parts that are needed are as follows:
 - Part # RS1-I01010-00 RS1 Ring Scanner
 - Part # 21-40727-01 Ring Scanner Decoder
 - Part # 25-37384-02 Cable from the RS 1 Ring Scanner to the decoder

Resetting the Honeywell IS4220 Bar Code Reader to Firmware Defaults

• Print this page and scan the following from top to bottom. A confirming beep will be heard after each scan.



Figure 42: Enter Program Mode



Figure 43: Recall All Defaults



Figure 44: Exit Program Mode

Honeywell MS9535 Bluetooth Bar Code Reader

The Honeywell (Metrologic) MS9535 VoyagerBT paired with Talkman A500 or T5 series devices with the proper setup or paired with Talkman T2 series devices via the T2x Bluetooth Serial Adapter allows operators to perform cordless scanning with their voice-directed work.



Figure 45: Honeywell MS9535 Bluetooth Bar Code Reader and T2x Bluetooth Serial Adapter

- The Vocollect A500 and T5 Series devices can pair with the Honeywell scanner, either as initiators or acceptors. The setup includes settings in VoiceConsole and scanning the appropriate bar codes.
- Use barcode software to generate a barcode for pairing the Vocollect T2x Bluetooth Serial Adapter and Honeywell reader dynamically.
- Always take hold of the bar cade reader by its handle.
- Never remove the reader from a resting place by pulling on the reader's cable.
- When not in use, the bar code reader should be secured.
- For details, see the manufacturer's website.

Honeywell MS9535 Bluetooth Bar Code Reader Specifications

Bar Code Reader Firmware Defaults

- The Honeywell MS9535 must be at firmware version 10547 or newer in order to correctly operate with the T2x Series Bluetooth Serial Adapter
- The reader transmits at 9600 baud, 8 bits, no parity, 1 stop bit
- The default suffix values of Carriage Return (hex 0D) and Line Feed (hex 0A) are sent after each scan
- Set to keep-power-on ("BarcodeKeepPowerOn" must be set in the task to maintain a consistent connection with the Bluetooth Adapter)
- Beep sequences are heard on successful connection or reconnection with the Bluetooth Adapter and when the scanner is out of range of the Adapter (generally, greater than 30 feet or 10 meters).
- A confirming beep tone is heard after each scan
- A "razz" tone and flashing white status light are generated after a scan when the scanner is not communicating with the Bluetooth Adapter
- Code scanned must be a minimum of 3 characters
- Codes UPC, EAN, Code 39, Codabar, Code 128, Code 93, Interleaved 2 of 5 are enabled

Vocollect Part Numbers

- Part # BC-611-1 Bluetooth Scanning Kit (Honeywell MS 9535BT Scanner, charging cradle, T2x Bluetooth Adapter, and carrying pouch)
- Part # BC-611-102 Bar Code Scanner (Honeywell MS9535BT Scanner and charging cradle)

- Part # BC-611-105 T2x Bluetooth Serial Adapter and Carrying Pouch
- Part # BC-611-103 Carrying Pouch, Bluetooth Serial Adapter

Motorola LS3578-ER / LS3578-FZ and Honeywell LXE 8810 / 8820



Figure 46: Motorola LS3578-ER / LS3578-FZ and Honeywell LXE 8810 / 8820 Scanners

• These scanners are gun-based Bluetooth form factors.

Motorola Model	Honeywell LXE Model	Description
LS3578-ER	8820	Extended range scanner
LS-3578-FZ	8810	Fuzzy logic scanner, able to read damaged or poorly formed barcodes

• Honeywell can provide initial set-up support for this scanner and answer general questions about scanning and working with a Talkman device. For detailed features and specifications of Motorola or Honeywell scanners, please refer to the manufacturer's website or contact the vendor.

Setting up the Motorola LS3578 and Honeywell LXE 8810/8820 Scanners

Honeywell supplies these bar codes for convenience but warns that they may not reproduce with sufficient clarity for an accurate setup. Please refer to information from the manufacturer.

1. Scan the following bar code to restore factory defaults.



Figure 47: Restore Defaults

2. Scan the following bar code to set the serial port profile in initiator mode.


Figure 48: Set Serial Port as Initiator

3. Scan the following bar code to set scan options.



Figure 49: Set Scan Options

4. Scan the following bar code to send bar code data as is.



Figure 50: Send Bar Code Data as Is

5. Scan the following bar code to send data with suffix (default is CR/LF).



Figure 51: Send Data with Suffix

6. Scan the following bar code when done with scan options (enter).



Figure 52: Enter

7. Scan the following bar code to set the reconnect interval to indefinitely.



Figure 53: Attempt to Automatically reconnect Indefinitely

8. Scan the following bar code to set the connection maintenance interval to forever.



Figure 54: Set Connection Maintenance Interval to Forever

Pairing the LS3578 or 88xx Scanner: Talkman Device Is the Initiator

During use, it is possible for the scanner to disconnect from the device if the communication link is disrupted. When the scanner is setup so that the device initiates the connection, the device typically recovers the connection automatically. When the scanner initiates the connection, it typically requires the press of a button to activate and recover the connection.

This method of pairing is useful if a single Talkman device will always be associated with one scanner.

You must have access to VoiceConsole to set up the pairing. For production use, Honeywell recommends that you create a specific device profile in VoiceConsole to store many of the following settings.

1. Scan the following bar code to set the scanner in acceptor mode, ready to accept a connection. Perform this step even if the scanner was previously paired.



Figure 55: Set Serial Port Profile as Acceptor

- 2. Using VoiceConsole, locate the specific Talkman device to be paired with the scanner.
- 3. View the properties of the device, and ensure that Bluetooth is enabled. If it is not enabled, click Edit this device and set Bluetooth Enabled to "enabled."
- 4. Select the Pair this device with a peripheral option.
- 5. For Pairing Type select "Bluetooth Scanner."
- 6. For Connection Mode select "Device initaties connection with peripheral."
- 7. In the Bluetooth Adress enter the Bluetooth MAC address of the scanner.
- 8. For **Security** select "Enabled."
- 9. For the Security Key enter four zeros (0000).
- 10. Click Pair with peripheral to initiate pairing.

Pairing the the LS3578 or 88xx Scanner: Scanner Is the Initiator

During use, it is possible for the scanner to disconnect from the device if the communication link is disrupted. When the scanner is setup so that the device initiates the connection, the device typically recovers the connection automatically. When the scanner initiates the connection, it typically requires the press of a button to activate and recover the connection.

This method of pairing is useful if a scanner will be used with more than one Talkman A500/T5 Series device.

You must have access to VoiceConsole to set up the pairing. For production use, Honeywell recommends that you create a specific device profile in VoiceConsole to store many of the following settings.

- 1. Ensure that the Talkman is labeled with a code 128 barcode. This code contains the FNC3 code followed by the capital letter "B" and the unique Bluetooth MAC address of the Talkman.
 - a) If the Talkman does not have a barcode label, generate the FNC3 on a PC with a full keyboard and number pad. Hold the ALT key down and press the four-number sequence "1 0 7 9" on the number pad. A small number 3 will appear to indicate the presence of the code. Some barcode software packages have special insertion keystrokes for FNC3.
 - b) Find the Bluetooth MAC address of the Talkman on the rear of the device near the belt clip. The address begins with "BT."

- 2. Using VoiceConsole, locate the specific Talkman device to be paired with the scanner.
- 3. View the properties of the device, and ensure that Bluetooth is enabled. If it is not enabled, click Edit this device and set Bluetooth Enabled to "enabled."
- 4. Select the Pair this device with a peripheral option.
- 5. For Pairing Type select "Bluetooth Scanner."
- 6. For Connection Mode select "Device listens for peripheral connection."
- 7. Click Pair with peripheral to initiate pairing.
- 8. To complete the pairing, scan the barcode created for the Talkman device in first step.
- **9.** When finished using the Talkman and scanner, unpair the Talkman by pairing the scanner with its base or by scanning the following barcode unpair the scanner.

Note: Performing this step ensures that the scanner does not generate spurious Bluetooth RF that could interfere with other transmissions.



Figure 56: Unpair the Scanner

➢ Note: To pair the scanner again, rescan the Talkman code 128 barcode.

Motorola LS3578-ER / LS3578-FZ and LXE 8810 / 8820 Test Summary

Product Tested: Motorola LS3578-ER, Motorola LS3578-FZ, Honeywell LXE 8810, Honeywell LXE 8820

Honeywell LXE Part Number: 8820A327SCNRBTER, 8810A326SCNRBTFZ

Motorola Order Number: LS3578-ER, LS3578-FZ

Peripheral firmware version: not available

Peripheral Type: Bluetooth gun scanner (fuzzy logic version and extended range)

Comments: This scanner is a gun-type of scanner which is offered in a fuzzy logic model (for decoding difficult or damaged bar codes) and an extended range model (for scanning large barcodes from a distance). It does not appear to display any Bluetooth behavior which interferes with other devices; however it is important to set up all Bluetooth parameters to assure that the scanner remains paired as desired for use with Talkman. The specific model of scanner can be identified by looking at the top underside area of the scanner which will identify it as either an LS3578-FZ or LS3578-ER regardless of the top logo. Charging bases for the scanners appear to be fully interchangeable – i.e. one charging base will charge any of these four models.

