



DATA DISPLAY GROUP

How To

Using Artista Driver WDDM under Windows7 embedded

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Table of Contents

1	Revision History.....	3
2	General Description	4
3	Prerequisites	4
3.1	Installation	4
4	How to create the Artista compatible Windows Embedded	5
5	News and Updates.....	10



1 Revision History

[illegible]

2 General Description

The Artista driver is a very versatile software, which can adapt to almost every newer Windows system, but embedded systems are quite complex and one needs to take special care in order to have a functional system using specific drivers.

Display drivers are quite deeply placed within an operating system such as Windows, so prerequisites have to be set in order to use the drivers to the full extent.

This document covers the implementation of the Artista driver within Windows 7 embedded (in this case Windows 7 Embedded Standard 7) using the Windows embedded toolkit.

Both Windows 7 and the toolkit are available from Microsoft. They also offer a trial version to gather experience on how to create specific custom templates to set up the embedded system to the needs of the customer in use and the platform.

3 Prerequisites

First of all, the needed software to create a custom Windows 7 embedded:

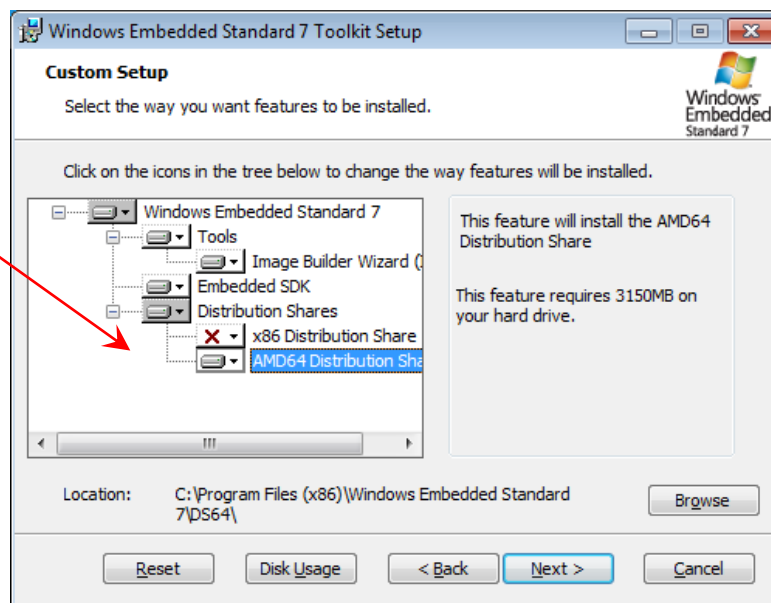
- Windows 7 embedded (Standard 7 64bit used for this documentation)
- Windows 7 embedded toolkit
- A running Windows system to create the answer file (template)

3.1 Installation

Start your PC and let the Windows OS there boot up, then insert the Windows 7 embedded toolkit DVD in your DVD driver and start the Autorun.

There, you go through the menus until you have to select the appropriate toolkit setting:

Deselect the x86 distribution
And select the AMD64
Distribution in order to
Produce a running template
for a 64bit embedded version



From there on, install the toolkit and when asked to insert the Windows 7 embedded DVD, do so. After that process, the toolkit is installed and the ICE program (Image creation editor) will be available.

