

## Introduction

DFI® is an authorized Microsoft Windows Embedded Partner. We possess an experienced and professional software team chartered to integrate and support Microsoft Windows® Operating Systems in embedded applications. To assist customers in the timely launching of products to market, we offer OS integration services for creating standard or custom OS images. DFI® is dedicated to saving customer's time and costs in developing competitive products for embedded applications. The DFI® OS service includes

- Android ARM base SOC Integration Services
- Windows® Embedded 8 Standard Integration Services
- Windows® Embedded Compact 7 Integration Services
- Windows® Embedded Standard 7 SP1 Integration Services
- Windows® Embedded CE 6.0 R3 Integration Services
- Windows® XP Embedded SP3 Integration Services

## Android ARM base SOC Integration Services

### ► Integrate Android image by request based on:

- DFI® hardware platforms
- Customer's proprietary device and driver integrated
- Selected Android functions
- Integrated Customer's applications

### ► Android Package Services Include:

- Standard Android image demonstration

### ► Features of the image:

- Software Components  
Integrate selected Android testing components, and added custom AP as a component into the image
- Configuration Files  
Provides the image source files as BSP for customers to modify
- Built-in Software Utilities  
Add software utilities into the image for customers to test the H/W such as WDT, Digital I/O, etc.

## Windows® Embedded 8 Standard Integration Services

### ► Integrate Windows® Embedded 8 image by request based on:

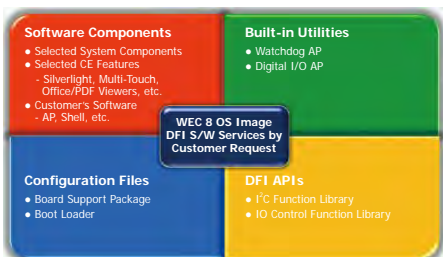
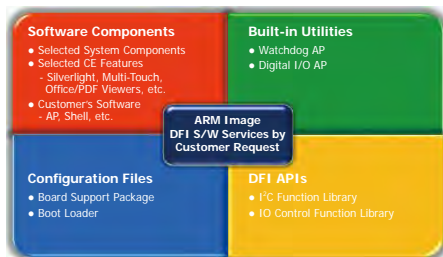
- DFI® hardware platforms
- Customer's proprietary device drivers
- Selected Windows® Embedded 8 functions
- Customer's applications

### ► Android Package Services Include:

- OS image customized for DFI® industrial boards or embedded systems according to configuration requirement
- Standard OS image demonstration
- Windows® XP Embedded license label

### ► Features of the image:

- Software Components  
Integrate selected Windows® XP Embedded default system components, special features and added custom AP or shell as a component into the image
- Configuration Files  
Provides the image source files as BSP for customers to modify
- Built-in Software Utilities  
Add software utilities into the image for customers to test the H/W such as WDT, Digital I/O, etc.
- DFI® APIs  
Customers can use DFI's APIs to control the H/W directly thus shortening their development time



## Windows® Embedded Compact 7 Integration Services

### ► Integrate Windows® Embedded Compact 7 image by request based on:

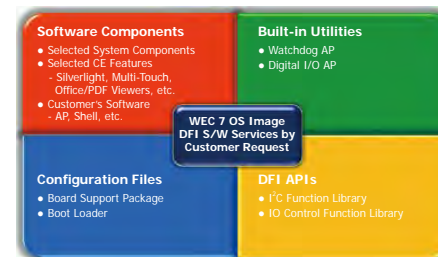
- DFI® hardware platforms
- Customer's proprietary device drivers
- Selected Windows® Embedded Compact 7 functions
- Customer's applications

### ► Windows® Embedded Compact 7 Package Services Include:

- OS image customized for DFI® industrial boards or embedded systems according to configuration requirements
- Standard OS image demonstration
- Windows® Embedded Compact 7 license label

### ► Features of the image:

- Software Components  
Integrate selected Windows® Embedded Compact 7 default system components, special features and added custom AP or shell as a component into the image
- Configuration Files  
Provides the image source files as BSP for customers to modify
- Built-in Software Utilities  
Add software utilities into the image for customers to test the H/W such as WDT, Digital I/O, etc.
- DFI® APIs  
Customers can use DFI's APIs to control the H/W directly thus shortening their development time