Test Cycle: 1-Dec-2010

Honeywell software products used: VoiceClient 3.6.1

Honeywell hardware products used: Talkman T5 Series (T5/T5m)

Test Status: Passes all

Motorola CS3070 Bluetooth Scanner



Figure 57: Motorola CS3070 Scanner

- The CS3070 is a 1D dongle type scanner.
- The Talkman A500 and all Talkman T5 Series devices support this scanner.
- Honeywell can provide initial set-up support for this scanner and answer general questions about scanning and working with a Talkman device. For detailed features and specifications of Motorola scanners, please refer to the manufacturer's website or contact the vendor.

Setting up the Motorola CS3070 Bluetooth Scanner

- 1. Plug the Motorola CS3070 Bluetooth Scanner into your PC through the USB cable that comes with the scanner.
- 2. Once the scanner is connected open the Parameters folders and find the config.ini file.
- **3.** Open the config.ini file in a text editor to modify some default values so that the CS3070 will work with Talkman devices.
 - a) Change the suffix to CR, LF (default is LF, CR).
 - b) Change the BTProfile to SPP (default is HID).
 - c) Set prefix (0x69) to 0x00.
 - d) Set suffix 1 (0x68) to 0x0d (CR).
 - e) Set suffix 2 (0x6a) to 0x0a (LF).
- 4. Find the parameter **BTPin** and write down the value. This is the pin for Bluetooth pairing.
- 5. Save your changes to the config.ini file.
- 6. Find the Bluetooth address of the scanner by following these steps.
 - a) Press and hold the **Plus** button for 5 seconds to power on the scanner.
 - b) Press and hold the round button that has the Motorola logo for another 5 seconds or until you hear a beep and see a blue flashing light, the scanner is now in discoverable mode.

c) From your PC, under Bluetooth connections search for this scanner to find the Bluetooth address. When you have the address, follow the usual steps in VoiceConsole to pair the scanner to the Talkman.

Motorola CS3070 Test Summary

Product Tested: Motorola CS3070 BT scanner

Motorola Part Number: 204WW21007500

Peripheral firmware version: PAABCS00-009-R00

Peripheral Type: Cordless scanner

Comments:

- Motorola CS3070 BT scanner worked well, but it requires some configuration steps to make the scanner ready to scan. See setup instructions.
- CS3070 will not pair in initiator mode.
- CS3070 requires VoiceConsole to pair in acceptor mode only. Follow the standard procedure for Talkman initiating a connection to the device.
- There is no Bluetooth address displayed anywhere on the packaging or on the device. You have to search for the device with your PC in order to find the Bluetooth MAC address.

Test Cycle: Aug-2013

Honeywell software products used: VoiceCatalyst 1.2 / VoiceClient 3.8.2

Honeywell hardware products used: Talkman T5 and Talkman A500

Test Status: Passes with issues and workarounds.

Tests Performed - Basic Pairing Scenarios:

- Basic Pairing with Talkman device as initiator, Motorola CS3070 as acceptor, works as expected.
- Run Scan and Print task after connecting with Bluetooth printer and scanner and perform several iterations of the Scan and Print task, works as expected.
- Make scanner as acceptor and connect with A500/T5 as initiator, works as expected.
- Bluetooth address of Motorola CS3070 scanner is displayed in VoiceConsole properly in the "Paired with" column, works as expected.

Tests Performed - Bluetooth Range Scenarios:

The purpose of this test is to verify that the Motorola CS3070 Bluetooth scanner and printer will re-pair with the device after being taken out of Bluetooth range of the device and then brought back into range.

- Run with the Bluetooth scanner as acceptor.
- · Combine the Bluetooth scanner with the SRX headset and a Bluetooth printer.
- Take Bluetooth scanner and printer out of range, scanner gets disconnected.
- Bring Bluetooth scanner and printer back in range, scanner reconnects. Works as expected.
- Power down Bluetooth scanner when out of range, then power up in range, then run Scan and Print task.
- Power down Bluetooth scanner when out of range, then power up while coming in range, then run Scan and Print task.
- · Clear out-of-range scanner from VoiceConsole, then re-pair scanner.

When out of Bluetooth range, all peripherals were disconnected. If kept out of range for more than 1 or 2 minutes, the scanner had to be brought out of sleep state on coming back in range.

Tests Performed - Re-Pairing after Power Off Scenarios:

The following test validates the ability of the Talkman device and Bluetooth scanner to re-pair after they are powered off and rebooted. These scenarios test multiple power off/reboot sequences of the Talkman device and the Bluetooth scanner. They are run with the Bluetooth scanner as the acceptor.

- 1. Pair a Bluetooth scanner to a device.
- 2. Execute Scan and Print task, two iterations.
- 3. Power all devices off.
- 4. Power all devices back on.
- 5. Execute Scan and Print task, two iterations.
- 6. Repeat steps 3-5 except pull the battery to power off the device.
- 7. Repeat steps 3-5 except only power off the Bluetooth peripherals DO NOT power off the terminal/device

Tests Performed - Charger Scenarios:

- · Test Bluetooth scanner as acceptor reconnects after taking out of the charger, works as expected
- Test Bluetooth scanner as acceptor reconnects after it is powered on and taken out of the charger, works as expected

Tests Performed - State Change Scenarios:

- Test operator state change: SRX Headset, Motorola CS3070 Bluetooth scanner and Bluetooth printer were connected to the Talkman device, the Scan and Print task was run, and later the operator was changed while running through the task. The Scan and Print task was run again to check the operator change effect on scanning and printing. Worked as expected.
- Test SLEEP/ON state change: Motorola CS3070 Bluetooth scanner as acceptor, SRX Headset and Bluetooth printer were connected to the Talkman device, the Scan and Print task was run, and in between the device state was changed from SLEEP to ON and vice versa. Works as expected.
- Test change paired scanner: Change from one paired Bluetooth scanner to another and perform normal operations, then re-pair the original Bluetooth scanner. Run with the Bluetooth scanner as initiator and acceptor. Works as expected.
- Test different types of bar code scanning: Scan barcode 39, 128, 200+ Characters, and 50 Characters bar codes. Works as expected.

Tests Performed - Failure Scenarios:

- Pull Talkman battery during Scan and Print task exectution. Works as expected.
- Pull Talkman device battery in the middle of pairing. Works as expected.

Tests Performed - Stress Scenarios:

- Pair Bluetooth scanner, printer, SRX, then pull battery on Talkman device. Works as expected.
- Attempt to pair peripherals without/with required parameters. Works as expected.

Motorola RS507 Ring Scanner



Figure 58: Motorola RS507 Ring Scanner

- The scanner/imager supports 1D and 2D barcodes and comes in multiple configurations suited for different environments and different barcodes.
- The Talkman A700, A500 and all Talkman T5 Series devices support this scanner.
- Honeywell can provide initial set-up support for this scanner and answer general questions about scanning and working with a Talkman device. For detailed features and specifications of Motorola scanners, please refer to the manufacturer's website or contact the vendor.

Setting up the Motorola RS507 for Scanner-Initiated Pairing

Honeywell supplies these bar codes for convenience but warns that they may not reproduce with sufficient clarity for an accurate setup. Please refer to information from the manufacturer.

1. Scan the following bar code to restore factory defaults.



Set Factory Defaults

Figure 59: Restore Defaults

- 2. Set the RS507 in SPP mode by following these steps.
 - a) Perform clean boot of the RS507 (refer to RS507 documentation).
 - b) Remove the battery from the RS507.
 - c) Press and hold the Restore key.
 - d) Install the battery into the RS507.
 - e) Continue to hold the Restore key for about five seconds until a chirp is heard and the scan LEDs flash green.
 - f) Scan the following SPP bar code.



Figure 60: Set SPP Mode

3. Disable or enable Bluetooth authentication PIN by scanning the following bar codes. By default, Bluetooth authentication mode is enabled. The PIN is 12345.





Figure 61: Disable Authentication PIN

Figure 62: Enable Authentication PIN

4. Generate a bar code for pairing. Pairing bar code content: <Fnc 3> B + Bluetooth address. If the device to which the scanner connects has a Bluetooth address of 11:22:33:44:55:66, then the pairing bar codes:



Figure 63: B112233445566

5. Refer to RS507 documentation for additional configuration bar codes.

Motorola RS507 Test Summary

Product Tested: Motorola RS507 Hands-free Cordless Imager

Motorola Part Number: RS507-IM200000TWR

Peripheral firmware version: PAAACS00-004-R00D0

Peripheral Type: Hands-free cordless scanner

Comments: This report is only applicable for the part number (RS507-IM200000TWR) tested by Honeywell. Honeywell expects other parts to work with Talkman but this document does not provide results of other parts.