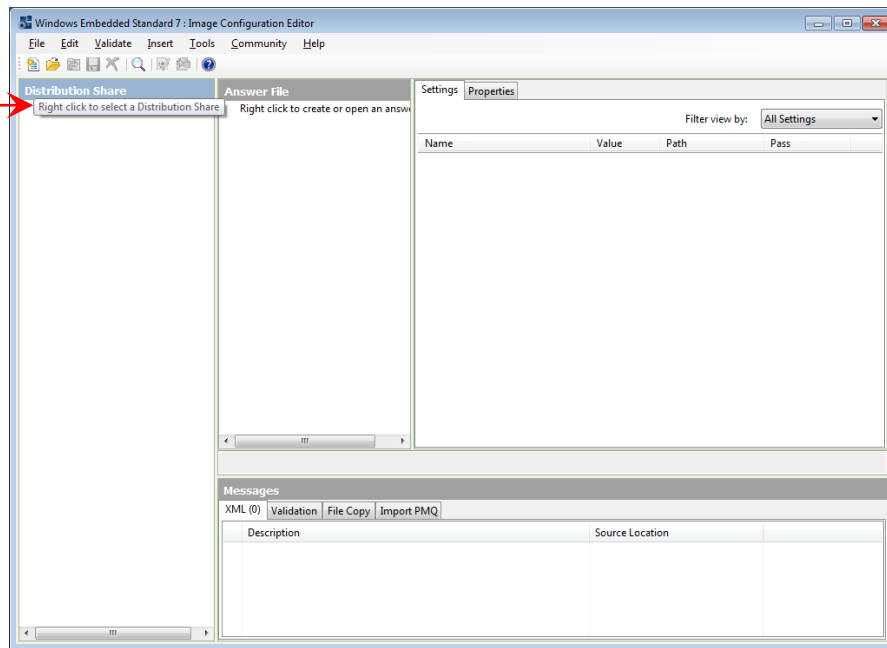


This will be the one, which will create the answer file (template to build a custom Windows Embedded) and which we will go through step-by-step in this How-To.

4 How to create the Artista compatible Windows Embedded

Start now after the Installation the ICE program:

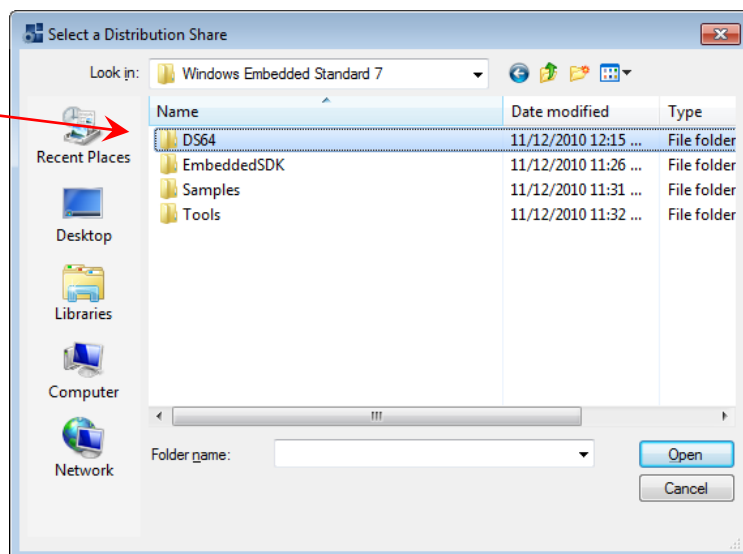
Choose now the Distribution share here



Select the distribution share from your toolkit installation usually at:

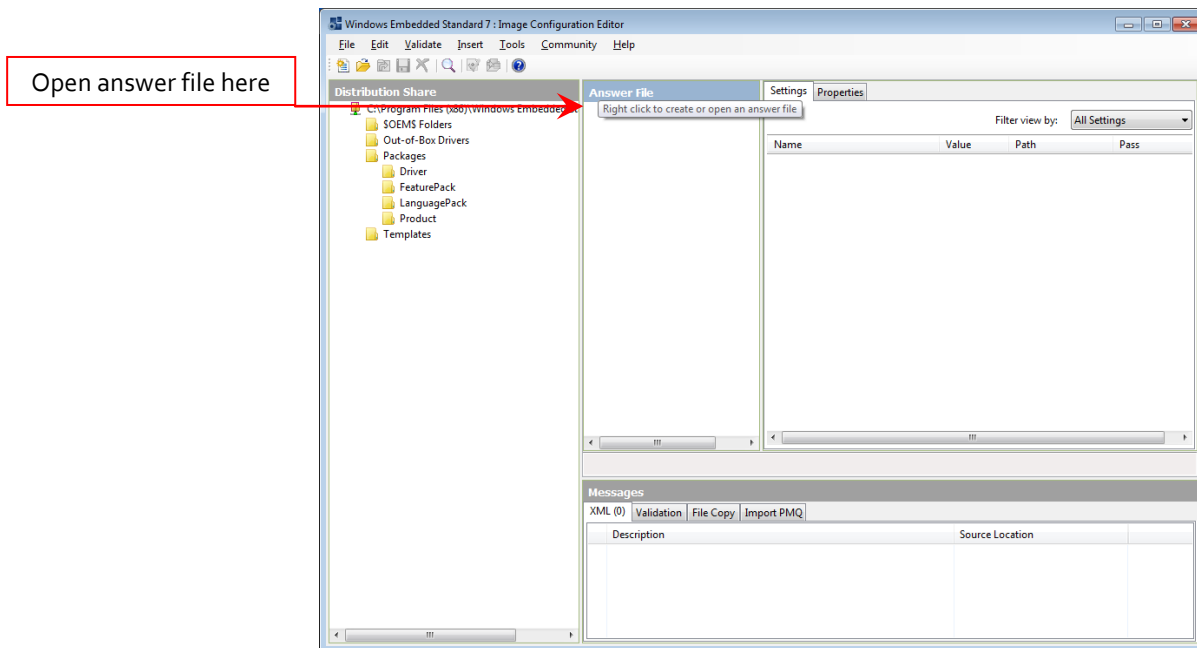
"\\Program Files(x86)\\Windows Embedded Toolkit 7\\Windows Embedded Standard 7\\DS64":