## Windows® Embedded Standard 7 SP1 Integration Services

### ► Integrate Windows® Embedded Standard 7 SP1 image by request based on:

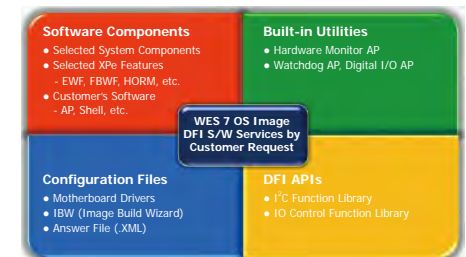
- DFI® hardware platforms
- Customer's proprietary device drivers
- Selected Windows® Embedded Standard 7 SP1 functions
- Customer's applications

### ► Windows® Embedded Standard 7 SP1 Package Services Include:

- OS image customized for DFI® industrial boards or embedded systems according to configuration requirement
- Standard OS image demonstration
- Windows® Embedded Standard 7 SP1 license label

### ► Features of the image:

- Software Components  
Integrate selected Windows® Embedded Standard 7 SP1 default system components, special features and added custom AP or shell as a component into the image
- Configuration Files  
Provides image source files such as H/W drivers, .answer file, for customers to modify
- Built-in Software Utilities  
Add software utilities into the image for customers to test the H/W such as WDT, Digital I/O, etc.
- DFI® APIs  
Customers can use DFI's APIs to control the H/W directly thus shortening their development time



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## Windows® Embedded CE 6.0 R3 Integration Services

### ► Integrate Windows® Embedded CE 6.0 R3 image by request based on:

- DFI® hardware platforms
- Customer's proprietary device drivers
- Selected Windows® Embedded CE 6.0 R3 functions
- Customer's applications

### ► Windows® CE Package Services Include:

- OS image customized for DFI® industrial boards or embedded systems according to configuration requirements
- Standard OS image demonstration
- Windows® Embedded CE license label

### ► Features of the image:

- Software Components  
Integrate selected CE default system components, special features and added custom AP or shell as a component into the image
- Configuration Files  
Provides the image source files as BSP for customers to modify
- Built-in Software Utilities  
Add software utilities into the image for customers to test the H/W such as WDT, Digital I/O, etc.
- DFI® APIs  
Customers can use DFI's APIs to control the H/W directly thus shortening their development time

## Windows® XP Embedded SP3 Integration Services

### ► Integrate Windows® XP Embedded SP3 image by request based on:

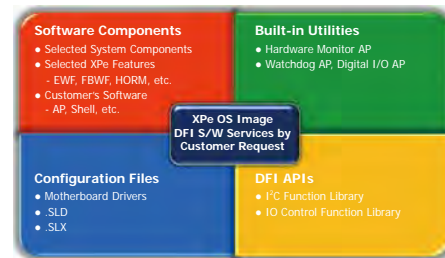
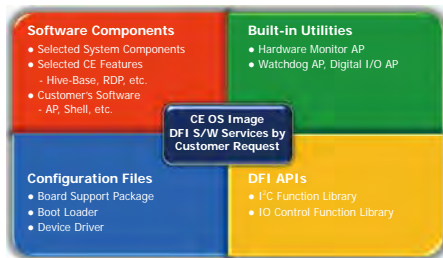
- DFI® hardware platforms
- Customer's proprietary device drivers
- Selected Windows® XP Embedded SP3 functions
- Customer's applications

### ► Windows® XP Embedded Package Services Include:

- OS image customized for DFI® industrial boards or embedded systems according to configuration requirement
- Standard OS image demonstration
- Windows® XP Embedded license label

### ► Features of the image:

- Software Components  
Integrate selected Windows® XP Embedded default system components, special features and added custom AP or shell as a component into the image
- Configuration Files  
Provides image source files such as H/W drivers, .sld, .slx, for customers to modify
- Built-in Software Utilities  
Add software utilities into the image for customers to test the H/W such as WDT, Digital I/O, etc.
- DFI® APIs  
Customers can use DFI's APIs to control the H/W directly thus shortening their development time



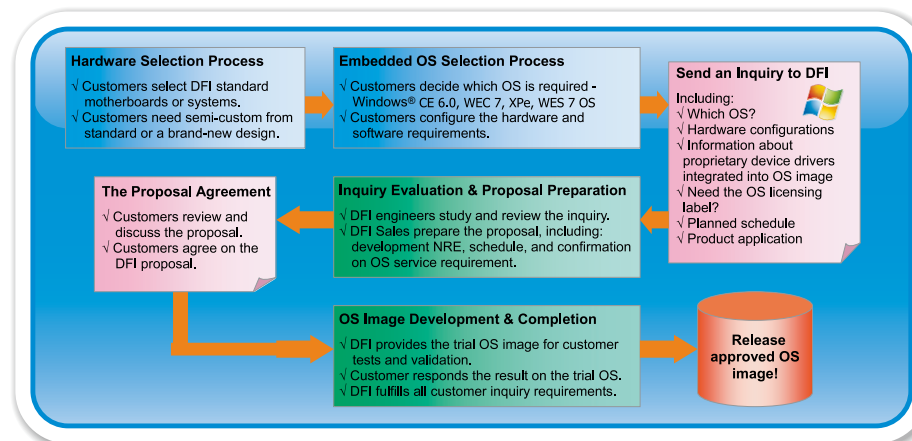
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## Standard OS Image Demonstration