Test Cycle: April 2013, updated from April 2012

Honeywell software products used: VoiceClient 3.8.1

Honeywell hardware products used: Talkman T5 and Talkman A500

Test Status:

- Talkman T5 = Passes all
- Talkman A500 = Passes with issues/workarounds

Tests Performed - Peripheral Bluetooth Scanner Scenarios:

- Basic Pairing with Device as Initiator:
 - 1. Run Scan and Print task after connecting with Bluetooth printer and scanner and perform several iterations of Scan and Print, works as expected.
 - 2. Make scanner as acceptor and connect with A500 as initiator, works as expected.
 - 3. Bluetooth address of Motorola RS507 scanner is displayed in the VoiceConsole properly under "Paired with" column works as expected.
- Sleep/On state change on device and effect on scanner (initiator and acceptor): Tests the ability to place the device into and remove it from the SLEEP and ON states while scanning and printing without affecting scan and print functionality. Run with the Bluetooth scanner as acceptor with a Bluetooth printer.
 - 1. Motorola RS507 Bluetooth scanner, SRX headset and Bluetooth printer were connected to device, Scan and Print task was run, in between the device state was made to change from SLEEP to ON and Vice versa.Works as expected.
- Operator state change on device and effect on scanner (initiator and acceptor): Tests the ability to change an operator while scanning and printing without affecting scan and print functionality. Run with the Bluetooth scanner as acceptor. Works as expected.
 - 1. SRX, Motorola RS507 Bluetooth scanner and Bluetooth printer were connected to device, Scan and Print task was run. Later the operator was changed while running through the task. The Scan and Print task was run again to check the operator change effect on scanning and printing.
- Out of Bluetooth Range:

- **1.** Run with the Bluetooth scanner as acceptor.
- 2. This test also tests combining the Bluetooth scanner with the SRX headset and a Bluetooth printer.
- **3.** Bluetooth scanner and printer will re-pair with the device after being taken out of Bluetooth range of the device and then brought back into range.
- Change paired Scanner: Tests the ability to change from one paired Bluetooth scanner to another and perform normal operations, then re-pair the original Bluetooth scanner. Run with the Bluetooth scanner as initiator and acceptor.
- Re-pair after power off: Tests multiple power off/reboot scenarios of the Talkman and the Bluetooth Scanner. Run with the Bluetooth scanner as the Acceptor.
 - 1. Pair a Bluetooth scanner to a device
 - 2. Execute Scan and Print task, two iterations
 - 3. Power all devices off
 - 4. Power all devices back on
 - 5. Execute Scan and Print task, two iterations
 - 6. Repeat steps 3-5 except pull the battery to power off the device
 - 7. Repeat steps 3-5 except only power off the Bluetooth peripherals DO NOT power off the terminal/device
- Scanner reconnects after placed in charger: Tests that the device can be put in the charger and that all Bluetooth peripherals will reconnect after it is removed from the charger. Run with the Bluetooth scanner as the acceptor. Works as expected.
- Scanner reconnects after power up in a charger: Tests that the device can be powered up in the charger and that all Bluetooth peripherals will reconnect after it is removed from the charger. Run with the Bluetooth scanner as acceptor. Works as expected.
- 200+ char and 50 char barcode test: works as expected.
- Code 39 and 128 Barcode test: works as expected.

Tests Performed - Failure Scenarios:

- Battery pull of Talkman device when paired and running through scanning task
- Pull Talkman device battery in the middle of pairing

Tests Performed - Stress Scenarios:

- · Pair Bluetooth scanner, printer, SRX, then pull/replace battery on Talkman device
- Attempt to pair peripherals without/with required parameters

Notes:

- The scanner has been tested with Talkman T5 and A500 devices.
- The Motorola RS507 Bluetooth scanner does not require any parameter i.e. "barcodeport=bt_scan" to be put in Advance settings for it to work.
- Workaround: The Motorola RS507 Bluetooth scanner works only in acceptor mode with the A500.
- Motorola RS507 as Acceptor:
 - 1. When the Motorola RS507 Bluetooth Scanner is taken out of range it gets disconnected, and when it comes back in Bluetooth range it reconnects.
 - **2.** The RS507 worked fine when powered down out of range, then powered up when in range and running the Scan and Print task.
 - **3.** Out of Bluetooth range peripheral device can be cleared from VoiceConsole and then can be paired back.
- When Bluetooth Peripherals are out of Bluetooth range of the Talkman A500 and cleared all pairing from VoiceConsole, the A500 Bluetooth feature also got "Disabled" (VoiceConsole showed Bluetooth Enabled, Bluetooth Discoverable and Bluetooth Headset Manual pairing as Disabled). This happened 2 times out of 6 attempts during testing.

- When out of Bluetooth range all peripherals got disconnected, but on coming back in range the Talkman A500 Bluetooth stopped working (occurred only once).
- When swapping Bluetooth scanners, the alternate scanner did not work. We had to do fresh pairing steps to get alternate scanner to work. Observed just once.

Motorola RS409 Wearable Ring Scanner



Figure 64: Motorola RS409 Wearable Ring Scanner

- Supported with WT4090 wearable terminals only.
- Never remove the scanner from a resting place by pulling on the scanner's cable.
- When not in use, the bar code reader should be secured.
- For detailed specifications for this product, see Motorola's website.

SATO MB200i Mobile Bluetooth Printer



Figure 65: SATO MB200i Mobile Bluetooth Printer

- The Talkman A500 and all Talkman T5 Series devices support this printer, with limitations.
- Honeywell can provide initial set-up support for this printer and answer general questions about working with a Talkman device. For detailed specifications for this product, visit the Intermec website or contact the vendor.

SATO MB200i Bluetooth Printer Test Summary

Product Tested: SATO MB200i Bluetooth Printer

SATO Part Number: WWMB22070

Peripheral firmware version: 16.01.02.00

Peripheral Type: Bluetooth Mobile Wearable Label Printer

Test Cycle: Apr-2011

Honeywell software products used: VoiceCatalyst 1.1 / VoiceClient 3.8.1 / VoiceConsole 4.1

Honeywell hardware products used: Talkman A500, Talkman T5

Test Status: Passes some, workarounds exist

Tests Performed - Bluetooth Printer Scenarios:

- · Basic pairing with device as initiator
- Test the ability to switch from Bluetooth scanners and printers to serial scanners and printers and back
- Test the ability to place the device into SLEEP and ON states while scanning and printing without affecting scanning and printing functionality
- Test the ability to noise sample while scanning and printing without affecting scanning and printing functionality
- Test the ability to retrain a word while scanning and printing without affecting scanning and printing functionality
- Test the ability to change an operator while scanning and printing without affecting scanning and printing functionality
- Test the ability to change an operator's speaker setting while scanning and printing without affecting scanning and printing functionality

Tests Performed - Stress Scenarios:

- Test that scanning and printing can be done out of range and that ODRs are successfully transferred once back in range
- Test is to verify that scanning and printing can be done while out of range
- Test that a Bluetooth scanner and printer will re-pair with the device after being taken out of Bluetooth range of the device and then brought back
- Test validates the ability to change from one paired Bluetooth scanner to another and perform normal operations
- Device Re-Pairing after Power off

Notes

SATO MB200i supports SATO Barcode Printer Language (SBPL). In this testing, VoiceApp used SBPL to communicate with SATO MB200i printer. Please refer to MB200i printer documentation to configure the printer in SBPL (SATO Barcode Printer Language) mode.

MB200i supports multiple interfaces such as serial, IRDA, Bluetooth and Wi-Fi. This testing was limited to Bluetooth interface.

Printer does not pair back automatically with Talkman when a printer head is opened to replace the roll of labels. To pair the printer again, you would need to:

- 1. Restart Talkman A500 and T5/T5m
- 2. Reload task
- 3. Restart Printer

If printer is taken out of Bluetooth range and brought back in Bluetooth range, printer does not pair back. (This happens only if print commands are sent to the printer while it's out of Bluetooth range for 10 minutes or more). To pair the printer with Talkman again, you would need to:

- 1. Restart Talkman A500 and T5/T5m $\,$
- 2. Reload task
- 3. Restart Printer

Also, queued ODRs are frequently lost when printer goes out of Bluetooth range. This means that some of the labels may never get printed. Honeywell recommends that printer should always be kept in the Bluetooth range (~ 10 m).

If the battery is taken out of the printer and then put it back, printer does not pair back. To pair the printer with Talkman again, you would need to:

- 1. Restart Talkman A500 and T5/T5m
- 2. Reload task
- 3. Restart Printer

Socket Cordless Ring Scanner Series 9M

- The Cordless Ring Scanner (CRS) requires Vocollect VoiceClient 3.1 or later and is only compatible with Talkman A500/T5 devices. Support is not currently provided on other Vocollect hardware or software versions for this product.
- The documentation included with the Socket Cordless Ring Scanner (CRS) Series 9M from Socket Communications includes utility software and references for use with the scanner and PC applications. This software is not to be used in conjunction with Talkman A500/T5 wearable computers and should not be installed. References in the documentation to PC applications and control of the CRS from PC applications should be ignored.
- Other documentation from Socket Communications regarding general use, specifications, and bar codes to control scanner functions is applicable to use with Vocollect Voice[®] systems.
- For detailed specifications and safety information, and for procedures for charging the battery and assembly, refer to Socket's CRS documentation.

