

R421

R422

R422-INF

HOW TO: Update the AOC-  
SIMSO firmware

NOVASCALÉ  
UNIVERSAL





# NOVASCAL UNIVERSAL

R421

R422

R422-INF

HOW TO: Update the AOC-SIMSO  
firmware

**Hardware**

July 2007

BULL CEDOC  
357 AVENUE PATTON  
B.P.20845  
49008 ANGERS CEDEX 01  
FRANCE

**REFERENCE**  
Rev06v01

The following copyright notice protects this book under Copyright laws which prohibit such actions as, but not limited to, copying, distributing, modifying, and making derivative works.

Copyright © Bull SAS 2007

Printed in France

Suggestions and criticisms concerning the form, content, and presentation of this book are invited. A form is provided at the end of this book for this purpose.

To order additional copies of this book or other Bull Technical Publications, you are invited to use the Ordering Form also provided at the end of this book.

### **Trademarks and Acknowledgements**

We acknowledge the right of proprietors of trademarks mentioned in this book.

Intel® and Itanium® are registered trademarks of Intel Corporation.

Windows® and Microsoft® software are registered trademarks of Microsoft Corporation.

UNIX® is a registered trademark in the United States of America and other countries licensed exclusively through the Open Group.

Linux® is a registered trademark of Linus Torvalds.

*The information in this document is subject to change without notice. Bull will not be liable for errors contained herein, or for incidental or consequential damages in connection with the use of this material.*

---

# Table of Contents

Preface.....	iii
Intended readers.....	iii
<b>Chapter 1. How to replace the AOC-SIMSO(+) firmware .....</b>	<b>1-1</b>
1.1 How to replace the AOC-SIMSO or AOC-SIMSO+ firmware by means of the IPMIview application.....	1-2
1.1.1 Prerequisites.....	1-2
1.1.2 Procedure.....	1-2
1.1.3 How to check the AOC-SIMSO or AOC-SIMSO+ firmware version number.....	1-5
1.2 How to replace the AOC-SIMSO or AOC-SIMSO+ firmware by means of a WEB browser application.....	1-8
1.2.1 Prerequisites.....	1-8
1.2.2 Procedure.....	1-8
1.3 How to replace the AOC-SIMSO or AOC-SIMSO+ firmware by means of a bootable USB key.....	1-14
1.3.1 How to create your 'Bootable USB Key'.....	1-14
1.3.2 How to use your 'Bootable USB Key'.....	1-15



---

## Preface

This HOW TO explains how to replace the AOC-SIMSO or AOC-SIMSO+ card firmware for the following servers:

- NovaScale Universal R421
- Novascale Universal R422
- Novascale Universal R422-INF

All items, including firmware, BIOS, tools, packages or manuals, which are included in this manual with an \* character can be downloaded from the Bull web site:

**Bull S.A.S. support Web site**

<http://support.bull.com>

---

## Intended readers

This HOW TO is written for very qualified user's or Bull SAS support technicians.



---

# Chapter 1. How to replace the AOC-SIMSO(+) firmware



## Note:

To better understand this chapter it is recommended that the following document is read first:

Bull NovaScale R42x AOC-SIMSO/SIMSO+ Installation and User's Guide (86 A1 96ET 00)

There are two models of IPMI card used to manage the servers.

### 1. AOC-SIMSO

(with support of the Serial Over LAN functionality but without the support of KVM over LAN functionality)

### 2. AOC-SIMSO+

(with support of the Serial Over LAN and KVM over LAN functionalities).

Each model can be installed into the following servers:

- Novascale Universal R421
- Novascale Universal R422
- Novascale Universal R422-INF

We assume in this chapter that it is necessary to replace the firmware of the AOC-SIMSO or AOC-SIMSO+ card of a server named **TARGET**.

There are three different ways of replacing the AOC-SIMSO or AOC-SIMSO+ firmware.

3. Use the IPMI View application from a server which can access the AOC-SIMSO(+) IP address (IPMI view exists for both Windows and Linux).
4. Use a WEB browser application from a server which can access the AOC-SIMSO(+) IP address; this works regardless of the type of operating system.
5. Use the script `C:\DOS\AOCSIMSO\upgrade.bat` on the *bootable USB key\**.