Open this folder

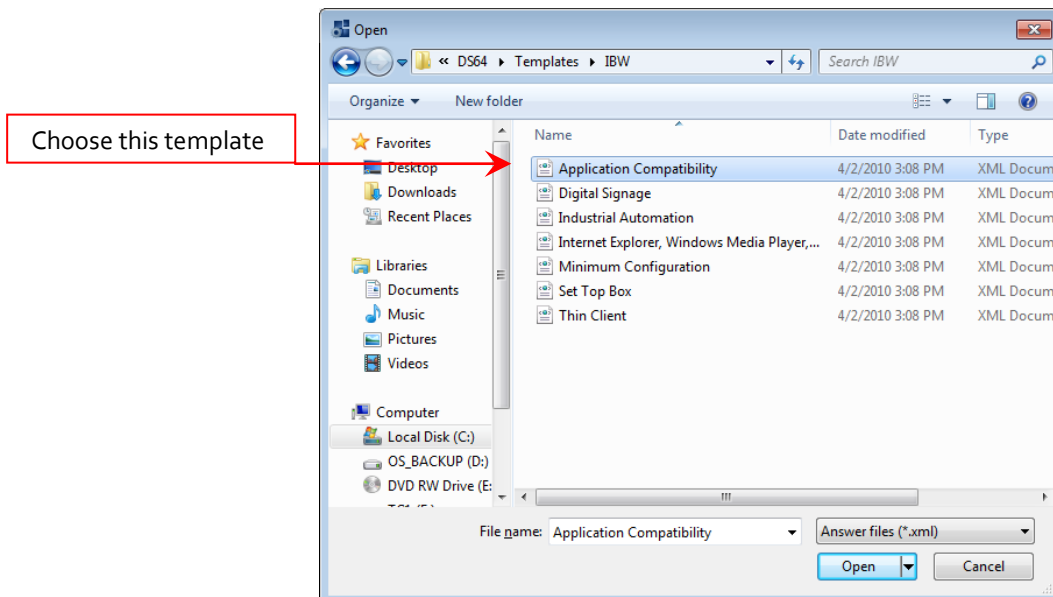




After that, open a standard template (Application Compatibility in this case):