Wearing a Socket CRS

- 1. Insert the wrist unit (the large component of the CRS that contains the battery) into the protective case, pulling the cable through the hole at the top of the case. The case protects the CRS from damage, but its use is not required. If you do not choose to use the case, attach the two Velcro[®] strips directly to the Bluetooth unit.
- 2. Connect the free end of the cable to ring scanner.
- 3. Attach the finger strap to the bottom of the ring scanner.
- 4. Put on the wrist strap and adjust it so it is secure and comfortable.
- 5. Put the ring scanner on your index finger and adjust the finger strap so it is secure and comfortable.
- 6. Attach the wrist unit to the wrist strap by pressing the Velcro strips together.

Documentation from Socket Communications

The documentation included with the Socket Cordless Ring Scanner (CRS) Series 9M from Socket Communications includes utility software and references for use with the scanner and PC applications. This software is not used in conjunction with the Talkman T5 devices and should not be installed. References in the documentation to PC applications and control of the CRS from PC applications should be ignored.

Other documentation from Socket Communications regarding general unit use, specifications and bar codes to control scanner functioning is applicable to use with Vocollect Voice systems.

Scanning

Press the trigger button and aim your finger at the bar code. The red laser beam should cover the entire width of the bar code. Please refer to the Socket User's Guide for scanning tips. When data is read and sent to the mobile computing device, the laser will turn off. Depending on the scanner settings, the ring scanner's LED may flash green to indicate a good read.

Configuring a Socket CRS

You must set the following configurable parameters to the Recommended Values to support the use of the Socket CRS:

Parameter	Description	Values	Recommended Value
BarcodeBufferDataTimeout	Sets the time (in milliseconds) VoiceClient will wait for data from the peripheral device before the entire raw data buffer is cleared.	0 to 60000	60000
BarcodeCleanPrefixedChars	Parses the barcode data for characters (<cr<, <lf<,="" are<br="" null)="" that="">incorrectly prefixed and removes them if found.</cr<,>	Default = 750 0 = disable 1 = enable	1 = enable
BarcodeVerboseDebug	Prints additional lines of debug detailing the data received from the peripheral device and what data is cleared if the BarcodeBufferDataTimeout is exceeded.	0 = disable 1 = enable	1 = enable

Pairing the Socket Cordless Ring Scanner with a Talkman T5

During use, it is possible for the scanner to disconnect from the device if the communication link is disrupted. When the scanner is setup so that the device initiates the connection, the device typically recovers the connection automatically. When the scanner initiates the connection, it typically requires the press of a button to activate and recover the connection.

The Bluetooth connection between the Socket[®] Cordless Ring Scanner (CRS) and a Talkman T5 is managed through VoiceConsole. See VoiceConsole Help for details on the use of Bluetooth with Vocollect Voice systems.

Note that Each CRS has a unique Bluetooth address that is clearly labeled on the underside of the wrist-worn Bluetooth transmitter and battery pack. This address is needed to associate a CRS with a T5.

Because a T5 will be explicitly associated with a specific CRS via VoiceConsole, Honeywell strongly recommends clearly labeling the CRS wrist units to identify them with the specific T5 to which they are paired. A clear identification and operational procedure for keeping specific scanners associated with specific Talkman T-Series devices will be beneficial in the work environment.

Connecting the CRS to the Talkman T5 Device

The Socket Cordless Ring Scanner, with scanner part number ending in REV D, can be paired with a T5-series device where the scanner acts as the initiator.

You must have access to VoiceConsole to set up the pairing. For production use, Honeywell recommends that you create a specific device profile in VoiceConsole to store many of the following settings.

- 1. In VoiceConsole, select Bluetooth scanner as the pairing type for the device you want to pair with the scanner. For the Connection Mode, select Device listens for peripheral connection. See VoiceConsole Help for details.
- 2. Create a bar code using Symbology Code 128 in the following form, where AABBCCDDEEFF is the Bluetooth MAC address found on the T5: **#FNIAABBCCDDEEFF#**
 - a) Bar codes can be created at a Web site such as www.barcoding.com/upc.
- 3. Turn on the Socket CRS and the T5.
- **4.** Scan the bar code you created. The scanner beeps and begins flashing rapidly. It is now searching for the device.
- **5.** Place the scanner and device closely together to pair. The Bluetooth LED on the scanner blinks once every four seconds to indicate that the scanner and device have paired.

Setting up for Carriage-Return (CR) and Line Feed (LF) Termination

It is likely that the scanner will need to minimally be set to send a carriage-return (CR) and line-feed (LF) character, hexadecimal 13 and 10 respectively. Scanning each bar code from the sequence below from top left to bottom right will:

- Initialize the scanner to defaults (top right bar code, may be omitted if not needed)
- Set Scan Suffix 1 to be a carriage return (next 5 bar codes)
- Set Scan Suffix 2 to be a line feed (top right 5 bar codes)
- Request scans be formatted with scanned data followed by Suffix 1 and then Suffix 2 (bottom right bar code)



Socket Series 7X Imager



Figure 66: Socket Series 7X Imager

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• The scanner supports 2D bar codes and comes with multiple options.

Socket Series 7X Test Summary

Product Tested: Socket Series 7X imager

Socket Part Number: CX2854-1276

Peripheral firmware version: 1.2.0

Peripheral Type: Bluetooth compact handheld scanner

Test Cycle: 1Apr-2011

Honeywell software products used: VoiceCatalyst 1.0.1

Honeywell hardware products used: Talkman A500

Test Status: Does not pass.

Notes:

- The scanner does not pair with Talkman with Scanner as an initiator. It is not possible to conduct the remaining tests as the scanner does not pair with the Talkman.
- The scanner does pair with Talkman when Talkman initiates the Bluetooth connection. However, Talkman received 3 additional characters at the beginning of the bar code. The same test was repeated with Talkman T5 and VoiceClient 3.8 with the same results. It is currently not possible to use this scanner with Talkman devices.

Socket Series 7P Imager



Figure 67: Socket Series 7P Imager

• The scanner supports 1D bar codes and comes in multiple configurations suited for different environments and different bar codes.

Setting up the Socket Series 7P Scanner

The scanner must be configured by scanning the bar codes below before pairing it with Talkman device. All of these bar codes are available from chs-series7-v3_ug-1.pdf (Socket User Guide).

1. Scan the following bar code to set Serial Port Profile (SPP) mode.



Figure 68: Change CHS to SPP Mode

2. Scan the following bar code to configure the scanner in discoverable (acceptor) mode.



Figure 69: Set Acceptor Mode

3. Scan the following bar code to configure the scanner to add a tab and carriage return at the end of decoded data.



Figure 70: Set Carriage Return and Line Feed

4. Scan the following bar code to configure the scanner to transmit decoded data in raw (unpacketed) format.



Figure 71: Set Raw Mode

5. Follow standard steps for pairing with a Talkman as initiator. Note that this device may require a security code. If none is to be used, set it to "0000" which is its default.

Socket Series 7P Test Summary

Product Tested: Socket Series 7P Imager

Socket Part Number: CX-2862-1298

Peripheral firmware version: 1.2.0

Peripheral Type: Bluetooth compact handheld scanner

Comments: This report is only applicable for the part number (CX-2862-1298) tested by Honeywell.

Test Cycle: Dec-2011

Honeywell software products used: VoiceCatalyst 1.1 / VoiceClient 3.8.1

Honeywell hardware products used: Talkman A500 and Talkman T5

Test Status: Passes with workarounds

Tests Performed - Peripheral Bluetooth Scanner Scenarios:

- · Basic pairing with device as initiator
- · Basic pairing with device as acceptor
- · Sleep/On state change on device and effect on scanner (initiator and acceptor)
- · Operator state change on device and effect on scanner (initiator and acceptor)
- Out of Wi-Fi Range
- Out of Bluetooth Range
- Change paired Scanner
- · Re-pair after power off
- Scanner reconnects after placed in charger
- Scanner reconnects after power up in a charger
- 200+ char barcode test
- · Code 39 and 128 Barcode test
- Rapid scanning (4/sec and 40/10 sec)
- Testing with other peripherals (SRX, Bluetooth printer etc)

Tests Performed - VoiceConsole Scenarios:

- · Pairing through VoiceConsole
- Clearing from VoiceConsole
- Pairing with multiple Bluetooth devices (Printer, SRX etc)
- · New pairing clears old pairing
- · Pair two Peripheral devices with same Talkman device

Tests Performed - Failure Scenarios:

- · Battery pull of Talkman device when paired and running through scanning task
- · Pull Talkman device battery in the middle of pairing
- · Walk out of range of Wi-Fi and pull Talkman battery
- Walk out of Bluetooth range of paired devices and check for scanning operation and its communication with VoiceClient on T5 $\,$
- · Walk out of range of Talkman device and power down Peripheral (scanner) device
- Attempt to clear pairing from VoiceConsole when Peripheral device is out of Bluetooth range from Talkman device

Tests Performed - Stress Scenarios:

- · Pair Bluetooth scanner, printer, and SRX with Talkman device via VoiceConsole
- · Pair Bluetooth scanner, printer, SRX, then cradle Talkman device
- · Pair Bluetooth scanner, printer, SRX, then pull/replace battery on Talkman device
- Pair Bluetooth scanner, printer, SRX, then power off/on Talkman device
- · Attempt to pair Talkman device with Scanner while device is cradled
- · Attempt to pair Scanner with device while scanner is being charged
- · Attempt to pair peripherals without/with required parameters

Notes

• The scanner does not pair with Talkman when the scanner is initiator. It is, however, possible to use this scanner with Talkman as an initiator. Pairing of scanner with Talkman needs to be done using VoiceConsole. Hence this scanner may not be suitable for all customers.