# 1.1 How to replace the AOC-SIMSO or AOC-SIMSO+ firmware by means of the IPMI View application

## 1.1.1 Prerequisites

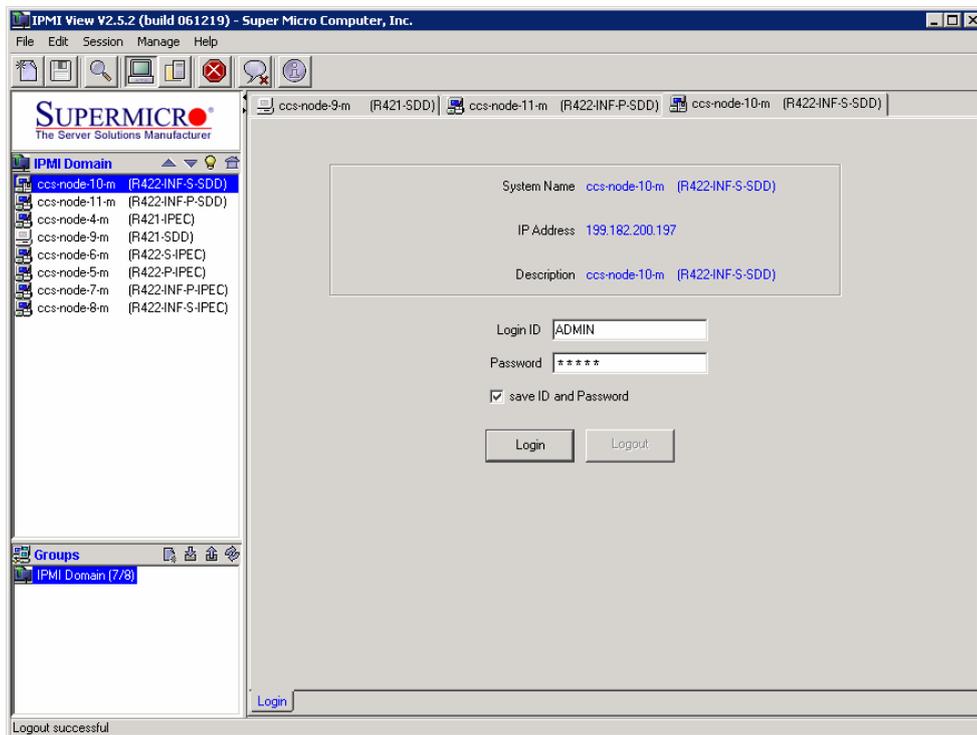
The example that follows applies to a PC named **SUPPORT** which can access the network 192.168.1.\*

It is further assumed that new firmware (for example: **ugsim131.bin**) has been downloaded from <http://support.bull.com>

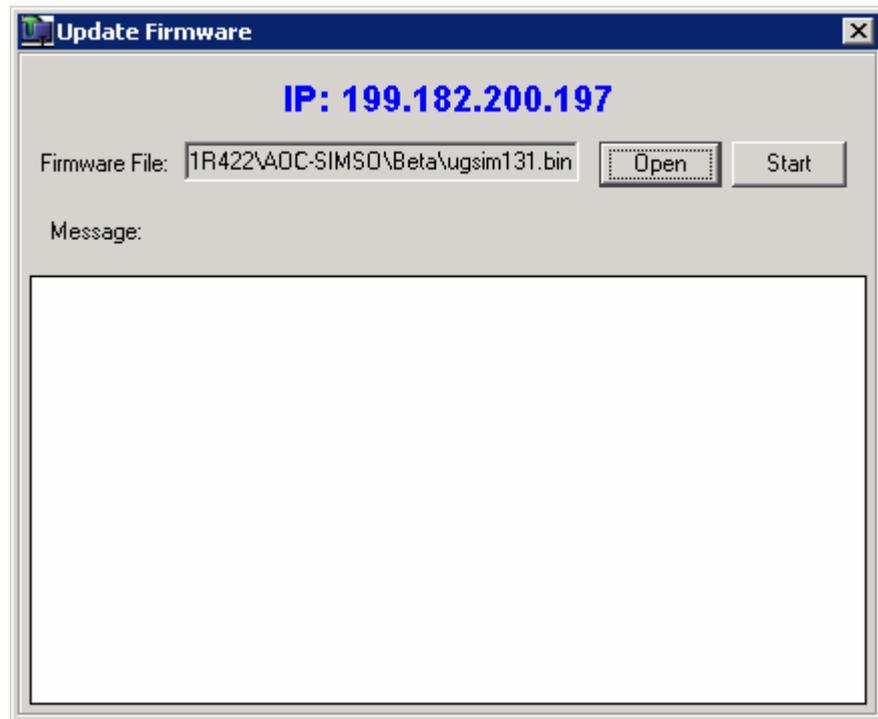
to the file (SUPPORT)C:\R421R422\AOCSIMSO\beta\ugsim131.bin

