Release Notes - MC21XX - E_SCN_CANTSTARTDEVICE error on laser scan engine SPR 25340

Introduction

On MC21XX 128 MB RAM devices with laser scan engine, after opening and closing EMDK .NET scanner application multiple times, scanner fails to start with E_SCN_CANTSTARTDEVICE error.

Description

1. This patch addresses the E_SCN_CANTSTARTDEVICE error on SCAN_Enable API on MC21XX 128 MB RAM devices with laser scan engine. The error occurs because physically contiguous DMA buffer allocation fails during SCAN_Enable API as physical memory is fragmented.
2. As a part of fix, scanner DLL CamScanPDD1D.dll is loaded at boot time by "ScanLock" application and locked in memory. This also allocates the DMA buffer at boot time and is never released. Note that this fix does not power up the laser engine until an application actually starts using the scanner.
3. If an application or the user cleans up '\Application' or '\Application\ScanLock' folder, this .cab solution has to be re-installed.

Contents

SPR25340_MC21XX_ScanLock_WithReboot.cab
SPR25340_MC21XX_ScanLock_NoReboot.cab

Device Compatibility

This software release has been approved for use with the following Symbol devices.

Device	Operating System
MC21XX	WinCE 6.0

Installation Requirements

- MC21XX OS Version 01.34.0017
- MC21XX OS Version 03.34.0023

Installation Instructions

For NORMAL installation of the PATCH:

1. Copy "SPR25340_MC21XX_ScanLock_WithReboot.cab" file to the device.
2. Deploy the solution by tapping on the .cab file.
3. After successful deployment of the .cab file, device will do an automatic warm boot.

For MSP or REMOTE installation of the PATCH, use

"SPR25340_MC21XX_ScanLock_NoReboot.cab" file. This cab will not perform an automatic warm boot. MSP/Remote Installer is responsible for performing the warm boot

Part Number and Release Date

SPR25340_MC21XX_ScanLock_WithReboot.cab
SPR25340_MC21XX_ScanLock_NoReboot.cab
May 13, 2014