Socket Series 7Mv3 Scanner



Figure 72: Socket Series 7Mv3 Scanner

• The scanner supports 1D bar codes and comes in multiple configurations suited for different environments and different bar codes.

Socket Series 7Mv3 Test Summary

Product Tested: Socket Series 7Mv3

Socket Part Number: CX-2860-1298

Peripheral firmware version: 1.2.0

Peripheral Type: Bluetooth compact handheld scanner

Comments: This report is only applicable for the part number (CX-2860-1298) tested by Honeywell.

Test Cycle: Mar-2013

Honeywell software products used: VoiceCatalyst 1.2 / VoiceClient 3.8.2 / VoiceConsole 4.2

Honeywell hardware products used: Talkman A500 and Talkman T5

Test Status: Passes

Tests Performed - Peripheral Bluetooth Scanner Scenarios:

- · Basic pairing with device as initiator:
 - 1. Run Scan and Print task after connecting with Bluetooth printer and scanner and perform several iterations of the Scan and Print task, works as expected.
 - 2. Make scanner as acceptor and connect with A500 as initiator, works as Expected.
 - **3.** Bluetooth address of Socket scanners (7Mv3) is displayed in the VoiceConsole properly under "Paired with" column works as Expected.
- Sleep/On state change on device and effect on scanner: Tests the ability to place the device into and remove it from the SLEEP and ON states while scanning and printing without affecting scan and print functionality. Run with the Bluetooth scanner as Acceptor with a Bluetooth printer.

- Socket (7Mv3) Bluetooth scanner, SRX headset and Bluetooth printer were connected to device, Scan and Print task was run, in between the device state was made to change from SLEEP to ON and Vice versa. It worked as expected.
- Operator state change on device and effect on scanner: Tests the ability to change an operator while scanning and printing without affecting scan and print functionality. Run with the Bluetooth scanner as Acceptor.
 - SRX, Socket scanners and Bluetooth printer were connected to device, Scan and Print task was run and later operator was changed while running through the task and then again Scan and Print task was run to check the operator change effect on scanning and printing. Works as expected.
- Out of Bluetooth Range: Tests that Socket Bluetooth (7Mv3) scanner and printer will re-pair with the device after being taken out of Bluetooth range of the device and then brought back into range. Run with scanner as acceptor, and combines Bluetooth scanner with the SRX headset and a Bluetooth printer.
 - The Socket Bluetooth scanner disconnects when it goes out of range; it reconnects when it comes back in Bluetooth range.
 - The Socket Bluetooth scanner works fine when powered down out of range, then powered up in range, and then run with the Scan and Print task.
 - The Socket Bluetooth scanner can be cleared from VoiceConsole when out of Bluetooth range, then re-paired.
- Change paired scanner: Tests the ability to change from one paired Bluetooth scanner to another and perform normal operations then re-pair the original Bluetooth scanner. Run the the Bluetooth scanner as the initiator and acceptor.
- Re-pair after power off: Tests the ability of the device and Bluetooth peripherals to repair after they are powered off and rebooted. Tests multiple power off/reboot scenarios of the Talkman and the Bluetooth scanner. Run with the Bluetooth scanner as the acceptor.
 - 1. Pair a Bluetooth scanner to a device.
 - 2. Execute the Scan and Print task, two iterations. Works as expected.
 - **3.** Power off all devices.
 - 4. Power all devices back on.
 - 5. Execute the Scan and Print task, two iterations. Works as expected.
 - **6.** Repeat steps 3-5 except pull the battery to power off the device. Works as expected.
 - 7. Repeat steps 3-5 except only power off the Bluetooth peripherals DO NOT power off the terminal/device. Works as expected.
- Scanner reconnects after placed in charger: Tests that all Bluetooth peripherals will reconnect with the device after it is put in the charger then removed from the charger. Run with the Bluetooth scanner as acceptor. Works as expected.
- Scanner reconnects after power up in a charger: Tests that all Bluetooth peripherals will reconnect with the device after it is powered up in the charger and removed from the charger. Works as expected.
- · Code 39, 128, 200+ Characters, and 50 Characters bar code test: Works as expected.

Tests Performed - Failure Scenarios:

- Battery pull of Talkman device when paired and running through scanning task: Works as expected.
- Pull Talkman device battery in the middle of pairing: Works as expected.

Tests Performed - Stress Scenarios:

- Pair Bluetooth scanner, printer, SRX, then pull/replace battery on Talkman device: Works as expected.
- Attempt to pair peripherals without/with required parameters: Works as expected.

Notes

- Socket 7Mv3 scanner works only in acceptor mode with a Talkman A500.
- Socket 7Mv3 scanner did not require any parameter i.e. "barcodeport=bt_scan" to be put in Advance settings for it to work.
- When Bluetooth Peripherals are out of Bluetooth range of A500 and all pairings are cleared from VoiceConsole, the Talkman A500 Bluetooth feature also got "Disabled" (VoiceConsole showed Bluetooth Enabled, Bluetooth Discoverable and Bluetooth Headset Manual pairing as Disabled). This happened 1 time out of 6 attempts during testing.
- When swapping Bluetooth scanners, the second scanner did not work. The pairing sequence had to be initiated to get the second scanner to work. Also, the pairing had to be cleared from VoiceConsole.

Socket Series 9Pv3 Ring Scanner



Figure 73: Socket Series 9Pv3 Ring Scanner

• The scanner supports 1D bar codes and comes in multiple configurations suited for different environments and different bar codes.

Socket Series 9Pv3 Test Summary

Product Tested: Socket Series 9Pv3 ring scanner

Socket Part Number: RS5519-1075

Peripheral firmware version: 1.2.0

Peripheral Type: Bluetooth compact ring scanner

Comments: This report is only applicable for the part number (RS5519-1075) tested by Honeywell.

Test Cycle: Mar-2013

Honeywell software products used: VoiceCatalyst 1.2 / VoiceClient 3.8.2 / VoiceConsole 4.2

Honeywell hardware products used: Talkman A500 and Talkman T5

Test Status: Passes

Tests Performed - Peripheral Bluetooth Scanner Scenarios:

• Basic pairing with device as initiator:

- **1.** Run the Scan and Print task after connecting with Bluetooth printer and scanner and perform several iterations of the Scan and Print task, works as expected.
- 2. Make scanner as acceptor and connect with A500 as initiator, works as expected.
- **3.** Bluetooth address of Socket scanners (9Pv3) is displayed in the VoiceConsole properly under "Paired with" column works as Expected.
- Sleep/On state change on device and effect on scanner: Tests the ability to place the device into and remove it from the SLEEP and ON states while scanning and printing without affecting scan and print functionality. Run with the Bluetooth scanner as Acceptor with a Bluetooth printer.
 - Socket (9Pv3) Bluetooth scanner, SRX headset and Bluetooth printer were connected to device, Scan and Print task was run, in between the device state was made to change from SLEEP to ON and Vice versa. It worked as expected.
- Operator state change on device and effect on scanner: Tests the ability to change an operator while scanning and printing without affecting scan and print functionality. Run with the Bluetooth scanner as Acceptor.
 - SRX, Socket scanners and Bluetooth printer were connected to device, Scan and Print task was run and later operator was changed while running through the task and then again Scan and Print task was run to check the operator change effect on scanning and printing. Works as expected.
- Out of Bluetooth Range: Tests that Socket Bluetooth (9Pv3) scanner and printer will re-pair with the device after being taken out of Bluetooth range of the device and then brought back into range. Run with scanner as acceptor, and combines Bluetooth scanner with the Bluetooth SRX headset and a Bluetooth printer.
 - The Socket Bluetooth scanner disconnects when it goes out of range; it reconnects when it comes back in Bluetooth range.
 - The Socket Bluetooth scanner works fine when powered down out of range, then powered up in range, and then run with the Scan and Print task.
 - The Socket Bluetooth scanner can be cleared from VoiceConsole when out of Bluetooth range, then re-paired.
- Change paired scanner: Tests the ability to change from one paired Bluetooth scanner to another and perform normal operations then re-pair the original Bluetooth scanner. Run the the Bluetooth scanner as the initiator and acceptor.
- Re-pair after power off: Tests the ability of the device and Bluetooth peripherals to repair after they are powered off and rebooted. Tests multiple power off/reboot scenarios of the Talkman and the Bluetooth scanner. Run with the Bluetooth scanner as the acceptor.
 - **1.** Pair a Bluetooth scanner to a device.
 - 2. Execute the Scan and Print task, two iterations. Works as expected.
 - **3.** Power off all devices.
 - 4. Power all devices back on.
 - 5. Execute the Scan and Print task, two iterations. Works as expected.
 - 6. Repeat steps 3-5 except pull the battery to power off the device. Works as expected.
 - 7. Repeat steps 3-5 except only power off the Bluetooth peripherals DO NOT power off the terminal/device. Works as expected.
- Scanner reconnects after placed in charger: Tests that all Bluetooth peripherals will reconnect with the device after it is put in the charger then removed from the charger. Run with the Bluetooth scanner as Acceptor. Works as expected.
- Scanner reconnects after power up in a charger: Tests that all Bluetooth peripherals will reconnect with the device after it is powered up in the charger and removed from the charger. Works as expected.
- Code 39, 128, 200+ Characters, and 50 Characters bar code test: Works as expected.

