

# How to check the SMC firmware version

## 1 Introduction

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This Application Note describes how to use Broadcast Monitor or ScanMaster™ Designer to check the SMC Firmware Version.

The following sections are included in this document:

[Introduction](#)

[Why check the SMC firmware version?](#)

[Software prerequisites](#)

[How to check SMC firmware version](#)

[Referenced Documents](#)

[Contact Us](#)

**Keywords:** ScanMaster™ Controller, SMC, SMC Software Development Kit, SMC SDK, ScanMaster™ Designer, firmware version, Broadcast Monitor

## 2 Why check the SMC firmware version?

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You would typically check the SMC firmware version for diagnostic purposes or to see if a firmware upgrade is needed.

## 3 Software prerequisites

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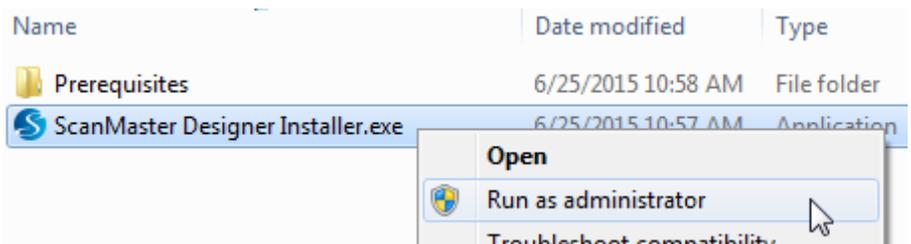
In order for you to check the SMC firmware version, Broadcast Monitor or ScanMaster™ Designer must be installed on the computer that is being used to manage the SMC.

**NOTE:** Broadcast Monitor is bundled with SMC SDK (Software Development Kit); in order to install Broadcast Monitor, you must install SMC SDK.

You can download SMC SDK, ScanMaster™ Designer, and the applicable manuals from the Cambridge Technology customer download website ([www.camtech.com/downloads/customers](http://www.camtech.com/downloads/customers)).

You must enter a password to download software and manuals from the customer download website. To obtain a password, contact Cambridge Technology technical support.

**NOTE:** If you are installing SMC SDK or ScanMaster™ Designer on a Windows 7 computer, you must run the Installer as an administrator. You can do this by right-clicking the Installer program and selecting **Run as administrator** from the context menu in the folder that contains the installation package.



**Figure 1 - The Run as administrator option**

The Installer programs for SMC SDK and ScanMaster™ Designer are **Setup.bat** and ScanMaster™ **Designer Installer.exe** respectively.

If you are installing SMC SDK or ScanMaster™ Designer on a Windows XP computer, you must be logged in to the computer as an administrator.

When Broadcast Monitor or ScanMaster™ Designer runs for the first time, Windows will ask for firewall permission. Make sure that you select both of the check boxes in the following screen, then left-click the **Allow access** button.

**Note:** All Cambridge Technology software requires the user to set firewall permission in order to access the software.