## 1.1.2 Procedure

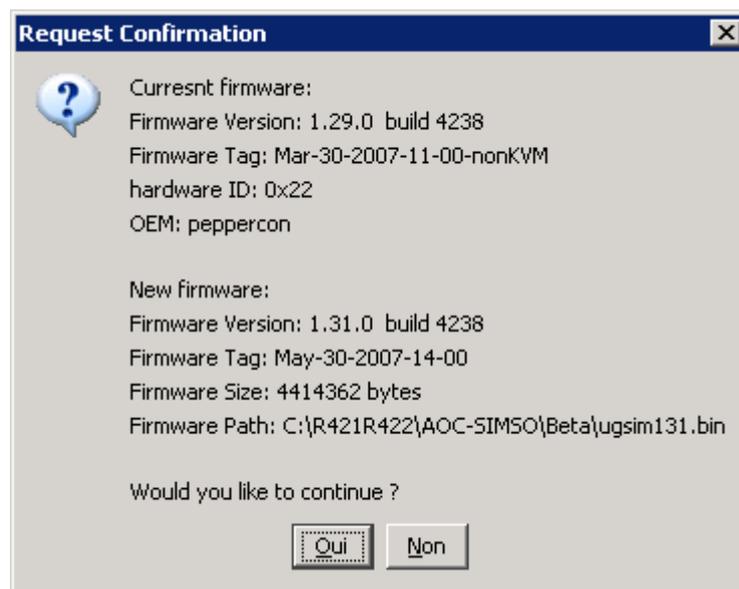
1. On the server **SUPPORT** launch the IPMI View application.
2. Log in to target AOC-SIMSO or APC-SIMSO+
  - Type in Login ID in the **Login ID** box (default Login ID is ADMIN)
  - Type in Password in the **Password** box (default password is ADMIN)
  - Click on the **Login** button.



3. Open the File menu and click on Update IPMI firmware
  - Type in the local file path of the firmware in the **Firmware File** box.  
Example: C:\R421R422\AOCSIMSO\beta\ugsim131.bin
  - Click on the **Start** button.



