

Software Release Notes

CN50 Series OS v2.10.00.0656

Windows Embedded Handheld 6.5

Overview

This is a maintenance release of the Windows Embedded Handheld 6.5 Operating System for the CN50 series handheld computers.

Supported Hardware

- All 256 MB RAM CN50 configurations.

Version numbers

	CN50 2.10.00.0656 Release	CN50 1.70.21.0038 Release	CN50 1.61.15.0063 Release	CN50 1.61.15.0054 Release
Microsoft WM	6.5.3.12.5	6.5.3.12	6.1.4.8	6.1.4.8
IBI	6.01.00.0046	6.00.40.3803	6.00.40.3803	6.00.40.3803
IDL	4.02.00.1858	4.02.00.1637	4.02.00.1637	4.02.00.1637
IVADCEDrivers	1.07.00.0375	N.A.	N.A.	N.A.
Printer_Configlet	2.20.00.0021	N.A.	N.A.	N.A.
IVAEventlog	5.70.00.0017	N.A.	N.A.	N.A.
Intermec_Settings	5.70.00.0080	N.A.	N.A.	N.A.
STCDecodes	2.01.08.0005	N.A.	N.A.	N.A.
IVAPAL	6.02.00.0336	N.A.	N.A.	N.A.
IVADeviceSettings	6.02.00.0243	N.A.	N.A.	N.A.
IVAVirtualWedge	6.02.00.0321	N.A.	N.A.	N.A.
IVADCE	6.03.00.0451	N.A.	N.A.	N.A.
SS_Client	4.03.11.0591	3.48.07.0669	3.48.07.0669	3.48.07.0669
INET	1.02.00.0003	1.02.00.0002	1.02.00.0002	1.02.00.0002
ITCFunkSupplcant	2.01.08.0392	2.01.06.0333	2.01.06.0333	2.01.06.0333
ITC80211Api	2.01.06.0333	N.A.	N.A.	N.A.
TUSB	2.01.112.0000	2.01.112.0000	2.01.112.0000	2.01.112.0000
IDL_LS	1.15.00.0153	N.A.	N.A.	N.A.
TCO_GUI	1.03.01.0282	N.A.	N.A.	N.A.
IVA	N.A.	5.06.72.3295	5.06.72.3295	5.06.72.3295

New Functionality

2.10.00.0656 Release

- Improved file system performance by having OneNand run in Sync mode
- Ability to upgrade OS via SD card flashing
- Ability to adjust microphone gain
- Route phone audio to SD50 dock for CN50
- Support for 5MP camera
- Power save mode for Wifi
- Battery voltage returned in GetSystemPowerStatusEx2 API
- In GPS Extra mode, GPS will now establish a connection and download assistance data if a connection is not established.
- Support for new Ethernet Multidock
- Added Simplified Chinese language in LP builds
- Ability to use SmartSystems to upgrade from WM6.1 to WM6.5
- Intermec supplicant is now the default
- Pressing scan button wakes the device from suspend.
- Ability to switch audio output device
- TCO dashboard
- Location services IDL
- CCX v4 certification
- Office Mobile removed from WWE builds.
- Added support for Rev. C USB transceiver.

1.70.21.0038

- Support for CN50B configuration and new camera module

1.70.21.0035

- Initial WEHH 6.5 release.

1.61.15.0063 Release

- Added support for Rev. C USB transceiver.
- Added support for new CN50 ethernet multidock.

1.61.15.0054 Release

- Support for the new "CN50B" configuration and new camera module.

1.61.15.0043 Release

- Added IFTP application
- Added support for the Single Dock (RNDIS Ethernet Adapter)
- Added support for the MSR snap-on
- Added Intermec Supplicant (disabled by default in this release)
- Added Intermec DHCP
- Added Intermec Settings applet
- Added printer configuration support
- Added Bluetooth Wireless Scanner Wizard and Enabler
- Added support for full keyboard remapping
- Added "press and hold" support for the orange key plane
- Added Korean language option in the LP build
- Added support for disabling camera and scanner imaging
- Changed to TFAT formatting of the Flash File Store

1.51 Release

- Added support for EA11 scanner
- Added GPS Xtra support
- Added Remote Desktop Mobile to the image

1.45 Release

- Added support for 256MB memory configurations

Defects Fixed In This Build

2.10.00.0656 Release

ID	Description Summary	Subsystem
ICM00005176	The Bluetooth headset connection is dropped when a voicemail message is received	Bluetooth
ICM00007141	Missed call notification LED does not remain lighted when device enters suspend.	Power Management
ICM00009568	Synchronization issue between speaker button and actual speaker phone mode when mute button is pressed.	Audio
ICM00010115	Transferring large files over a Bluetooth ActiveSync connection will sometimes fail and may freeze the device.	Bluetooth
ICM00010430	Picture taken date shows incorrect date.	Camera
ICM00015567	Virtual Wedge location moved - SSAPI calls to previous location fail	IVADCE