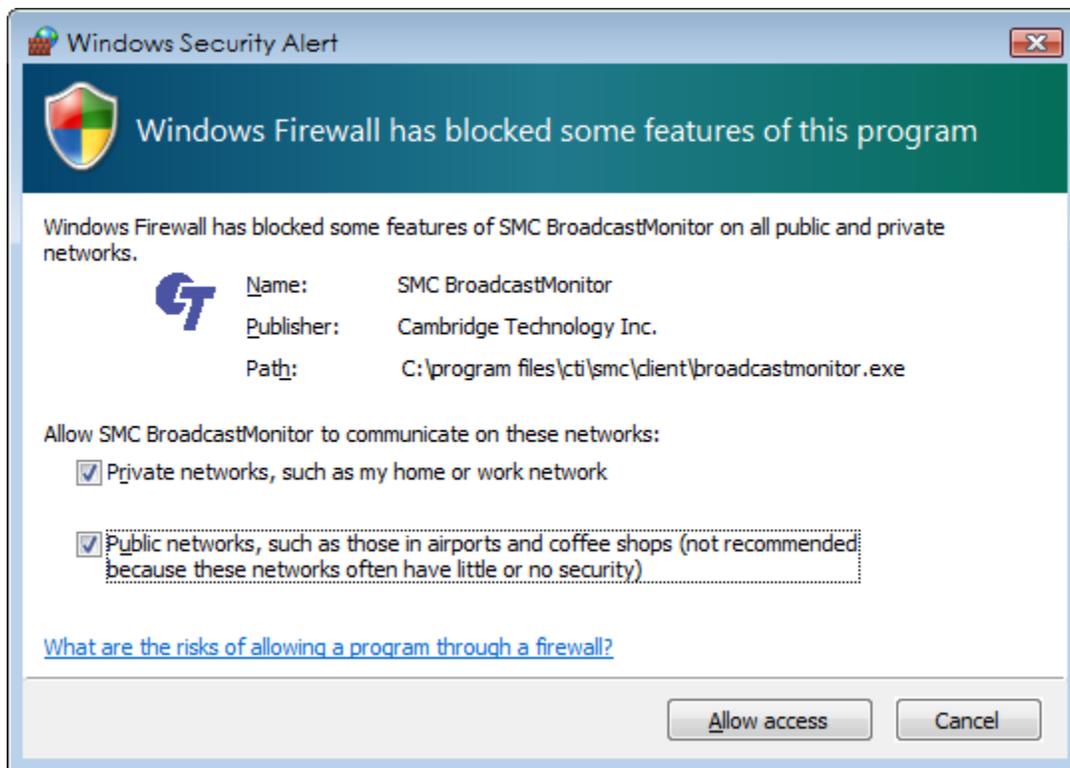


Figure 2 - Firewall option selection when running the Cambridge Technology software for the first time

### 3.1 Connecting the SMC to the computer via Ethernet cable

You can use either of the following methods to connect the SMC to the PC via an Ethernet cable:

- **Direct** – The SMC is directly linked to the PC through an Ethernet cable. Both the PC and the SMC must have static IP addresses.
- **Network** – The SMC is connected to a network hub in an intranet, and the PC is connected to the same intranet. If the intranet has a DHCP server, both the PC and the SMC should be set to dynamic IP address; otherwise both can be set to **Static** IP address.

The default factory setting of SMC board IP address is the Static address 192.168.100.20.

## 4 How to check the SMC firmware version

The following sections contain detailed information on how to check the SMC firmware version:

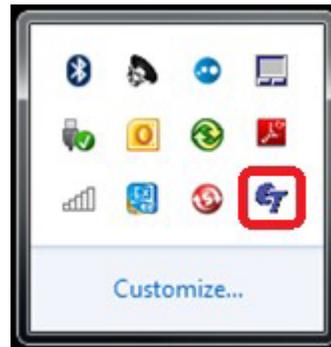
- "Using Broadcast Monitor to check the SMC firmware version" (below)
- "Using ScanMaster™ Designer to check the SMC firmware version" on page 5

### 4.1 Using Broadcast Monitor to check the SMC firmware version

Do the following to use Broadcast Monitor to check the SMC firmware version:

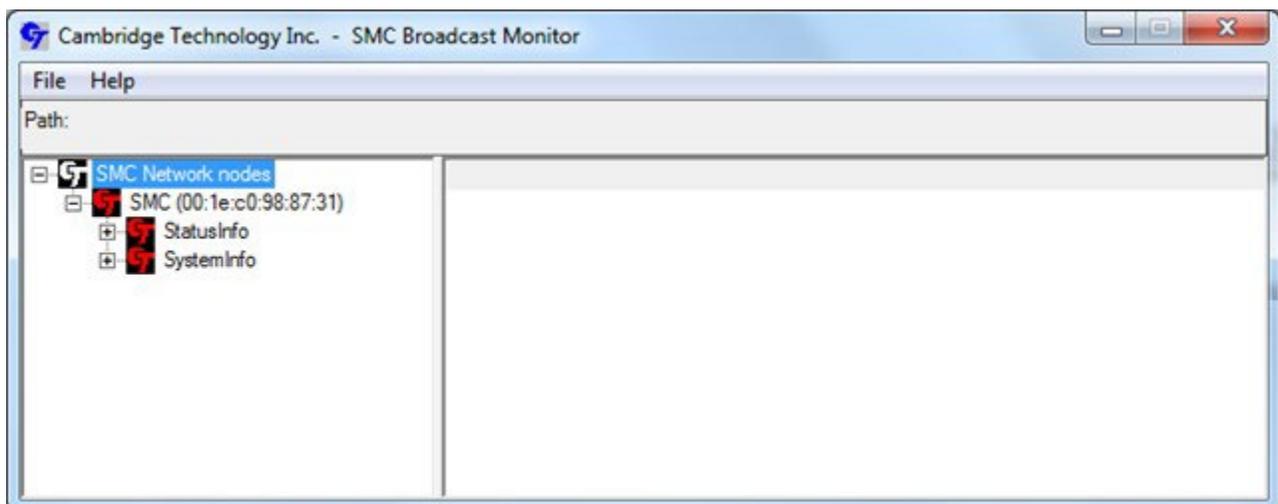
1. Make sure that the SMC is powered on, connected to the computer via an Ethernet cable, and has its IP address properly set as described in Section 3.1 ("Connecting the SMC to the computer via Ethernet cable") on page 2.
2. Launch Broadcast Monitor from the Windows start-up menu.

The utility window will open, and a symbol for "SMC Broadcast Monitor" will appear in the lower right-hand corner of the computer screen under hidden icons. Sometimes Broadcast Monitor is running in the background and the user needs to click the hidden icon to open it.



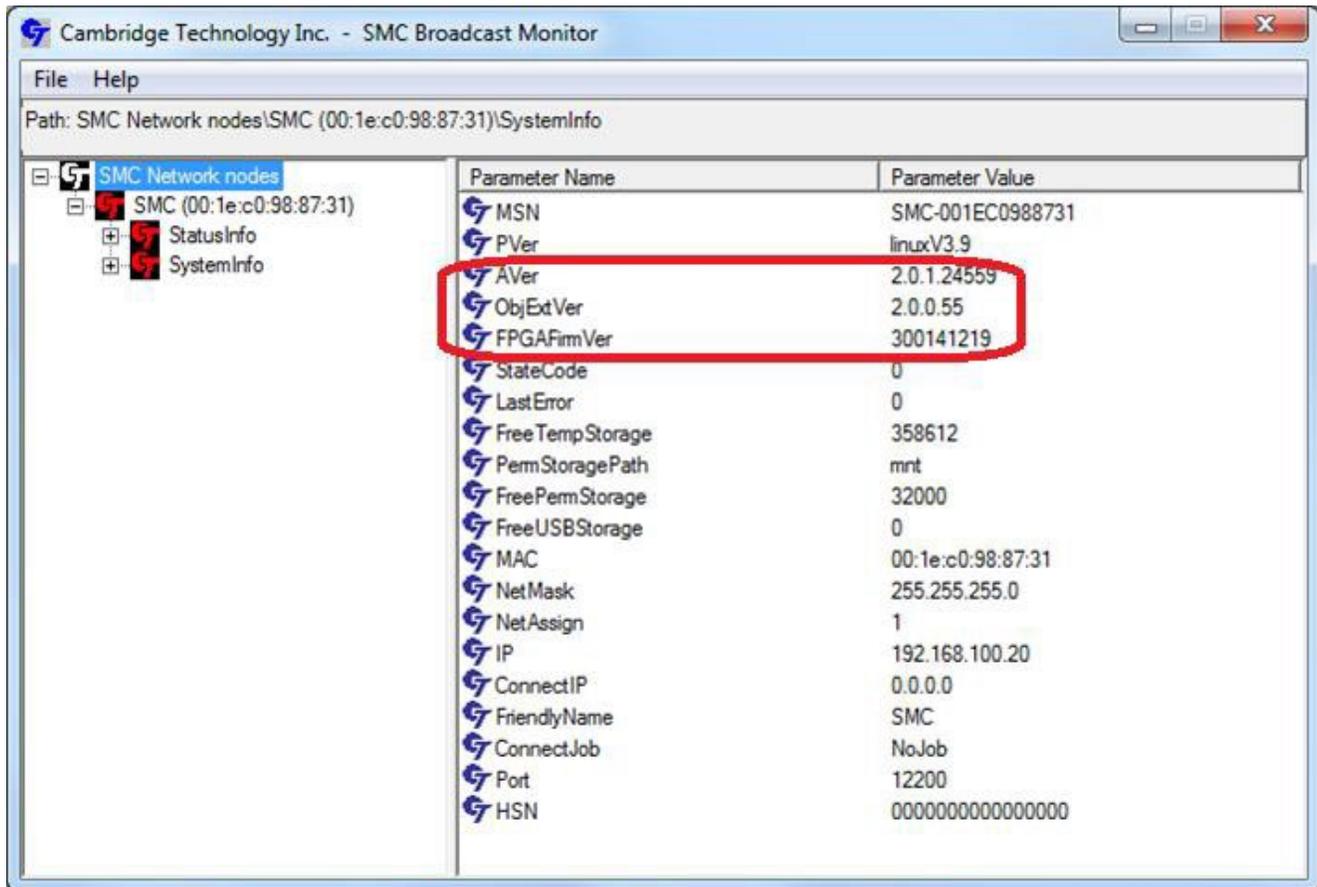
**Figure 3 - Hidden icon of SMC Broadcast Monitor**