4. The current and new firmware versions are displayed.
  - Click on **Yes** to confirm the request.

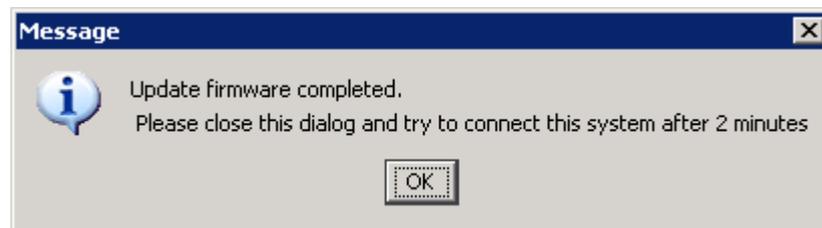
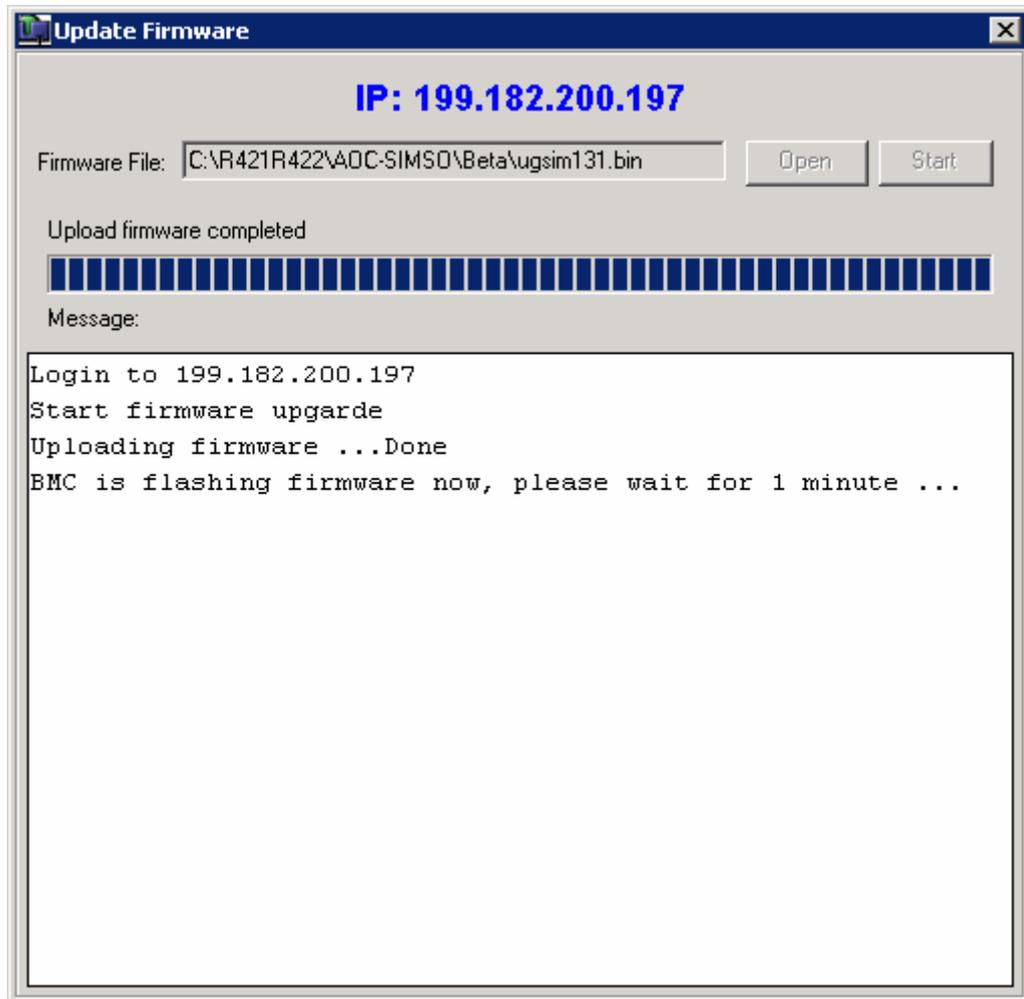


Firmware uploading starts.