1.70.21.0038 Release

- Fix clean boot failure issue

1.70.21.0035 Release

None

1.61.15.0063 Release

None

1.61.15.0054 Release

- Fix clean boot failure issue
- CPR 110419-000124 – time/date EXIF information in pictures not correct
- Lock APPS partition
- Fixed "Battery Bounce" issue
- CPR 100831-000089 – Goodwrite failures on SD card

1.61.15.0043 Release

ID	Description Summary	Subsystem
ICM00004651	(CDMA-Sprint) The camera application would accept special characters in the filename, resulting in an error message when attempting to save the file.	Camera
ICM00008419	The camera resolution menu options did not display correctly in the Chinese Traditional language.	Camera
ICM00006510	After closing the camera application using the 'END' key, when you re-open the camera application it would display a blank screen.	Camera
ICM00006697	The camera would display a blank screen when opening the application again after closing it using the "END" key.	Camera
ICM00005157	Using the orange "<" and ">" keys to enable and disable torch mode caused the camera application to display the wrong torch state.	Camera
ICM00003278	Certain scanner settings for Trigger Mode and Aimer Activation may not backup correctly through SmartSystems.	Device Management

ID	Description Summary	Subsystem
ICM00008331	A SmartSystems Client Exception would occur after enrolling into a Microsoft System Center Mobile Device Manager server.	Device Management
ICM00008716	Querying the 802.11 Microsoft Security attributes while 802.11 is disabled by policy would crash the SmartSystems Client.	Device Management
ICM00008026	A Scan-To-Load file download would result in an error for large files.	Device Management
ICM00005515	The screen would not rotate when the backlight was off.	Display
ICM00009929	If the backlight turned off automatically while on external power, it would turn on when external power was removed and then stay on and not turn off automatically again while on battery.	Display
ICM00007490	On UMTS configurations, there was a black box in the middle of the screen after rotating the CN50 while playing video.	Display
ICM00007030	The CN50 was unable to reconnect to Ethernet after resuming from suspend mode in an Ethernet dock.	Ethernet
ICM00005211	The CN50 would sometimes fail to reconnect to Ethernet when the device is docked and undocked.	Ethernet
ICM00006289 ICM00006979	On CDMA configurations, reloading a GPS xtra.bin file would occasionally fail.	GPS
ICM00007140	In GPS settings, the Download Time and Valid Time options were not visible in landscape mode.	GPS
ICM00001577	COM port designations listed two IrDA ports.	IrDA
ICM00008130	On CDMA configurations, some applications were not able to uniquely identify CN50 devices when calling KernelIoControl with IOCTL_HAL_GET_DEVICEID.	Kernel
ICM00008039	On UMTS configurations, using the DateTime.Now property in the .NET Compact Framework would occasionally return decreasing millisecond time values.	Kernel
ICM00007942	The VK values were greater than 256 for the special keys like shift plane 1, shift plane 2, scan, backtab, etc. This arrangement prevented applications from generating these keys programmatically. The VK values were reassigned to be less than 256 for the special keys. These keys are also now reprogrammable with this release. In addition, the DeviceIoControl call with IOCTL_KPD_GET_INPUT_PLANE will now return the current keypad input plane: Normal, SP1 or SP2 (for numeric keypad). This IOCTL is necessary when using applications to operate the keypad programmatically.	Keyboard
ICM00007999	On CDMA configurations, the Scan button would not turn on the backlight when this option was enabled in the Control Panel.	Keyboard
ICM00007136	The 'Delay before first repeat' and 'Repeat rate' options for the Up/Down buttons were not working.	Keyboard
ICM00007028	It was not possible to unlock the device using the Qwerty keypad.	Keyboard
ICM00005445	After installing traditional Chinese from the LP builds, the options for traditional Chinese did not show up under the regional settings. In addition, it was not able to display pages using code page 950.	Language Support
ICM00010924	The CN50 would sometimes fail to resume or become unstable after suspending due to a critically low battery. Now the device is shutdown gracefully when the battery reaches a critically low level.	Power Management
ICM00005630	While suspended, the CN50 would occasionally become frozen and require a reboot to recover.	Power Management
ICM00006814	The CN50 would sometimes fail to resume from suspend while in a multi-dock.	Power Management

