

SmartSystems Foundation

Quick Start Guide

Contents

About SmartSystems Foundation.....	3
Supported Intermec Devices	4
What's New?.....	4
Install SmartSystems Foundation	5
Installation Requirements	5
Hardware Requirements.....	5
Software Requirements.....	5
UDP and TCP Port Definitions	6
Use SmartSystems Foundation	7
Understand the SmartSystems Console.....	7
Understand the Console Panels.....	7
Discover Devices	8
Update SmartSystems Software	9
Where to Find More Information.....	10

About SmartSystems Foundation

Intermec SmartSystems™ Foundation gives you a consistent, centralized platform so that you can easily manage and monitor your deployed Intermec devices such as mobile computers, printers, RFID hardware, and other peripheral and network devices.

After you have installed SmartSystems Foundation and added your devices to the SmartSystems console, you can:

- Monitor the status and health of your devices including the device properties, the applications that are installed, and viewing event and asset messages.
- Update and configure your devices.
- Create Provisioning Bundles so that you can ensure all of your devices have the same settings, applications, operating system, SSPB build, and SmartSystems client.
- Communicate with devices by sending a message in the form of a beep, text, sound, or printer commands.
- Manage your Intermec licenses.
- Manage certificates to protect your device when data is being transmitted over wireless and Ethernet networks.
- Create ScanNGo bar codes that contain network settings, and a set of software packages to allow configuration and provisioning of Intermec mobile computers.

Certain features are only available with:

- a SmartSystems Provisioning or Management client.
- devices using SmartSystems Client 4.01 or higher.

Supported Intermec Devices

SmartSystems Foundation works with most Intermec devices including the:

- 7xx, CN2B, CN30, CN40, CN50, CK30, CK31, CK32, CK61, CK70, CK71, CS40 mobile computers.
- 70, CN3, CN4, and CK3 series mobile computers.
- CV30, CV41, and CV61 vehicle-mount computers.
- PB21, PB22, PB31, PB32, PB50, PB51, PC23, PC43, PF2i, PF4i, PM4i, PM43, PR2, PR3 PX4i, and PX6i printers.
- IF2, IF30, IF61, and IP30 RFID readers.



Note: The CN2B and CN30 mobile computers can be managed with SmartSystems Foundation, but with reduced functionality.

Additionally, SmartSystems Foundation can also detect and manage various Cisco Access Points.

What's New?

SmartSystems 4.60 is a maintenance release and contains the following updates:

- Support for the CK3R and CK3X Mobile Computers.
- Support for the CV41 and CV61 Vehicle Mount Computers.
- End of support for the CV60 XP/XPe Vehicle Mount Computers.
- End of support for WWAN connections using the ScanNGo template.

Install SmartSystems Foundation

Before you install SmartSystems Foundation, you must verify that your hardware and software meet the installation requirements.

Once you have verified that you meet these requirements, you can download and install SmartSystems for free on the Intermec web site. For more information go to www.intermec.com/smartsystems.

Installation Requirements

This section explains the minimum hardware, software, and port requirements for SmartSystems.

Hardware Requirements

Your PC needs to have the following hardware installed:

- 2 GHz or faster processor
- 2 GB RAM

Software Requirements

Your PC needs to have the following software installed:

- One of the following operating systems:
 - Windows XP Professional with SP3
 - Windows 7 Professional, Enterprise, or Ultimate
 - Windows Server 2003 R2 with SP2
 - Windows Server 2008 Enterprise
 - Windows Server 2008 R2
- Microsoft SQL Server 2008 R2 Express with Advanced Services
- Microsoft Internet Explorer 6.01 SP1 or later
- Microsoft ActiveSync 4.5 or later (for Windows XP and Server)
- Microsoft Windows Mobile Device Center (for Windows 7)
- Microsoft .NET Framework 3.5 and 4 (full install)

- Windows Powershell 1.0
- Windows Installer 4.5



Note: Cisco Discovery is not supported on 64-bit operating systems.

UDP and TCP Port Definitions

The ports used in SmartSystems are all inbound ports. Use the following table to help you identify what UDP and TCP ports are used by SmartSystems.