Upon start-up, the "Broadcast Monitor Utility" will list the SMCs found on the Ethernet network as shown in the following figure.



**Figure 4 - SMC Broadcast Monitor with one SMC found**

3. To check the SMC firmware version, double-click **SystemInfo** entry on the left side of the **SMC Broadcast Monitor** window. The SMC System details will be displayed on the right side of the window as shown in the following figure.



**Figure 5 - SMC Broadcast Monitor shows SystemInfo**

The SMC firmware version information is displayed in the following three parameters of the **SMC Broadcast Monitor** window:

- **AVer** – Version of the SMC primary embedded server software
- **ObjExtVer** – Version of the embedded ScanScript Engine software
- **FPGAfirmVer** – Version of the FPGA Marking Engine firmware

You can find other system information in the **SMC Broadcast Monitor** window, including the platform version (**PVer**) and the IP address (**IP**).

## 4.2 Using ScanMaster™ Designer to check the SMC firmware version

Do the following to use ScanMaster™ Designer to check the SMC firmware version:

1. Make sure that the SMC is powered on, connected to the computer via an Ethernet cable, and has its IP address properly set as described in Section 3.1 ("Connecting the SMC to the computer via Ethernet cable") on page 2. Launch ScanMaster™ Designer with the **ScanMaster™ Designer** quick start icon on the Desktop or with the **ScanMaster™ Designer** start icon in the **CTI> ScanMaster™ Designer** path of the Windows **Start** menu.



Figure 6 - Quick Start icon

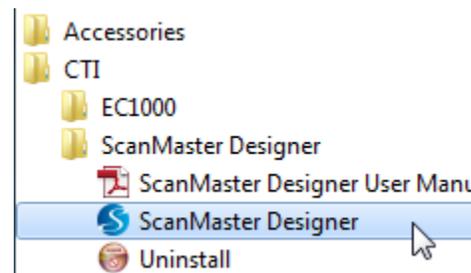


Figure 7 - Start icon in the Windows Start menu

3. The **Card Network** list in the ScanMaster™ Designer window will display all of the SMC targets found on the Ethernet network.