ID	Description Summary	Subsystem
ICM00006394	Some aimer modes were not supported for EA11 scanner.	Scanner
ICM00005214	Calling the ScannerTrigger(true) function again after scanning a barcode would not enable the imager unless ScannerTrigger(false) was called first.	Scanner
ICM00006300 ICM00007036	The trigger mode options for the EA11 scanner were updated to correctly match the capabilities of the device. The Continuous trigger mode option for the EA11 scanner was removed because this feature is not supported.	Scanner
ICM00010662	SD cards would sometimes fail to load or result in errors after resuming the device from suspend.	SD Card
ICM00006893	Calling the TAPI function lineSetEquipmentState with LINEEQUIPSTATE_RXONLY or LINEEQUIPSTATE_TXONLY parameters would fail and/or cause the CN50 to reboot.	TAPI
ICM00006719	The TAPI function phoneGetGain with the PHONEHOOKSWITCHDEV_HANDSET parameter would return invalid data when the gain was set to the maximum.	TAPI
ICM00006152	USB devices such as card readers and flash drives would not reattach after resuming the CN50.	USB
ICM00008008	On CDMA configurations, the speakerphone would not work after ending a call with speakerphone enabled.	WAN
ICM00007089	On UMTS configurations, when a SIM with an SPN was inserted into a CN50, the network operator name was displayed instead of the service provider name.	WAN
ICM00008443	On CDMA configurations, devices would occasionally reboot when roaming with data connections in low coverage.	WAN
ICM00009132	For UMTS configurations, network status notifications were not received after suspending the device while out of coverage and then changing towers before resuming again. This resulted in the display showing out of coverage, although the UMTS connection was working.	WAN
ICM00006267	For UMTS configurations, the phone application would not show connected when in a conference call.	WAN
ICM00008672	For UMTS configurations, when you attempt to make a call with the phone turned off the screen would show "dialing" after prompting to turn on the phone, but the phone was not actually dialing.	WAN
ICM00004694 ICM00005025	The Wi-Fi radio would sometimes become disabled after many suspend/resume cycles.	Wi-Fi
ICM00005400 ICM00005473	For UMTS configurations, if the CN50 was suspended or shut down while in a powered Ethernet dock with a valid Wi-Fi connection, it would not re-attach to Wi-Fi when removed from the dock.	Wi-Fi
ICM00004787 ICM00007154	When using Microsoft Zero Config, wireless profiles would sometimes be lost when the device was away from coverage for an extended period of time. Enable the Intermec Supplcant on the device to resolve this issue.	Wi-Fi

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ID	Description Summary	Subsystem
ICM00004632	Occasionally the Bluetooth radio would turn off after a suspend/resume cycle.	Bluetooth

ICM00004651	(UMTS, CDMA-Verizon) The camera application would accept special characters in the filename, resulting in an error message when attempting to save the file.	Camera
ICM00006044	Several Microsoft DirectShow APIs were not working as expected for applications using still pictures.	Camera
ICM00005632 ICM00006049	Files and folders would occasionally be lost or corrupted when writing data to the internal FLASH or storage card.	File System
ICM00005215	When in a call, if you swap to another call while muted the device would unmute.	Phone
ICM00005542	In rare circumstances devices on power would overheat and fail.	Power Management
ICM00005143 ICM00005633 ICM00005372	Several TAPI function calls would fail to return after terminating a data connection.or resuming the system.	TAPI
ICM00003663 ICM00004320	USB thumb drives sometimes would not attach correctly.	USB

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ID	Description Summary	Subsystem
ICM00005542	Added protection logic to prevent 1900MHz PA failures	WAN

1.45 Release

None

1.40 Release

ID	Description Summary	Subsystem
ICM00003836	Occasionally the Data Collection components will not initialize on reboot. Another reboot is needed.	Data Collection
ICM00003462	The OS version in the registry does not reporting leading zeros in the version number. This may cause remote device management systems to read the version incorrectly.	Device Management
ICM00003675 ICM00003674	SmartSystems will display unavailable 802.11 Radio Bands.	Device Management
ICM00004299	Screen orientation will not persist through a reboot.	Display
ICM00003465	Voicemail count will display as zero after a reboot.	WAN
ICM00003673	There is a rare possibility for the device to automatically reboot when attempting to transmit data over a WAN connection in low coverage areas.	WAN
ICM00003468	Configuring WPA/PSK through MS Zero-Config will cause the passkey to be deleted after every reboot. Using SmartSystems to setup WPA/PSK will ensure the key is maintained through all reboots. (see ICM00003168)	Wi-Fi
ICM00003483 ICM00003676	Cannot set WEP or Pre-Shared key through SmartSystems. The profile can be setup through SmartSystems but the keys will have to be entered manually on the terminal. This occurs the first time only. Subsequent reconnects or resumes will not require reentry of keys.	Wi-Fi
ICM00003670	Occasionally the Wi-Fi radio will disappear in Wireless Manager after a suspend/resume cycle. At this point the Wi-Fi radio will not be functional. Rebooting the terminal should recover the Wi-Fi radio.	Wi-Fi

Patches Included In This Release

Patches listed here are no longer required with this release.