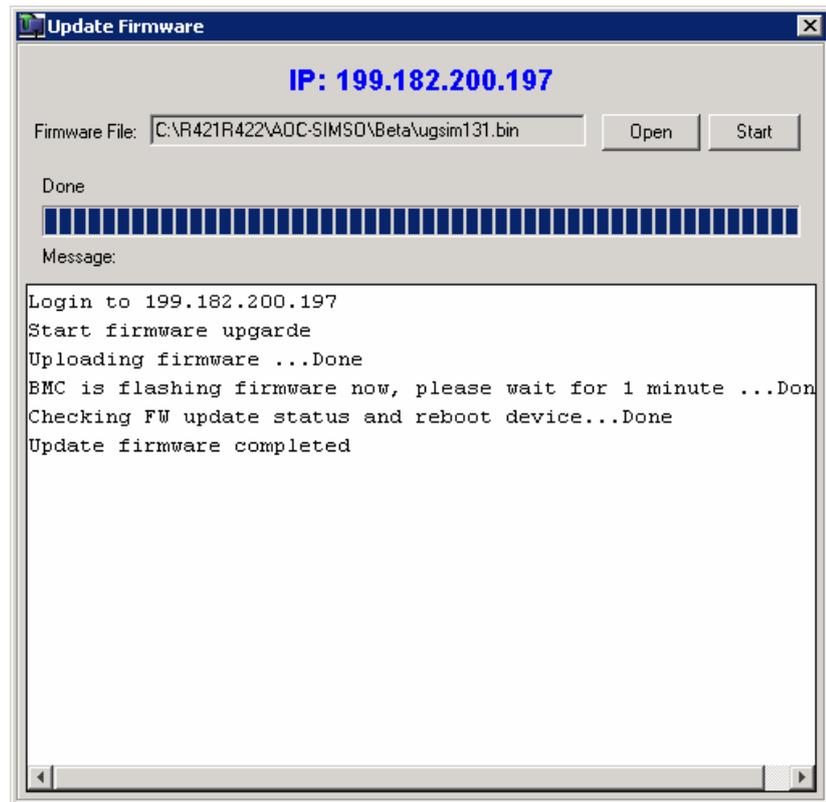


**Warning:**

Do not forget to wait for the message "Firmware update completed".



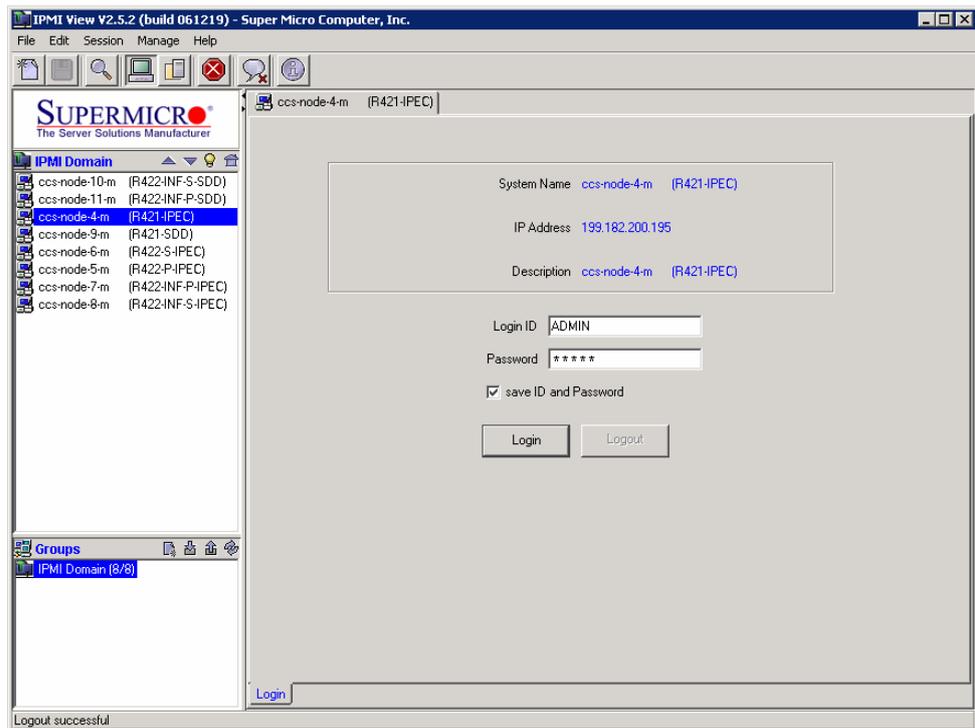
5. Click on the **OK** button.