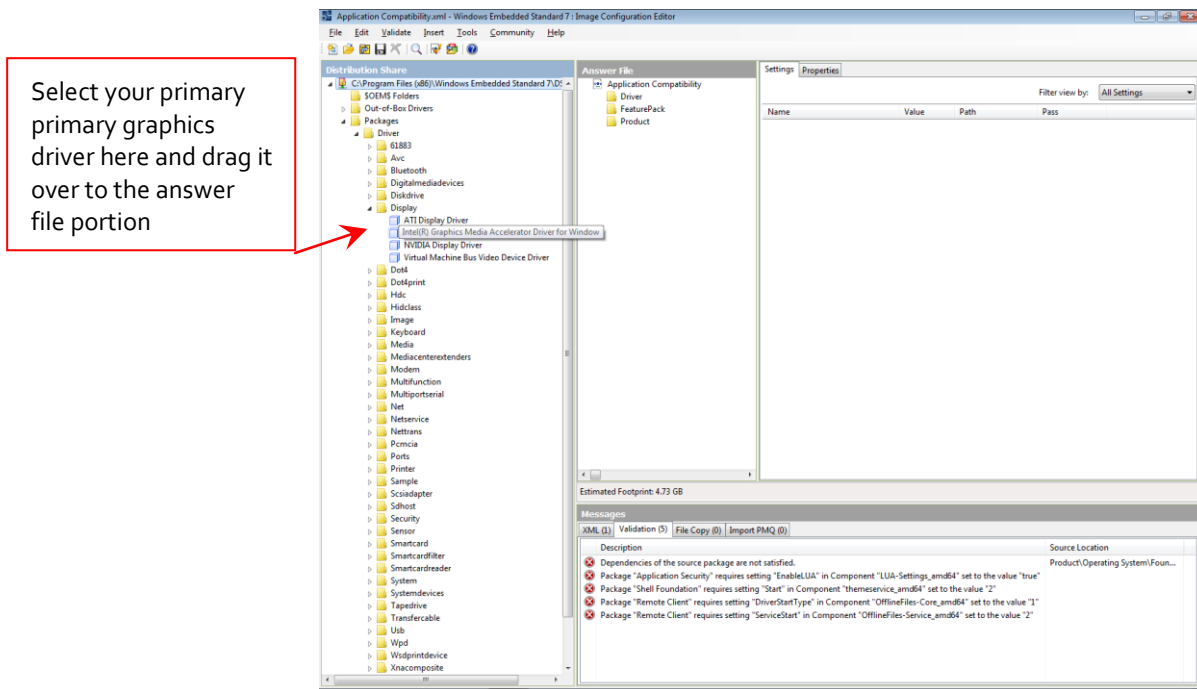
Right-click here to open the answer file (template):



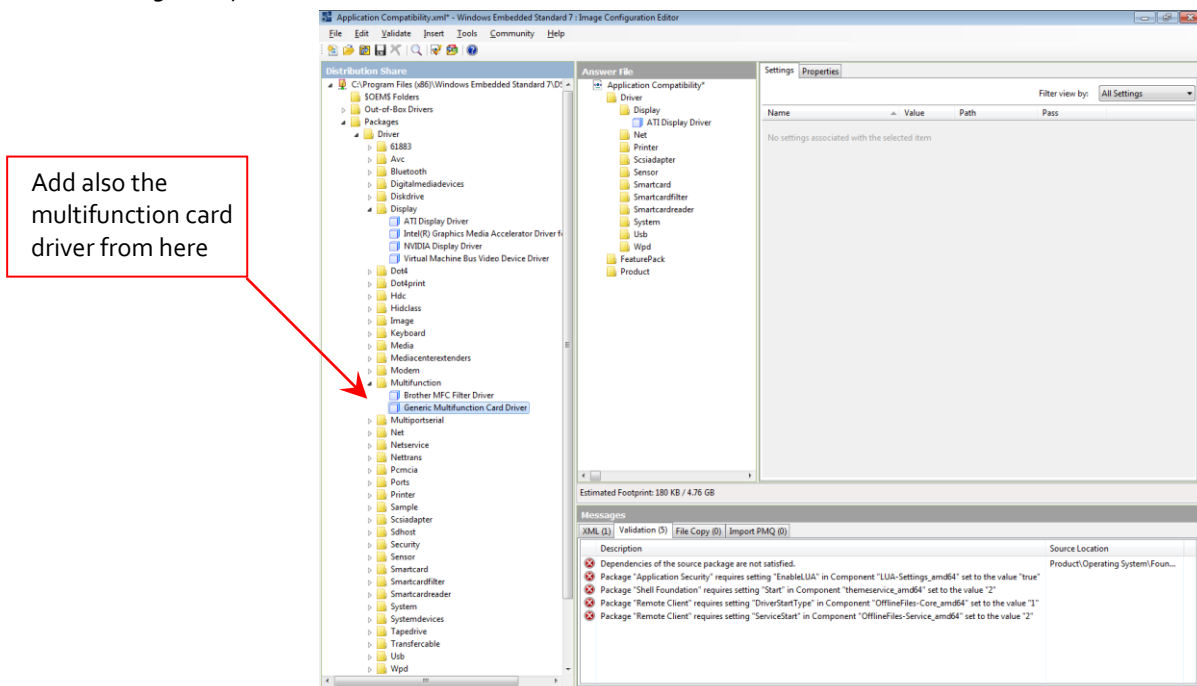
Now, this will open the standard template, which must now be set to the Artista specific needs and to your definition of your primary graphics adapter.
In order for this two things must be added to the answer file by simply drag&drop from the distribution framework into the answer file.



