



Aptio AMISLP 5.01 User Guide

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Revision History

Date	Rev	Description
01/30/2007	1.00	Initial revision
09/02/2007	1.01	Added APTIO 4 information
21/02/2007	1.02	Added GUID for SLP Driver and file type for files to be added to ROM image
2007-08-23	1.03	Updated to documentation standard Minor document formatting
2007-09-12	1.04	Added product version number to page 1
2008-04-22	1.05	Added quiet mode
2009-08-05	1.06	Updated screen shots, title page, legal page and document properties. Minor document formatting done.
2009-08-07	1.07	Updated screen shots.
2009-08-24	1.08	Updated table of contents and supported operating system.
2010-02-03	1.09	Library update for Optimize size and PEI relocation support
2011-05-09	1.10	Update for /cap option
2011-07-15	1.11	Address review comments
2011-07-22	1.12	Updated document standard
2011-08-15	1.13	CspLib requirements. Dummy marker and key file support
2013-07-12	1.14	APTIO V support
2014-01-02	1.15	Updated supported OS list
2014-12-11	1.16	Updated for AMISLP v5.01.0005 release.

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Introduction

Overview

The AMI SLP OEM Tool is intended to provide the Aptio BIOS with the binary images required by Windows OEM Activation. The binary images, Windows Marker and Public Key files, are required to reside in the ACPI_SLIC table when Windows starts up. AMISLP is responsible for inserting the two binary files, while the BIOS is responsible for creating the ACPI tables during system boot.

AMISLP Features

The AMI SLP OEM Tool offers the following features:

- Inserts Public key and Windows Marker bin files into appropriate FFS files in specified ROM image
- Windows command line utility
- Provides OEMID and OEMTableId for a specified ROM image
- Validates the OEMID and OEMTableId in the Windows Marker matches the values in the ACPI tables
- Verifies the availability in the ROM image or the correct driver for installing the bin images into the ACPI_SLIC table
- Verifies that the two FFS files are not currently present in the ROM image before inserting them. Allows replacement of dummy files (all ff).
- Capsule file support
- Supports APTIO V
- Block execution on non Aptio V ROM images
- Support to update unsigned area without invalidating signature

Requirements

Supported Operating System

AMI SLP OEM Tool is supported by the following operating systems:

- Microsoft® Windows® 2000
- Microsoft® Windows® XP

- Microsoft® Windows® 2003
- Microsoft® Windows® Vista
- Microsoft® Windows® PE
- Microsoft® Windows® 7
- Microsoft® Windows® 8
- Microsoft® Windows® 8.1
- Microsoft® Windows® Server 2008 R2
- Microsoft® Windows® Server 2012 R2

Firmware Requirements

AMI SLP OEM Tool requires that the input file be an Aptio V Firmware file.

The Aptio Firmware file can be loaded to your host system from the hard disk drive.

Compatible with APTIO V. It is recommended for Aptio 4.6 to use at least AMISLP version 1.02. Aptio 4.6.4 requires CspLib label 16 or later and at least AMISP version 1.06.

Goal

The goal is to provide a solution whereby the Windows Marker and Public Key files binary images are correctly placed into the firmware image, ensuring that the firmware doesn't already contain the files and that the firmware contains the necessary driver.

Getting Started

Installation

To install AMISLP into your host system, copy the deliverables to the hard disk drive.

To run the AMISLP program, double left click on the AMISLP.exe icon or run from a command box.

Features and Functions

Overview

The AMISLP OEM Tool offers the following features:

1. Display OEMID
2. Insert Public key and Windows Marker files

These features are explained in more detail in this chapter.

Display OEMID

The tool will provide the ability to extract the OEMID and OEMTableId from an existing ROM image to assist the user in creating the correct binary images required as input.

The Following command displays the OEMID and OEMTableID:

Amislp /D ROMfilename

Where ROMfilename is the name of the ROM image from which to extract and display the OEMID and OEMTableId.

An example of AMISLP displaying OEMID and OEMTableID is shown below:



```
C:\> Command Prompt
E:\>AMISLP /D AmiSlpTst.rom
+-----+
| AMISLP 1.06.0020 |
| Copyright (c)2011 American Megatrends, Inc. |
+-----+

OEM ID = ALASKA
OEM TABLE ID = H55HC
E:\>_
```


Insert Public Key and Windows Marker files

The Following command inserts Public key and Windows Marker files into appropriate FFS files in specified ROM image:

Amislp /I ROMFilename SLP20PubKey.bin SLP20Marker.bin /U /Q /cap

Where

ROMfilename is the name of the ROM image from which to extract and display the OEMID and OEMTableId,

SLP20PubKey.bin is the binary file containing the Public Key, and

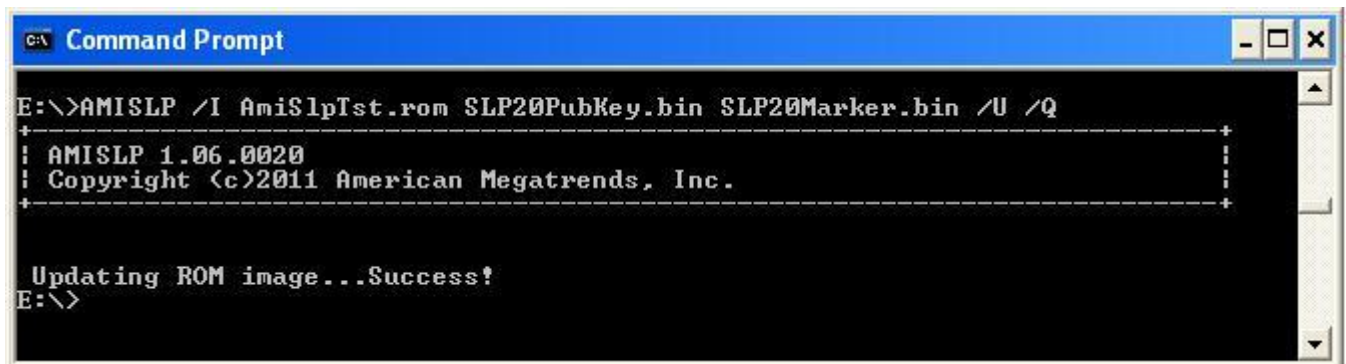
SLP20Marker.bin is the binary file containing the Windows Marker.

/U is an optional command that will store the files uncompressed in the ROM image. The default is to store the files compressed.

/Q is an optional command that suppresses interim messages during the save operation.

/cap is an optional flag that indicates that the file is to be loaded as capsule.

An example of AMISLP inserting Public key and Windows Marker file is shown below:



```
C:\> Command Prompt
E:\>AMISLP /I AmiSlpTst.rom SLP20PubKey.bin SLP20Marker.bin /U /Q
+-----+
| AMISLP 1.06.0020 |
| Copyright (c)2011 American Megatrends, Inc. |
+-----+

Updating ROM image...Success!
E:\>
```

Capsule Files

AMISLP identifies a capsule file in one of two ways, if the file has a '.cap' extension or if the '/cap' option is given in the command line. Once the file is identified as a capsule file, the image open process will return a load error if the image file does not have a valid capsule header.