Tests Performed - Failure Scenarios:

- · Battery pull of Talkman device when paired and running through scanning task: Works as expected.
- Pull Talkman device battery in the middle of pairing: Works as expected.

Tests Performed - Stress Scenarios:

- Pair Bluetooth scanner, printer, SRX, then pull/replace battery on Talkman device: Works as expected.
- Attempt to pair peripherals without/with required parameters: Works as expected.

Notes

- Socket 9Pv3 scanner works only in acceptor mode with a Talkman A500.
- Socket 9Pv3 scanner did not require any parameter i.e. "barcodeport=Bluetooth_scan" to be put in Advance settings for it to work.
- When Bluetooth Peripherals are out of Bluetooth range of A500 and all pairings are cleared from VoiceConsole, the Talkman A500 Bluetooth feature also got "Disabled" (VoiceConsole showed Bluetooth Enabled, Bluetooth Discoverable and Bluetooth Headset Manual pairing as Disabled). This happened 1 time out of 6 attempts during testing.
- When swapping Bluetooth scanners, the second scanner did not work. The pairing sequence had to be initiated to get the second scanner to work. Also, the pairing had to be cleared from VoiceConsole.
- Socket 9Pv3 is suitable for scanning all linear and some stacked 2D bar codes.

Symbol LS4208 Bar Code Scanner



Figure 74: Symbol LS4208 Bar Code Gun

- Always take hold of the Symbol[®] bar code scanner by its handle.
- Never remove the scanner from a resting place by pulling on the scanner's cable.
- When not in use, the bar code scanner should always be placed back into its holster.
- For detailed specifications for this product, visit Symbol's website.
- The Symbol LS4208 bar code scanner and holster are sold separately.

Programming Symbol LS4208 Bar Code Scanners

You can program the Symbol LS4208 bar code scanner to match the default settings of a Talkman device.

The default settings are:

- 9600 baud
- 8 data bits
- · No parity
- 1 stop bit
- 1. Print this page.

2. Scan the following code to ensure that the scanner's parameters are set to the default settings.



Figure 75: Set All Defaults

3. Scan the following Scan Options bar code to change the scan data format.



Figure 76: Set Scan Options to Change Data Format

4. Scan the following bar code to set the scan data format to <DATA> <SUFFIX>.



Figure 77: Set to Data Format to <DATA> <SUFFIX>

5. Scan the following Enter bar code to complete the data format change.



Figure 78: Set Data Format Change

Symbol LS3408-FZ20005/LS3408-ER20005 Bar Code Scanners



Figure 79: Symbol Bar Code Reader

- Always take hold of the $\operatorname{Symbol}^{\circledast}$ bar code scanner by its handle.

- Never remove the scanner from a resting place by pulling on the scanner's cable.
- When not in use, the bar code reader should be secured.
- For detailed specifications for this product, visit Symbol's website.
- The Symbol LS3408-FZ20005 bar code reader and holster are sold separately.

Programming Symbol LS3408 Bar Code Scanners

You can program the Symbol RS-1 Decoder and the Symbol LS3408-FZ2005 bar code scanner to match the default settings of a Talkman device.

The default settings are:

- 9600 baud
- 8 data bits
- · No parity
- 1 stop bit
- 2 terminating characters (0x0d and 0x0a)
- 1. Print this page.
- 2. Scan the following code to ensure that the scanner's parameters are set to the default settings.



Figure 80: Set All Defaults

3. Scan the following bar code to set the RS 1 so that it does not use parity.



Figure 81: Set Parity to None (0x04)

4. Scan the following bar code to set the RS 1 to send two terminating characters (suffix).



Figure 82: Set to Send Two Terminating Characters--Data, Suffix1, Suffix2 (0x03)

5. Scan the following bar code to program terminating character 1 (suffix 1). TermChar1 (suffix 1) = 1013 = 0x0D = Carriage Return 0

1

3



Figure 83: Scan Suffix 1

6. Scan the following four bar codes to enter the character information. 1



 Scan the following bar code to program terminating character 2 (suffix 2). TermChar2 (suffix 2) = 1010 = 0x0A = Line Feed



Figure 84: Scan Suffix 2

8. Scan the following bar codes to enter the character information. 1



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Symbol LS3008 Bar Code Scanner

Figure 85: Symbol LS3008 Bar Code Scanner



0

1

0

- Always take hold of the Symbol[®] bar code scanner by its handle.
- Never remove the scanner from a resting place by pulling on the scanner's cable.
- When not in use, the bar code scanner should always be placed back into its holster.
- · For detailed specifications for this product, visit Symbol's website.
- The Symbol LS3008 bar code scanner and holster are sold separately.

Programming Symbol LS3008 Bar Code Scanners

You can program the Symbol LS3008 bar code scanner to match the default settings of a Talkman device.

The default settings are:

- 9600 baud
- 8 data bits
- No parity
- 1 stop bit

- 1. Print this page.
- 2. Scan the following code to ensure that the scanner's parameters are set to the default settings.



Figure 86: Restore Defaults

3. Scan the following Scan Options bar code to change the scan data format.



Figure 87: Set Scan Options to Change Data Format

4. Scan the following bar code to set the scan data format to <DATA> <SUFFIX>.



Figure 88: Set to Data Format to <DATA> <SUFFIX>

5. Scan the following Enter bar code to complete the data format change.



Figure 89: Set Data Format Change

Symbol RS 1 Ring Scanner and Decode Block Bar Code Reader



Figure 90: Symbol[®] RS 1 Ring Scanner

- The Symbol[®] RS 1 Ring Scanner is a non-decoded bar code reader that must use an external decode block to connect to the device.
- The Vocollect RJ11 connection cable (Symbol part # 735058) is used to connect a Symbol RS 1 Ring Scanner to a device. This connection cable has a Vocollect connector on one end (which connects to the device) and an RJ11 connector on the other end.

• For detailed features and specifications of the Symbol RS 1 ring scanner, please refer to the manufacturer's website.

Symbol RS 1 Ring Scanner and Decode Block Bar Code Reader Specifications

Ring Scanner Firmware Defaults

- Scanner transmits at 9600 baud, 8 bits, no parity, 1 stop bit
- Enabled to decode: UPC/EAN, Code 128, Code 39, Interleaved 2 of 5
- Disabled from decode: Code 93, Discrete 2 of 5, Codabar, MSI Plessey, RSS
- No prefixes & suffixes added

Toshiba Tec Bluetooth Printer B-EP2D-GH30-QM-R



Figure 91: Toshiba Tec Bluetooth Printer B-EP2D-GH30-QM-R

Honeywell can provide initial set-up support for this printer and answer general questions about working with a Talkman device. For detailed specifications for this product, visit the Toshiba website or contact the vendor.

Printer Setup

- 1. Using VoiceConsole, locate the specific device to be paired with the printer.
- 2. View the properties of the device, and ensure that Bluetooth is enabled. If it is not enabled, click Edit this device and set Bluetooth Enabled to "enabled."
- 3. Select the Pair this device with a peripheral option.
- 4. For Pairing Type select "Bluetooth Printer."
- 5. For Connection Mode select "Device initiates connection with peripheral."
- 6. In the Bluetooth Address enter the Bluetooth MAC address of the printer.
- 7. For Security select "Disabled."
- 8. Click Pair with peripheral to initiate pairing.