Customization has in this example been done by using the ATI driver, since our target machine had an ATI graphics card. This can be adjusted to your need, if the card differs (like Intel or NVidia):



After that comes the important driver for the Artista display extension driver. You need to add the generic multifunction adapter driver; if not, the extended desktop will NOT work on your target machine, since this is a dependency for the Artista driver. So, knowing that, please add the driver as seen below:



Now we got all needed parts, but before saving the new template (answer file) the dependencies must be satisfied. If not, the resulting system will NOT work.

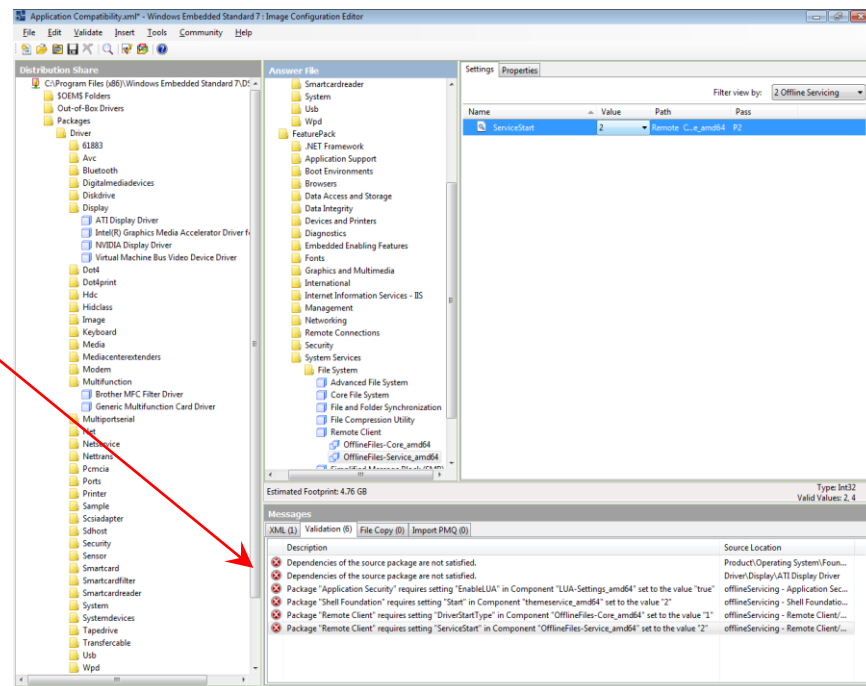
In order to satisfy the dependencies, please hit the F5 key while being in the window of the dependencies and solve each one by double-clicking the needed dependency.

Solve it there and then hit the F5 key to see the rest which has to be solved.