UDP and TCP Port Descriptions


Port	Protocol	Description
UDP	161	Required for SNMP.
UDP	162	Required for the Trap port.
UDP	197	Required for the Upgrade Server.
UDP	1434	Required for SQL database discovery.
UDP	1758-1768	Required for Multicast communications for use with AutoDeploy.
UDP	8791	Required for the Upgrade Process.
UDP	8792	Required for the Upgrade Monitor Online Status.
UDP	49111	Required for discovery of devices when it is not associated with a known server.
UDP	52316	Required for the Remote Viewer.
TCP	1901	Required for the Remote Viewer.
TCP	49152-65535	Required for Remote Viewer.
TCP	8789	Required for HTTP.
TCP	27000-27009	Required for the License Server.
TCP	62241	Required for communication between the server and associated devices.

Use SmartSystems Foundation

SmartSystems Foundation has two main components:

- A server that is installed on your PC. The server functions as an engine and communication gateway. The server along with the SmartSystems console provides a visual representation of the SmartSystem's network structure.
- A SmartSystems client which is installed on all Intermec devices. The client allows you to use SmartSystems Foundation with your Intermec device.

Understand the SmartSystems Console

After you have installed SmartSystems Foundation, the SmartSystems Foundation icon () is placed on your Windows System tray.



SmartSystems Foundation Icon on Your Windows System Tray

To open the console

- Double-click the **SmartSystems Foundation** icon in the Windows System tray. The SmartSystems console appears.

To learn more about the SmartSystems console and its various panels, see the next section.

Understand the Console Panels

When the SmartSystems console is open you go SmartSystems console screen. The console has five panels to help manage your devices.



The SmartSystems Console Screen and the Five Panels

- The Console Tree panel shows you a list of folders that you have in the console.
- The Services panel shows you the status of the Core Messaging Server, License Manager Server, System Monitor Service, and the Universal Upgrade Server.
- The License Vault panel shows you a list of licenses that you have purchased and downloaded.
- The Device panel shows you a list of devices that are Discovered by the SmartSystems console. Selecting a folder in the Console Tree Panel, shows you a list of Discovered devices in the folder you just selected.
- The Peripherals panel shows you a list of devices that are connected as peripherals.
- The Vault panel shows you a list of software and provisioning bundles that you have created or downloaded.

Discover Devices

You need to Discover your Intermec devices before you can use SmartSystems Foundation to manage them.

When you first open the SmartSystems console, the SmartSystems server discovers all the SmartSystems-enabled devices connected to your local subnet. As the status of the device changes, it sends messages to the console to communicate its changed state.

You can also manually Discover devices by clicking on the **Discover** button located on the SmartSystems console.



The Discover Button Located On the SmartSystems Console.

Additionally, you can configure the SmartSystems console or device (with Intermec Settings) to enhance the discovery process.

- You can configure SmartSystems Foundation to broadcast across subnets or to specific IP addresses or IP address ranges.
- You can configure SmartSystems Foundation to send out signals at a pre-defined broadcast interval.
- You can configure an Intermec device to connect to a specific SmartSystems console.

Update SmartSystems Software

You can check for software updates to SmartSystems Foundation or Client at www.intermec.com/smartsystems or www.intermec.com/swdownloads.

If you already have SmartSystems installed on your PC, you can allow Intermec Update to automatically check at pre-defined intervals.



Note: If Automatic Checking is enabled, a pop-up screen appears to notify you when an update is available for download.

By default, the Software Manager checks for critical updates daily and important updates weekly. You have the option of changing the frequency or turning Automatic Checking off. For more information, see the online help.

Where to Find More Information

The SmartSystems Foundation web site at www.intermec.com/smartsystems has the most up-to-date information regarding SmartSystems Foundation.

If you need help on with using SmartSystems Foundation, you can open the online help in the SmartSystems console.

For technical support questions or to review technical information, visit the Intermec technical knowledge base (Knowledge Central) at intermec.custhelp.com.



Worldwide Headquarters
6001 36th Avenue West
Everett, Washington 98203
U.S.A.

tel 425.348.2600

fax 425.355.9551

www.intermec.com

© 2013 Intermec Technologies
Corporation. All rights reserved.

SmartSystems Foundation Quick Start Guide



P/N 930-231-003