Flash BMC User Guide

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Purpose

This document provides information to use the socflash tools and BMC Web Interface to update the system BMC on the Inspur Grantley platform.

Introduction

SOCFlash is a tool in DOS to update the BMC FW.

BMC(Baseboard Management Controller) Web Interface provides a out of band method to update the system BMC.

Supported Operating System

SOCFlash Tools is supported DOS operating systems:

Operation

Introduce SOCFlash Tools used in DOS, and how to update BMC in BMC web interface.

SOCFlash

- 1. Start the System, and boot to DOS.
- 2. Copy the BMC FW to the DOS system.
- 3. Input CMD : socflash.exe if=BMCFW

BMCFW is the name of BMC Firmware

Example:

```
Microsoft(R) Windows 98
(C)Copyright Microsoft Corp 1981-1999.
C:\>socflash.exe if=BMCFW_
```

The BMC FW will be update.

```
Microsoft(R) Windows 98
   (C)Copyright Microsoft Corp 1981-1999.
C:\>socflash.exe if=BMCFW
ASPEED SOC Flash Utility v.1.12.03
Found ASPEED Device 1a03:2400 rev. 30
Static Memory Controller Information:
CSØ Flash Type is SPI
CS1 Flash Type is SPI
CS2 Flash Type is NOR
CS3 Flash Type is NOR
CS4 Flash Type is NOR
Boot CS is 0
Option Information:
CS: 0
Flash Type: SPI
[Warning] Don't AC OFF or Reboot System During BMC Firmware Update!!
[SOCFLASH] Flash ID : 1920c2
Find Flash Chip #1: MXIC MX25L256/257
Update Flash Chip #1 O.K.
Update Flash Chip O.K.
2:55
```

*

Firmware update successfully, the BMC will reset.

Update BMC in BMC Web Interface

1. Get the BMC Web IP.

Start the System, when the screen appears Inspur Logo, and press to BIOS Setup. Move to "Server Mgmt" Interface, Choose "BMC network configuration". And press <Enter>. The "Station IP address" will show the BMC Web IP.



2. Login in BMC Web

Start IE, type the BMC IP in the address bar, and Type the user name and password (admin/admin). The BMC Web interface is shown below.

PUI Management Syste	em 🍐 admin(Administrator)		† General Information	C Refresh	🏵 Language 👻	? Help 🛛 🥐 Log	
system Information	General Information						
itorage							
Remote Control	System Running State		Quick Lau	Quick Launch Tasks			
	Current Power Status	[More]					
ower and Fan	CPU	[More]	Canaala	Dedirection	Dower Control	Users	
MC Settings	Memory	[More]	Console	Redirection	Power Control		
ogs	Hard Disk	[More]				(U) Firmware Update	
- oult Diagnosis	Fan	🔀 [More]					
auit Diagnosis	Power Supply Units	🚫 [More]	Ne	twork	Hardware Monitor		
ystem Maintenance	Chassis Intrusion	(Chassis is closed)					
BMC FW Update							
BIOS FW Update	BMC Information	BMC Information		FW Version Information			
Restore Factory Defaults System Administrator	Lan Interface	Shared Dedicated	BMC Revis	sion	4.19.0(Jul 19 2016 15:05:53 CST)		
	MAC Address	6C:92:BF:2B:26:25	BIOS Revi	sion	4.1.1(Jun 28 2016)		
	Network Mode	DHCP	ME Revisio	on	3.1.3.32		
	IPv4 Address	100.2.74.15	PSU0 Revi	ision	0.030		
	Web Session Timeout	1800s	PSU1 Revi	ision	N/A		
	Web Active Users	3/20	CPU0 VR	Revision	03		
	Server Running Time	0 Days 0 Hours	CPU1 VR	Revision	03		

3. BMC FW Update

Choose "BMC FW Update" in the "System Maintenance" on the left menu of the BMC Web.

Management System × +		the state in the set of the set of the set of the					
2 3 10.53.11.125/main.html#/fwUpdate		🦁 嬲 ⊽ C 🔍 百度 <ctrl+k></ctrl+k>	☆ 自 ∔ ☆ ❷ ち - ❷ ね -				
NSPUI Management System	admin(Administrator)	A General Information	🗢 Refresh 🔞 Language 🗸 🥐 Help 📌 Logout				
BMC Settings	 Click 'Preserve all configuration' will preserve all the configuration settings during the firmware update. This section lists the configuration items, items that configured as 'Preserve' will be preserved during restore factory default configuration. Click 'Preserve Configuration' to modify the preserve configuration items. 						
Fault Diagnosis	4. Click 'Enter Firmware Update Mode' to update firmware. Preserve all configuration						
BMC FW Update BIOS FW Update Restore Factory Defaults	NO. 1 2 3	Preserve Settings SDR SEL IPMI	Update Policy Overwrite Overwrite Overwrite				
• System Administrator	4 5 6	Network NTP SSH	Overwrite Overwrite Overwrite				
	7 8	KVM Authentication	Overwrite Overwrite				
		Ente	r Preserve Configuration Enter Firmware Update Mode				

Please note:

1. After entering update mode widgets, other web pages and services will not work. All open widgets will be closed automatically. If upgrade process is cancelled in the middle of the wizard, the device will reset.

2.Click 'Preserve all configuration' will preserve all the configuration settings during the firmware update.

3. This section lists the configuration items, items that configured as 'Preserve' will be preserved during restore factory default configuration. Click 'Preserve Configuration' to modify the preserve configuration items.

4.Click 'Enter Firmware Update Mode' to update firmware.

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 I0.53.11.125/main.html#/fwUpdate 			☆ 自	↓ ☆ ¢	• • ·	9ц-	≡
INSPUC Management System	admin(Administrator)	† General Information	Refresh	😨 Language	 Help 	A Logout	Ê
System Information	BMC Firmware Update						
Storage	1 Please click the button to enter firmware	undate mode					
🛃 Remote Control							
🕐 Power and Fan		Enter Firmware Update Mode					E
🐞 BMC Settings							
🜉 Logs	2. Please select the image file, click the bu	tton to upload and verify.					
A Fault Diagnosis	浏	訖 NF5170M4_BMC_4.9.0_TEST_20150926.bin					
🍳 System Maintenance							
		Upload					
	3. Verify successfully, please click the butto	on to update firmware.					
		Proceed to update					
							Ŧ

Step 1. Please click the button to enter firmware update mode.

Step 2. Please select the Image file, click the button to upload and verify.

Step 3. Verify successfully, please click the button to update firmware.

Step 4. Firmware update successfully, please open a window to login.

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