In order to expedite a customer's request, DFI® offers standard OS images for industrial boards and embedded systems such as Windows® Embedded CE 6.0 R3, Windows Embedded Compact 7, Windows® XP Embedded SP3, and Windows Embedded Standard 7 SP1. With these available standard OS images, it allows customers to easily plan, configure, and bring their products to market in the least amount of time. The following two sections summarized the features and fundamental functions provided with standard OS images. After the standard OS image demonstration, customers can inquire about customized embedded OS services

## How to Request an Embedded OS Service



## Software Development Utilities

### ► Custom-built Application Programs

- Custom-built AP service for specified requirement that run in Windows® XP, Windows® XP Embedded or Windows® Embedded CE

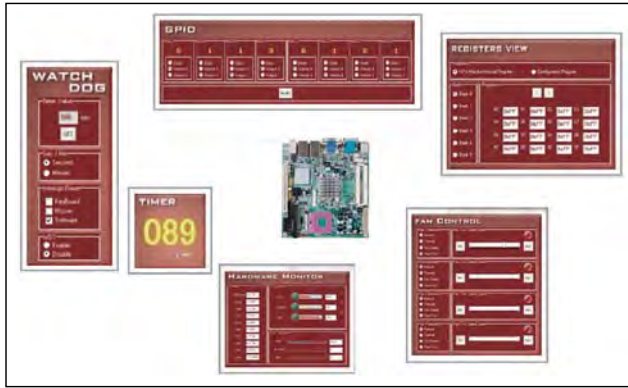
### ► Built-in Application Programs

- The built-in APs allow customers to immediately test and verify the device functions on the DFI motherboard

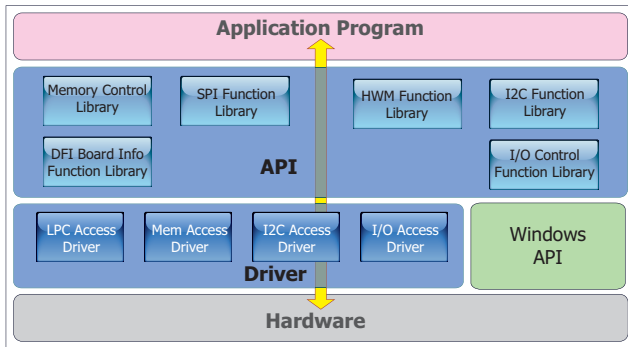
### ► DFI® APIs

- The DFI® Application Programming Interface (API) provides flexibility and easy-to-use functions for the customer's programmer or engineer
- This saves time that would normally be spent learning how to control the hardware devices on the DFI motherboard
- Using DFI® APIs, programmers and engineers can develop their own APs easier and faster

## Built-in Application Programs



## Architecture of DFI APIs



## Software Services

### MS OS and Embedded OS

- Supports Windows® XP Pro, Windows® XP Embedded, POSReady 2009, Windows® 7, WES 7, POSReady 7
- System Recovery Utility offers 3 options of recovering the system
- Graphics User Interfaces: FBWF, EWF and HORM

### Windows® Embedded CE

- Supports Windows® CE 5.0, Windows® Embedded CE 6.0 and Windows® Embedded Compact 7

### Linux SDK, ARM Platform

- Provides Linux SDK: includes system information, DIO, Watchdog and Hardware Monitor
- Supports ARM platform: Android (Linux Kernel and Android File System)

### API/AP, Android

- Supports Hardware Monitor, DIO, Watchdog, Dimming Control, I2C Bus, etc.

### BLDK, EC

- Supported OS: Linux Fedora 11, Meego 1.0 and Windows® CE 6.0
- EC (Embedded Controller) supports power sequence, fan control, GPIO control, Watchdog, etc.

### Built-in Utilities

- Provides a utility to test LAN, Audio, Hardware Monitor, DIO, Video, etc.

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