6. Close the **Update Firmware** window.
7. Close the session.

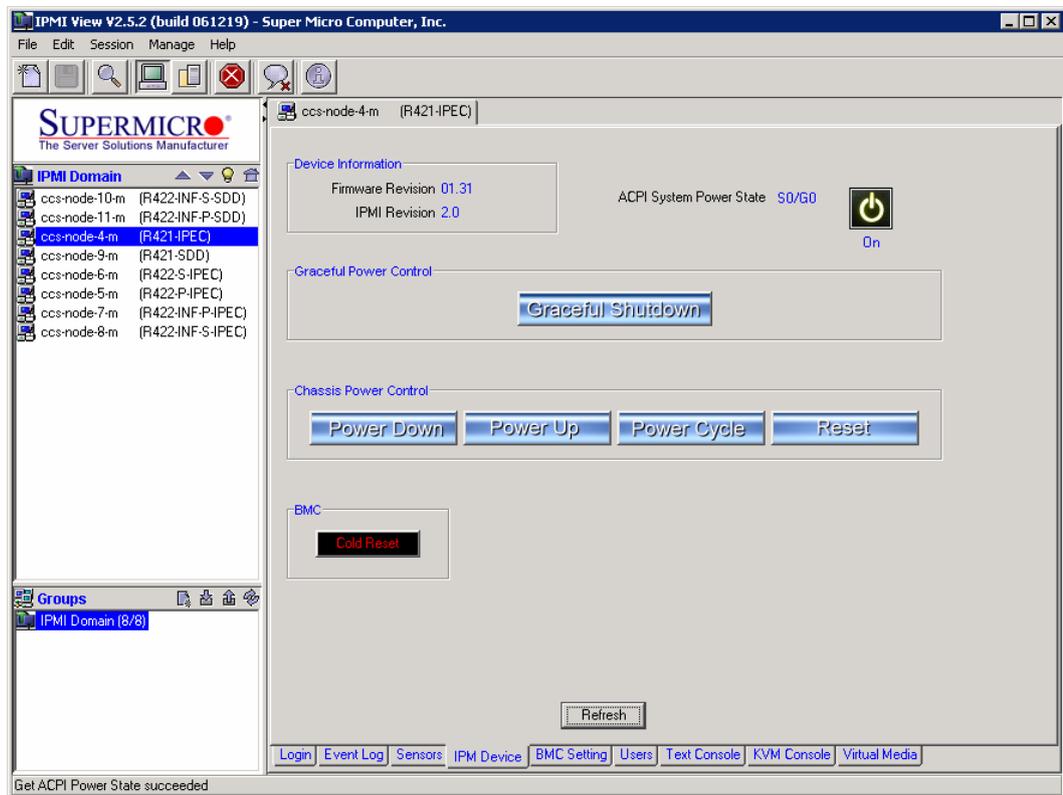
### 1.1.3 How to check the AOC-SIMSO or AOC-SIMSO+ firmware version number

1. Log in again to **TARGET** AOC-SIMSO or AOC-SIMSO+
  - Type in Login ID in **Login ID** box
  - Type in Password in **Password** box
  - Click on **Login** button