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SR11052400_GSM_CN50UWM61_KOR	110407-000006 - CN50 display broken Korean SMS (when CN50 receives a Korean SMS)
SR11042925_CAM_CN50UWM61_ALL	CPR 110419-000124 - (Herbert Retail Ltd) Camera image exif date does not match file creation date. ICM00010988: Captiva Picture taken date is not matching
SR10110400_MSC_CN50UWM61_ALL	CPR 100831-000089 - When transferring large files using WMDC over Bluetooth using Win7 PC, the CN50 hangs and locks up.
SR10102700_GSM_CN50UWM61_ALL	CPR - 101024-000007 - Improves WWAN RSSI reporting to more accurate values.
SR10062400_AUD_CN50UWM61_USA	Audio recording is distorted in CN50.

1.70.21.0038 Release

None

1.70.21.0035 Release

None

1.61.15.0063 Release

None

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SR11030300_CDMA_CN50CWM61_ALL	Locking the apps partition on CDMA Sprint Devices
SR11071200_CDMA_CN50CWM61_ALL	Locking the apps partition on CDMA Verizon Devices

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SR10022200_CAB_CN50WM61_ALL SR10021700_INET_CN50WM61_ALL SR10051900_INET_CN50WM61_ALL SR10021700_DHCP_CN50WM61_ALL SR10021700_802A_CN50WM61_ALL SR10021700_FUNK_CN50WM61_ALL	W-Fi issues (Intermec Supplicant/Inet/DHCP)
SR09102800_KEY_CN50WM61_ALL	Scan button does not resume backlight
SR10060900_KEY_CN50UWM61_ALL	Keyboard issues
SR10011803_MSC_CN50WM61_ALL SR09102301_MSC_CN50WM61_ALL SR09081200_CAM_CN50WM61_ALL	Camera/DirectShow issues
SR10061600_CDMA_CN50CWM61_ALL SR10081800_CDMA_CN50CWM61_ALL	CDMA speaker phone issue
SR09092900_DCL_CN50WM61_ALL	DCEInit after warmboot
SR09072900_PRT_WM50_ALL	Printer configuration support
SR10080500_GPRS_CN50UWM61_ALL	UMTS – network status notifications not received
SR10070800_GSM_CN50UWM61_ALL	UMTS – SPN not displayed
SR10060400_USB_CN50WM61_ALL	USB issues
SR10082601_CDMA_CN50CWM61_ALL	Verizon reboot fix
SR10082600_CDMA_CN50CWM61_ALL	Sprint reboot fix

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SR09102801_KEY_CN50WM61_ALL	Keyboard
SR09092400_GSM_WM61_ALL	Missing emergency dialing numbers for New Zealand
SR10010600_DCL_CN50WM61_ALL	Backup settings shows "-blank-" in the preamble field.

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SR09092900_DCL_CN50WM61_ALL	DCEInit does not always launch after reboot
SR09081200_CAM_CN50WM61_ALL	Camera application

Additional Information

The CN50 series handheld computer manuals and downloads can be located at:
www.intermec.com | Products | Computers | Handheld Computers | CN50

Installation Instructions

CN50 devices may be updated using smart systems upgrade packages or Firmware Management Tool. Please check the Downloads page periodically for updates and instructions.

Device Management

SmartSystems

SmartSystems Console 4.0 or later is required for upgrading and configuring CN50 devices.

Application Support

Features Demo

The Features Demo application is available for download on the Intermec Software download site, as well as through the Scan-N-Go feature. Instructions for Scan-N-Go are located on the product page.

.NET Application Support

Microsoft recommends that .NET applications use the form property 'TopMost' set to True in order to ensure the applications remain maximized.

Windows Mobile Gesture Support

Gesturing is now supported by Windows Embedded Handheld. This means that applications using listbox, listview, treeview, webview, or tab controls will need to be aware of how the Windows GUI interprets the gestures.

Version History

Version	Date Available
2.10.00.0656 (WEHH 6.5)	05/2012
1.70.21.0038 (WEHH 6.5)	08/2011
1.70.21.0035 (WEHH 6.5)	01/2011
1.61.15.0063 (WM 6.1)	05/2012
1.16.15.0054 (WM 6.1)	08/2011
1.61.15.0043 (WM 6.1)	12/2010
1.51.76.0018 (CDMA – Sprint)	4/2010
1.51.53.0017 (CDMA – Verizon)	4/2010
1.51.10.0019 (UMTS)	4/2010
1.46.52.0008 (CDMA – Verizon)	3/2010
1.45.07.0005 (UMTS)	3/2010
1.40.51.0002 (CDMA – Verizon)	11/2009
1.40.06.0001 (UMTS)	11/2009
1.25.05.0007 (UMTS)	8/2009