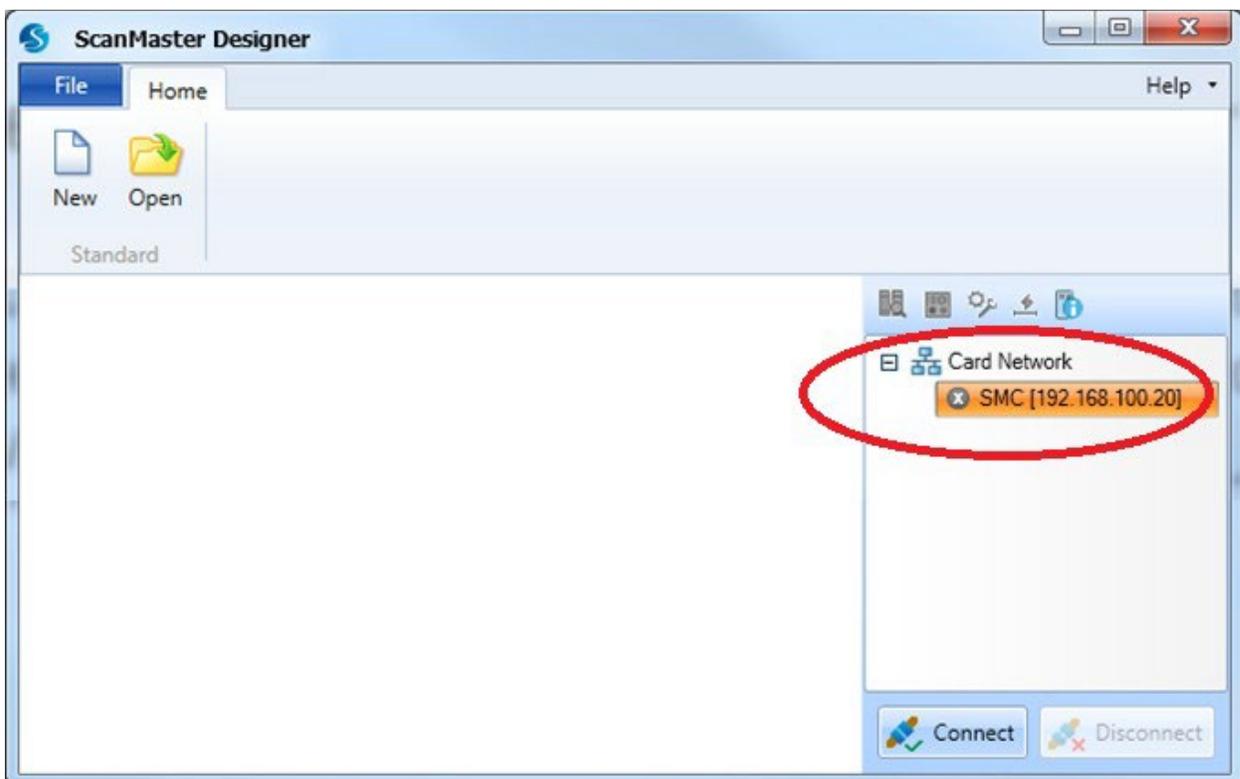
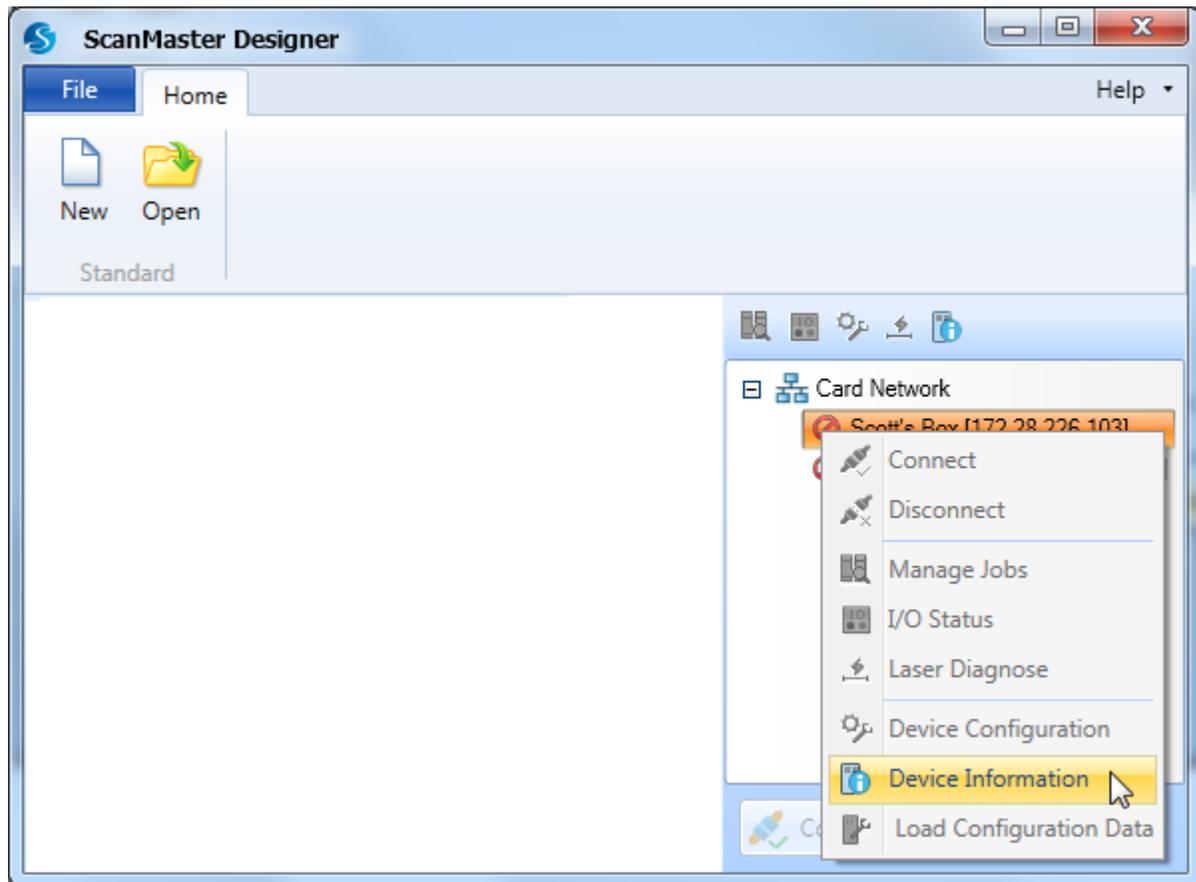