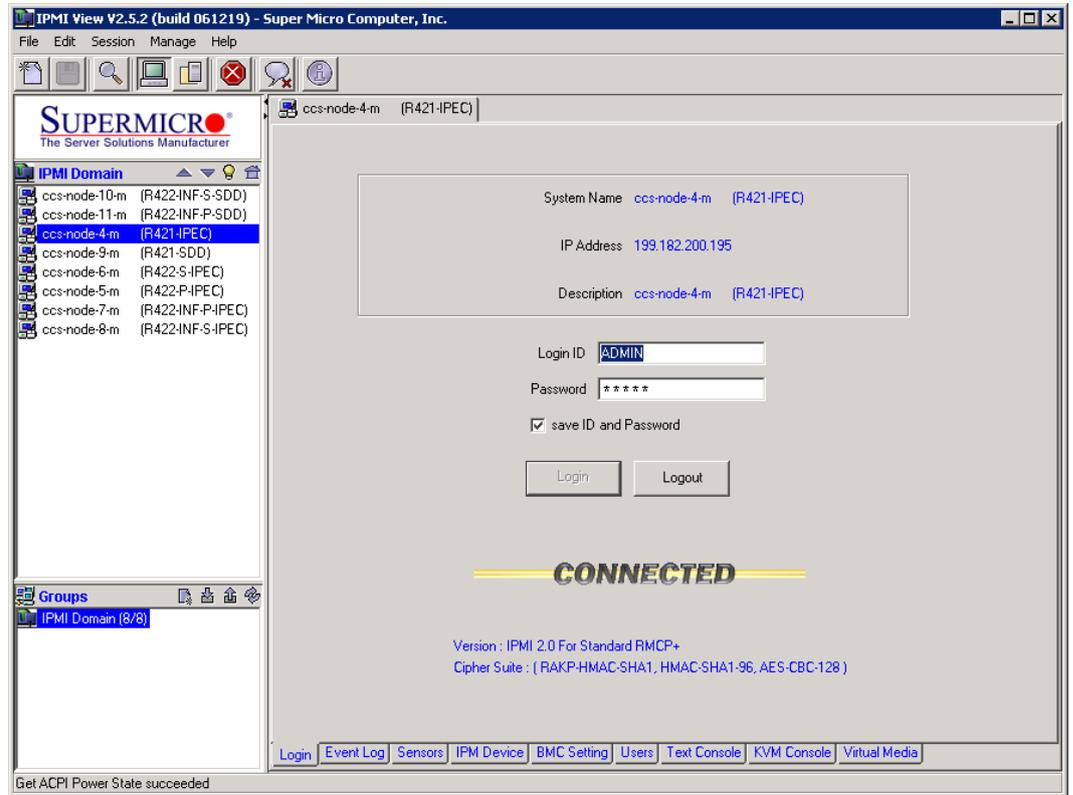


2. Click on the **IPM** tab page

- Firmware version displays into **Device Information** frame.



3. Click on the **Logout** button.



4. Close the session.

## 1.2 How to replace the AOC-SIMSO or AOC-SIMSO+ firmware by means of a WEB browser

### 1.2.1 Prerequisites

The example that follows applies to a PC named **SUPPORT** which can access the network 192.168.1.\*

It is further assumed that new firmware (for example: **ugsim131.bin**) has been downloaded from <http://support.bull.com>

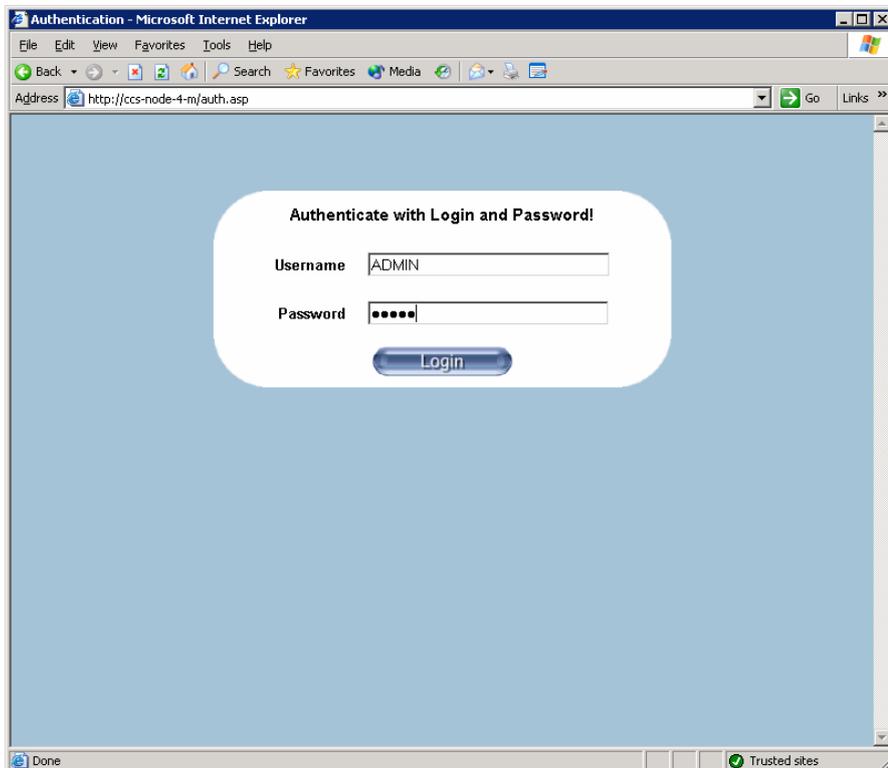
to the file (SUPPORT)C:\R421R422\AOCSIMSO\beta\ugsim131.bin