Toshiba Tec Printer B-EP2D-GH30-QM-R Test Summary

Product Tested: Toshiba Tec Printer B-EP2D-GH30-QM-R

Toshiba Part Number: 2302W801116

Peripheral Type: Bluetooth Printer

Test Cycle: Aug-2013

Honeywell software products used: VoiceCatalyst 1.2 / VoiceConsole 4.2

Honeywell hardware products used: Talkman A500

Test Status: Passes all

Tests Performed - Bluetooth Printer Scenarios:

- Pairing Bluetooth headset, scanner, and Toshiba printer with Talkman A500 as initiator: Tests basic pairing scenarios.
 - Device name as a "number" does not affect the ability of the device under test.
 - Device name as a "single digit" does not affect the ability of the device under test.
 - Device name as "Very Long Name" does not affect the ability of the device under test.
 - Device name as "Accented and wide characters" does not affect the ability of the device under test.
 - Verify that use of Host name as "Standard text" does not affect the ability of the device under test.
 - Verify that the use of the host name as incorrect "Octet values" does not crash the device under test.
- Sleep/On state change: Tests the ability to place the device into SLEEP and ON states while scanning and printing without affecting scanning and printing functionality.
 - Printer association is maintained through device shutdown.
 - Printer association is maintained through a task load.
 - Printer association is NOT maintained through a device profile load.
 - Printer association is maintained through device timeout shutdown.
 - Proper printer status appears in VoiceConsole's interface once an association is attempted.
- Operator state change: Tests the ability to change an operator while scanning and printing without affecting scanning and printing functionality.
 - 1. Begin scanning and printing operations. While scanning and printing, change operator via button menu selection (i.e. Operator and Plus/Minus buttons).
 - 2. Following operator load, continue to execute several iterations of the Scan and Print task.
 - 3. Reiterate step 2 at least two times.
- Out of Range device test: Tests that scanning and printing can be done out of Wi-Fi range and that ODRs are successfully transferred once back in range.
 - · Ability to queue printer ODRs while out of AP range.
 - Ability to queue printer ODRs while out of range of the printer under test.
 - Ability to queue printer ODRs while out of AP range, power off a device, and then come back into network range and print the queued ODRs.
 - Ability to queue printer ODRs while out of printer range, power off a device, and then come back into printer range and print the queued ODRs.
 - Ability to induce the "Pending" and "Assigned" printer association status and view the status in VoiceConsole.
- Device Re-Pairing after Power-off and State Change: Tests that the device and Bluetooth printer re-pair after they are powered on.
 - 1. Pair a Bluetooth printer to a Talkman A500/T5.
 - 2. Execute the Scan and Print task, two iterations.
 - **3.** Power off all devices.
 - **4.** Power on all devices.
 - 5. Execute the Scan and Print task, two iterations.

- 6. Repeat steps 3-5 except pull the battery to power off the device.
- **7.** Repeat steps 3-5 except only power off the Bluetooth peripherals DO NOT power off the terminal/device.

Scenarios covered:

- A printer association can be created with the device in a variety of states.
- A printer association is maintained through device shutdown.
- A printer association is maintained through a task load.
- Device in Charger: Tests that the device can be put in the charger and after it is removed Bluetooth Toshiba printer and Bluetooth peripherals will reconnect with "Restart Task in Charger= Enabled."
 - 1. Pair a Bluetooth Printer to a Talkman A500.
 - 2. Execute Scan and Print task, two iterations.
 - 3. Place the device in the charger.
 - 4. Wait until the device LED is blinking fast green, and then remove the device from the charger.
 - **5.** All Bluetooth peripherals should reconnect, and you should be able to hear the device through the SRX headset.
 - 6. Execute the Scan and Print task, two iterations.
- Ability to pair various Bluetooth peripherals: Tests that Bluetooth peripherals like SRX headsets and scanners can be paired with a Talkman A500 device along with Toshiba Bluetooth printer.
 - 1. Pair the Bluetooth Printer to a Talkman A500/T5.
 - 2. Pair an SRX headset through VoiceConsole/Manual.
 - 3. Pair a Bluetooth scanner as acceptor/initiator through VoiceConsole.
 - 4. Execute the Scan and Print task, two iterations.
 - 5. Place the device in the charger.
 - 6. Wait until the device LED is blinking fast green and then remove the device from the charger.
 - 7. All Bluetooth peripherals should reconnect, and you should be able to hear the device through the SRX headset.
 - 8. Execute the Scan and Print task, two iterations.

Scenarios covered:

- Pair a Bluetooth scanner to A500 to which a Bluetooth printer is associated.
- Pair an SRX headset and a Bluetooth scanner to A500 that is associated to a Bluetooth printer.
- Printer switching: Tests that a different Bluetooth printer can be switched with the Toshiba Bluetooth printer and printing functionality is not broken with a Talkman A500/T5.
 - 1. Pair a Toshiba Bluetooth printer to a Talkman A500/T5 along with a Bluetooth scanner.
 - 2. Execute two iterations of the Scan and Print task.
 - 3. Pair a different Bluetooth Printer with a Talkman A500/T5.
 - 4. Execute two iterations of the Scan and Print task.
 - 5. Re-pair the Toshiba printer and run the Scan and Print task.

Notes

VoiceConsole at times has a delay in showing the proper status during sleep/on state change testing.

Sometimes the printer may go into sleep mode. Pressing the power key for few seconds and the queued ODRs will be transferred and printed.

Toshiba Tec Bluetooth Printer B-SP2D-GH30-R



Figure 92: Toshiba Tec Bluetooth Printer B-SP2D-GH30-R

Honeywell can provide initial set-up support for this printer and answer general questions about working with a Talkman device. For detailed specifications for this product, visit the Toshiba website or contact the vendor.

Printer Setup

- 1. Using VoiceConsole, locate the specific device to be paired with the printer.
- 2. View the properties of the device, and ensure that Bluetooth is enabled. If it is not enabled, click Edit this device and set Bluetooth Enabled to "enabled."
- 3. Select the Pair this device with a peripheral option.
- 4. For Pairing Type select "Bluetooth Printer."
- 5. For Connection Mode select "Device initiates connection with peripheral."
- 6. In the Bluetooth Address enter the Bluetooth MAC address of the printer.
- 7. For Security select "Disabled."
- 8. Click Pair with peripheral to initiate pairing.

Toshiba Tec Printer B-SP2D-GH30-R Test Summary

Product Tested: Toshiba Tec Printer B-SP2D-GH30-R

Toshiba Part Number: B-SP2D-GH30-R

Peripheral Type: Bluetooth Printer

Test Cycle: Dec-2012

Honeywell software products used: VoiceCatalyst 1.1 / VoiceClient 3.8.2 / VoiceConsole 4.1

Honeywell hardware products used: Talkman A500 / Talkman T5

Test Status: Passes all

Tests Performed - Bluetooth Printer Scenarios:

• Pairing Bluetooth headset, scanner, and Toshiba printer with Talkman A500 as initiator: Tests basic pairing scenarios.

- Device name as a "number" does not affect the ability of the device under test.
- Device name as a "single digit" does not affect the ability of the device under test.
- · Device name as "Very Long Name" does not affect the ability of the device under test.
- Device name as "Accented and wide characters" does not affect the ability of the device under test.
- · Verify that use of Host name as "Standard text" does not affect the ability of the device under test.
- Verify that the use of the host name as incorrect "Octet values" does not crash the device under test.
- Sleep/On state change: Tests the ability to place the device into SLEEP and ON states while scanning and printing without affecting scanning and printing functionality.
 - Printer association is maintained through device shutdown.
 - Printer association is maintained through a task load.
 - Printer association is NOT maintained through a device profile load.
 - Printer association is maintained through device timeout shutdown.
 - Proper printer status appears in VoiceConsole's interface once an association is attempted.
- Operator state change: Tests the ability to change an operator while scanning and printing without affecting scanning and printing functionality.
 - 1. Begin scanning and printing operations. While scanning and printing, change operator via button menu selection (i.e. Operator and Plus/Minus buttons).
 - 2. Following operator load, continue to execute several iterations of the Scan and Print task.
 - 3. Reiterate step 2 at least two times.
- Out of Range device test: Tests that scanning and printing can be done out of Wi-Fi range and that ODRs are successfully transferred once back in range.
 - Ability to queue printer ODRs while out of AP range.
 - Ability to queue printer ODRs while out of range of the printer under test.
 - Ability to queue printer ODRs while out of AP range, power off a device, and then come back into network range and print the queued ODRs.
 - Ability to queue printer ODRs while out of printer range, power off a device, and then come back into printer range and print the queued ODRs.
 - Ability to induce the "Pending" and "Assigned" printer association status and view the status in VoiceConsole.
- Device Re-Pairing after Power-off and State Change: Tests that the device and Bluetooth printer re-pair after they are powered on.
 - 1. Pair a Bluetooth printer to a Talkman A500/T5.
 - 2. Execute the Scan and Print task, two iterations.
 - **3.** Power off all devices.
 - 4. Power on all devices.
 - 5. Execute the Scan and Print task, two iterations.
 - 6. Repeat steps 3-5 except pull the battery to power off the device.
 - 7. Repeat steps 3-5 except only power off the Bluetooth peripherals DO NOT power off the terminal/device.

Scenarios covered:

- A printer association can be created with the device in a variety of states.
- A printer association is maintained through device shutdown.
- A printer association is maintained through a task load.
- A printer association is NOT maintained through a device profile load.
- A printer association is maintained throiugh device timeout shutdown.