Figure 8 - SMC target shown in SMC target

4. Right-click on the SMC of interest and select **Device Information** from the context menu as shown in the following figure.

**Note:** It is NOT necessary to connect to the SMC target to select the **Device Information** option.



**Figure 9 - Selecting the Device Information option**

The **Device Information** window is displayed as shown in the figure on the right.

This window displays the version numbers of all of the SMC firmware, including the Server firmware, the Script Engine firmware, and the FPGA firmware.

The Device Information window also contains other items of information such as the IP address of the currently connected SMC (**Currently Connected IP**) and the serial number of the SMC (**Controller SN**).

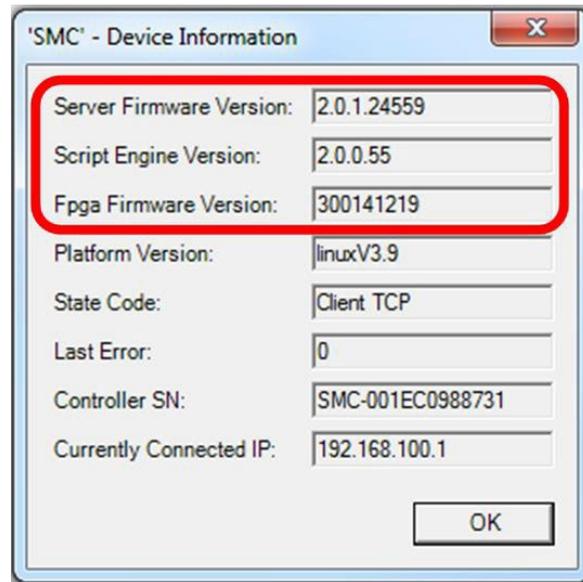


Figure 10 - The Device Information window

## 5 Referenced Documents

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This section lists the Application Notes and other documents that are referenced herein.

**NOTE:** Unless otherwise noted, the current version of the following Application Notes is the applicable one.

**Table 1 - Referenced Application Notes**

Lit. No.	Title
AN00003	ScanMaster™ Controller Quick Startup Guide