

Training

USB Driver Development



Agenda

1. Day

UB1

- Introduction
- USB Architecture
- USB Driver Stack

Pause

UB2

- USB Request Block
- USB Transfer Methoden
- USB Pipe Handling

Lunch

UB3

- Windows System Architecture
- Windows WDM Driver Architecture

Pause

UB4

- WDK Development Environment

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USB Driver Development



Agenda

2.Day

UB1

- Application <-> Driver Communication
- Application <-> Driver Data Transfer

Pause

UB2

- KERNEL MODE DRIVER Framework (KMDF)
- KMDF Development Environment

Lunch

UB3

- KMDF Objects

Pause

UB4

- KMDF I/O Modell
- KMDF USB Stack

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USB Driver Development



Agenda

3.Day

UB1

- KMDF USB Methods and Objects
- KMDF USB Descriptor

Pause

UB2

- KMDF USB Transfer

Lunch

UB3

- USER MODE DRIVER Framework (UMDF)
- UMDF Stack Architecture

Pause

UB4

- UMDF COM Interface
- UMDF COM Objects

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USB Driver Development



Agenda

4.Day

UB1

- UMDF DLL Entrypoints
- UMDF Development Environment

Pause

UB2

- UMDF I/O Modell
- UMDF USB Stack

Lunch

UB3

- UMDF USB Methoden and Objects
- UMDF USB Descriptor

Pause

UB4

- UMDF USB Transfer

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Agenda

5.Day

UB1

- UMDF PLUG & PLAY
- KMDF PLUG & PLAY

Pause

UB2

- UMDF POWER-Management
- KMDF POWER-Management

Lunch

UB3

- Framework Coinstaller
- USB CoInstaller

Pause

UB4

- INF-Files
- Driver Signing