When everything is solved, then you can finally save your template:

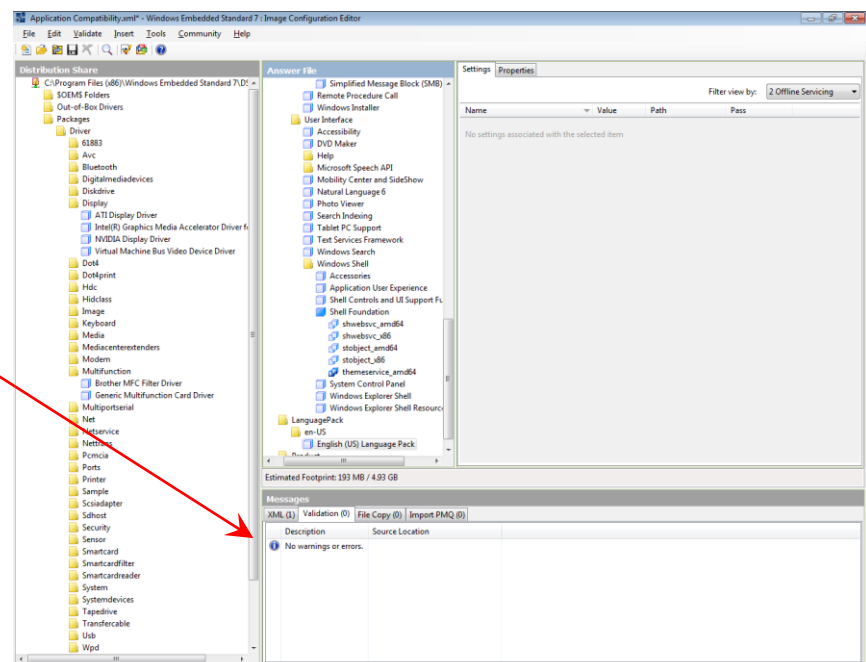
Solve all dependencies and hit the F5 key to see the changes

These must all be satisfied!



When it looks like this, then save your template on a USB-Stick or other media:

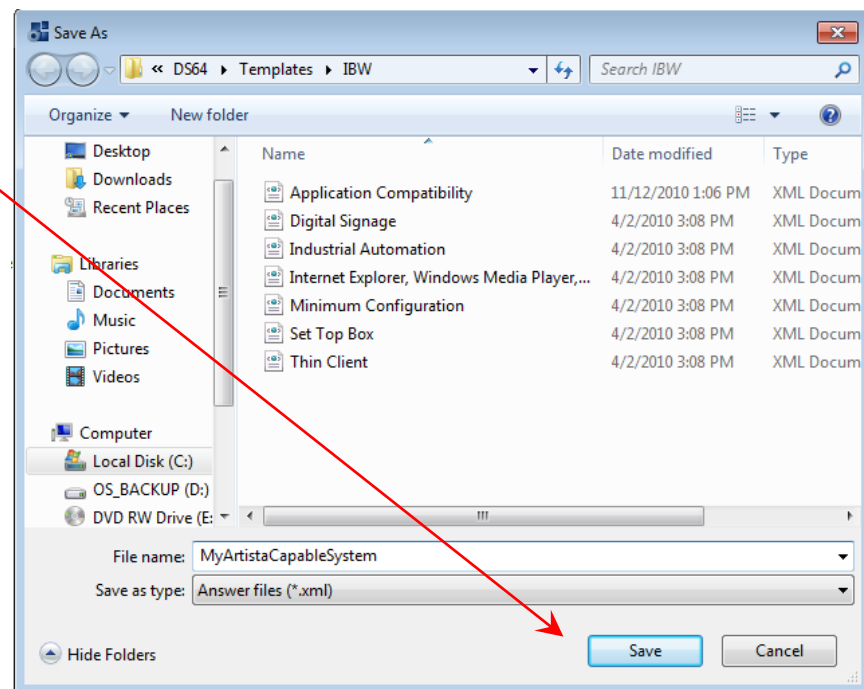
All solved, now you can save your answer file under a different name





Save now your template and use this answer file when asked during the installation of Windows 7 embedded.
The the Artista Driver will be fully functional under Windows 7 embedded.

Save your template
and use it for installation





5 News and Updates

The latest version of documents, drivers and software packages can be found at:

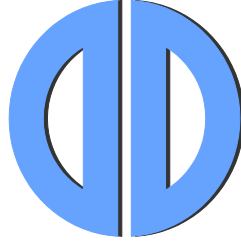
German: <http://www.datadisplay-group.de/support/downloads/>

English: <http://www.datadisplay-group.com/support/downloads/>



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