



1 Windows Embedded Standard 7 Development Quick Start Guide

1.1 What Do You Need?

1.1.1 Hardware

A development computer¹ that must fulfill the following hardware requirements:

- 1 GHz 32-bit or 64-bit processor
- 1 GB of system memory (32-bit), 2 GB of system memory (64-bit)
- 7 GB free hard drive space for complete installation
- DVD drive and/or USB 2.0 port

A target system² that must be one of the B&R automation devices released with Windows Embedded Standard 7:

- Automation PC 510
- Automation PC 511
- Automation PC 620 (with 945GME CPU board)
- Automation PC 810
- Automation PC 910
- Automation PC 2100
- Panel PC 700 (with 945GME CPU board)
- Panel PC 800
- Panel PC 900
- Panel PC 2100
- Power Panel 500

with:

- 1 GB RAM (32-bit) or 2 GB RAM (64-bit)
- 8 GB CF/HDD (32-bit) or 16 GB CF/HDD (64-bit)
- DVD drive or USB flash drive with 16 GB (for deploying the Windows Embedded Standard 7 image).

1.1.2 Software

The development computer must be running one of the following operating systems:

- Windows 7
- Windows Vista Service Pack 2 or higher
- Windows Server 2008 R2
- and must have the following software installed:
- Microsoft .NET Framework 2.0 or higher³
- Microsoft Core XML Services (MSXML) 6.0 or higher⁴
- Windows Embedded Standard 7 Toolkit⁵
- B&R Windows Embedded Standard 7 BSP⁶

¹ The **development computer** is the computer where you install the Windows Embedded Standard 7 Toolkit.

² The **target system** is the computer where you run Windows Embedded Standard 7.

³ You can download the **Microsoft .NET Framework** from the Microsoft Web site <http://www.microsoft.com>.

⁴ You can download the **Microsoft Core XML Services (MSXML)** from the Microsoft Web site <http://www.microsoft.com>.

⁵ You can download an evaluation version of **Windows Embedded Standard 7 SP1** (= Toolkit) from the Microsoft Web site <http://www.microsoft.com>.



- B&R Windows Embedded Standard 7 Missing Packages⁷

1.2 Start

1. Start the Image Configuration Editor (ICE)⁸ from the Windows Embedded Standard 7 Toolkit.
2. Open the respective answer file⁹ for your target system included in the B&R Windows Embedded Standard 7 BSP.
3. See the B&R Windows Embedded Standard 7 Development Guide¹⁰ for a description of the B&R specific components and settings and how to build and deploy your own image.

1.3 Next Steps

Modify the the Windows Embedded Standard 7 image for your needs.

1.4 Where to Get More Information

1.4.1 MSDN

For a detailed description of the Windows Embedded Standard 7 development process see:

Windows Embedded Standard 7

[http://msdn.microsoft.com/en-US/library/ff795587\(v=winembedded.0\).aspx](http://msdn.microsoft.com/en-US/library/ff795587(v=winembedded.0).aspx)

You will find following topics on this page:

- Welcome to Windows Embedded Standard 7
- Windows Embedded Standard 7 Basics
- Build Your First Windows Embedded Standard 7 Image
- Building Images
- Customizing Images
- Deploying Images
- Maintaining Images
- Windows Embedded Standard 7 Technical Reference
- Technical Articles

1.4.2 Trainings

You can also consult a **Windows Embedded Standard Training** from a Microsoft Training Partner. Search the Microsoft Website <http://www.microsoft.com> for *Windows Embedded Partner Search* or *Windows Embedded Classroom Training*.

⁶ The **B&R Windows Embedded Standard 7 BSP** contains all files specific for B&R automation devices and can be downloaded from the B&R Web site <http://www.br-automation.com>. For this download a customer login on B&R website is required.

⁷ The **B&R Windows Embedded Standard 7 Missing Packages** contain packages that are not available via WEDU updates and can be requested from B&R.

⁸ The **Image Configuration Editor (ICE)** is part of the Windows Embedded Standard 7 Toolkit and can be used to create or modify an answer file.

⁹ The **answer file** defines all the files, packages and drivers that the Windows Embedded Standard 7 image should contain. It can be used to create a bootable setup medium that installs the image on a target system. Answer files for B&R automation devices are included in the B&R Windows Embedded Standard 7 BSP.

¹⁰ You can download the **B&R Windows Embedded Standard 7 Development Guide** from the B&R Web site <http://www.br-automation.com>. For this download a customer login on B&R website is required.