- Device in Charger: Tests that the device can be put in the charger and after it is removed Bluetooth Toshiba printer and Bluetooth peripherals will reconnect with "Restart Task in Charger= Enabled."
 - 1. Pair a Bluetooth Printer to a Talkman A500.
 - 2. Execute Scan and Print task, two iterations.
 - 3. Place the device in the charger.
 - 4. Wait until the device LED is blinking fast green, and then remove the device from the charger.
 - **5.** All Bluetooth peripherals should reconnect, and you should be able to hear the device through the SRX headset.
 - 6. Execute the Scan and Print task, two iterations.
- Pairing various Bluetooth peripherals: Tests that Bluetooth peripherals like SRX headsets and scanners can be paired with a Talkman A500 device along with Toshiba Bluetooth printer.
 - 1. Pair the Bluetooth Printer to a Talkman A500/T5.
 - 2. Pair an SRX headset through VoiceConsole/Manual.
 - 3. Pair a Bluetooth scanner as acceptor/initiator through VoiceConsole.
 - 4. Execute the Scan and Print task, two iterations.
 - **5.** Place the device in the charger.
 - 6. Wait till the device LED is blinking fast green and then remove the device from the charger.
 - 7. All Bluetooth peripherals should reconnect, and you should be able to hear the device through the SRX headset.
 - 8. Execute the Scan and Print task, two iterations.

Scenarios covered:

- Pair a Bluetooth scanner to A500 to which a Bluetooth printer is associated.
- Pair an SRX headset and a Bluetooth scanner to A500 that is associated to a Bluetooth printer.
- Printer switching: Tests that a different Bluetooth printer can be switched with the Toshiba Bluetooth printer and printing functionality is not broken with a Talkman A500/T5.
 - 1. Pair a Toshiba Bluetooth printer to a Talkman A500/T5 along with a Bluetooth scanner.
 - 2. Execute two iterations of the Scan and Print task.
 - 3. Pair a different Bluetooth Printer with a Talkman A500/T5.
 - 4. Execute two iterations of the Scan and Print task.
 - 5. Re-pair the Toshiba printer and run the Scan and Print task.

Tests Performed - Stress Scenarios:

- Test that scanning and printing can be done out of range and that ODRs are successfully transferred once back in range.
- Test is to verify that scanning and printing can be done while out of range.
- Test that a Bluetooth scanner and printer will re-pair with the device after being taken out of Bluetooth range of the device and then brought back.
- Test validates the ability to change from one paired Bluetooth scanner to another and perform normal operations.
- Device re-pairing after power off

Notes

Sometimes the printer may go into sleep mode. Pressing the power key for few seconds and the queued ODRs will be transferred and printed. Specific to the Talkman T5.

Zebra QL 320 Plus and 420-Series Mobile Printers





Figure 94: Zebra QL 420



Figure 95: Zebra QL 420 Plus

Figure 93: Zebra QL 320 Plus

- Verify support for your device in the release notes for your version of Vocollect Voice software or contact your Honeywell sales representative.
- · For detailed specifications for this product, visit Zebra's website.

Pairing with Zebra QL Series Printers

For Bluetooth pairing:

- In VoiceConsole, find the device and use the appropriate action link to pair it to a peripheral.
- See VoiceConsole Help for detailed instructions on pairing devices.
- Create the pairing with the Zebra[®] QL^{M} Series printer.

Zypad Ring Scanner



Figure 96: Zypad Ring Scanner

- The laser ring scanner supports 1D bar codes.
- The Zypad Ring scanner was only available in a USB configuration (part number WAC-0014-00) and could not be configured to work with the Talkman, therefore it was not tested. Noted April 2013.
Appendix D

Inline Adapter Cables: Talkman and Handheld Devices

A device-specific inline adapter training cable, also referred to as a "Y" or splitter cable, must be used with third-party handheld devices in order to connect both a Vocollect headset and listening system to the device.

Inline adapter training cables must only be used with listening systems approved by Honeywell.



Figure 98: Training Cable (TR-603-102) for Talkman, Wired Scanner, and Listening Kit

Figure 97: Training Cable (AD-300-1) for Handheld Device, Headset and Listening Kit

Figure 99: Honeywell LXE MX7 Headset Cable



Figure 100: Honeywell LXE HX2 Training Cable



Figure 101: Honeywell LXE HX2 Headset Cable



Figure 102: Motorola WT4090 Headset Cable

Connecting an Inline Adapter Cable to a Handheld Device

- 1. Connect your Vocollect SR-Series headset's connector to the matching end of the adapter cable.
- 2. Connect the other end of the adapter cable to the appropriate port on your handheld device.

Connecting Inline Adapter Training Cables

- 1. Connect your Vocollect SR-Series headset's connector to the matching end of the training adapter cable.
- 2. Connect the 3.5 mm jack on the training cable to the input jack on your listening device.
- 3. Connect the other end of the training cable to the appropriate port on your handheld device.



Figure 103: Typical Training Cable Setup

Part Numbers: Bar Code Readers and Other Devices

Part Numbers for ordering bar code readers and bar code reader accessories

Device or Accessory	Vocollect Part Number
Symbol LS3408-FZ20005 Bar Code Reader	BC-610-1
Extended Range Scanner (Symbol LS3408-ER2005)	BC-610-2
Honeywell (Metrologic) IS4225 Glove Scanner	BC-609-1
Replacement glove for Honeywell (Metrologic) IS4225	BC-609-101
Symbol LS4208 Bar Code Gun	BC-610-3
Cable for BC-610-x Symbol Bar Code Gun (58" (1.5m coiled, RJ45 connector. Male connector pins, left to right: pin 2 (5v), pin 3 (Ground), pin 4 (Rx))	BC-610-101
Bluetooth Scanning Kit (Honeywell MS 9535BT Scanner, charging cradle, T2x Bluetooth Adapter, and carrying pouch)	BC-611-1
Honeywell (Metrologic) MS9535 Voyager BT scanner & charger	BC-611-102
T2x Bluetooth Serial Adapter and carrying pouch	BC-611-105
Carrying pouch for T2x Bluetooth Serial Adapter	BC-611-103
Belt holster for gun scanners	BC-604-204
Bar Code Serial Interface Cable (48" (1.2m) straight cable unterminated* for connecting a scanner to a device)	BC-606-1
RJ11 Connection Cable (48" (1.2m) straight cable with RJ11 connector. Male connector pins, left to right: pin 2 (Tx), pin 3 (Rx), pin 4 (Ground))	BC-606-2
Coiled Cable (48" (1.2m) coiled cable unterminated*)	BC-606-3
Coiled Cable (79" (2m) coiled cable unterminated*)	BC-606-6
Cable, Zebra QL series Printer (36" (0.9m))	BC-606-7
Barcode Scanner, Bluetooth [™] Ring (Honeywell LXE 8652) Kit (Ring scanner, battery, 2 wrist straps)	BC-613-1
Replacement Scanner, without Bluetooth [™] module (Honeywell LXE 8652)	BC-613-101
Replacement Battery, Bluetooth [™] Ring Scanner (Honeywell LXE 8652)	BC-613-102
Replacement Large Hand Wrist Strap, Barcode Scanner, Bluetooth [™] Ring (Honeywell LXE 8652)	BC-613-103
Replacement Small Hand Wrist Strap, Barcode Scanner, Bluetooth [™] Ring (Honeywell LXE 8652)	BC-613-104
Replacement 8 Bay Battery Charger (Honeywell LXE 8652)	BC-613-105
Replacement Single Bay Battery Charger (Honeywell LXE 8652)	BC-613-106
Replacement Finger Strap (20 Pack), Barcode Scanner, Bluetooth [™] Ring (Honeywell LXE 8652)	BC-613-107
Replacement Finger Strap Assembly (20 Pack), Barcode Scanner, Bluetooth [™] Ring (Honeywell LXE 8652)	BC-613-108
US Power Cord Cable	BC-613-109
Euro Power Cord Cable	BC-613-110
British Power Cord Cable	BC-613-111
Pidion BM-170 Display	DSP-100

Device or Accessory	Vocollect Part Number
Cradle, Single Bay, for Bluebird Pidion Display BM-170D	DP-100-106
Snap-on Adapter, Vocollect, Intermec 70 Series	850-569-001
CK3 Cnap-on Audio Adpater for Vocollect headsets (AA22)	850-819-001
Taylor Made CK3 Voice/Speech Holster Kit (includes adjustable belt, adjustable belt strap, and adjustable leg strap - compatible with all snap-on audio adapters)	TM-CCK3-VP-KT
Taylor Made CK71 Voice/Speech Holster Kit (includes adjustable belt, adjustable belt strap, and adjustable leg strap - compatible with Intermec 70 Series snap-on audio adapters)	TM-CCK71-VP-KT
Taylor Made CN70 Voice/Speech Holster Kit (includes adjustable back snap web belt - compatible with Intermec 70 Series snap-on audio adapters)	TM-CCN70-VP-KT
26 oz. Belt Retractor	HH-S26
Intermec SR30 Cable to connect to Talkman devices (Intermec P/N 236-189-001)	_
Intermec SR61T Cable to connect to Talkman devices (Intermec P/N 236-190-001)	_
Visual Training Device with Cable	TD-601-1
V2 Visual Training Device with Cable	TD-602-1
Cable, Visual Training Device	TD-601-102
Cable, V2 Visual Training Device	TD-602-101

*Unterminated cables use wires red (5V), blue (Rx), grey (Tx) and black (ground). All other wires are not used.

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