### 1.2.2 Procedure

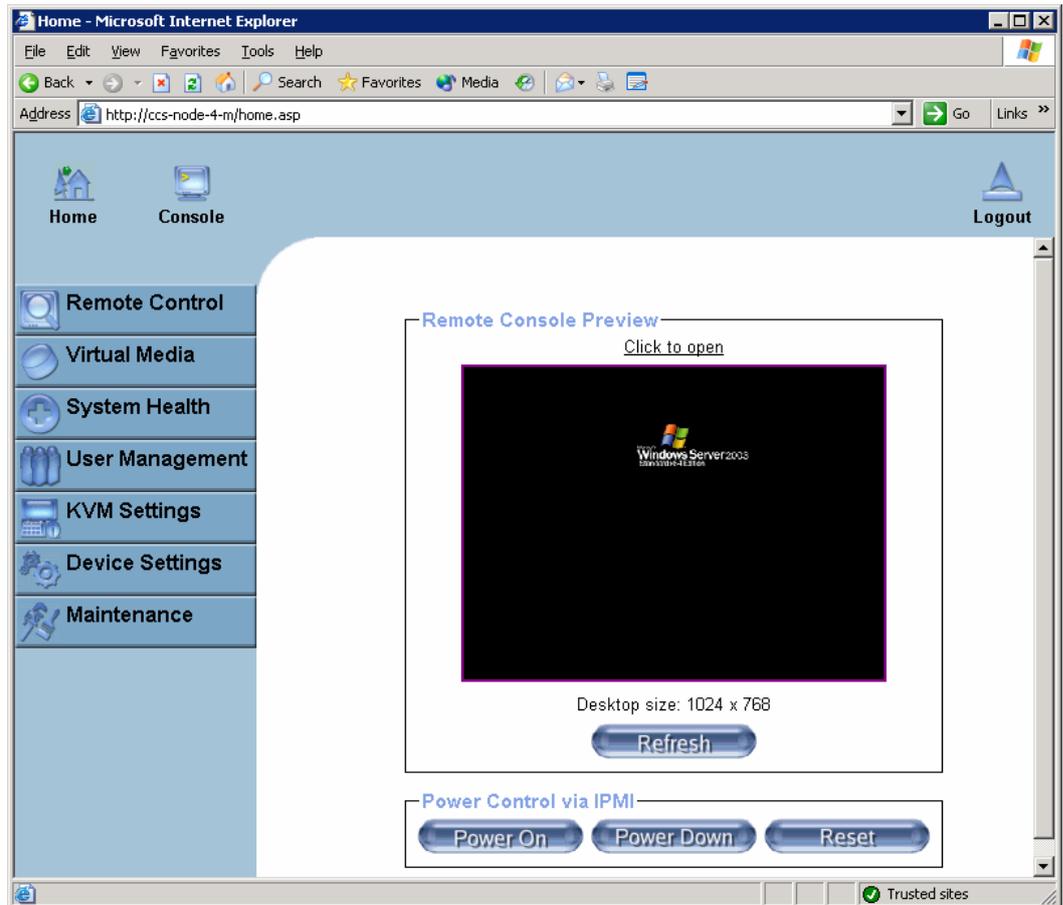
On the server **SUPPORT**, open your WEB browser (for example Internet Explorer on Windows) and type in the AOC-SIMSO or AOC-SIMSO+ IP address.  
(example: <http://192.168.1.102>)

Type in your Username in the **Username** box (The default username is **ADMIN**)

Type in your Password in the **Password** box (The default password is **ADMIN**)



The Home Page will display as shown below.

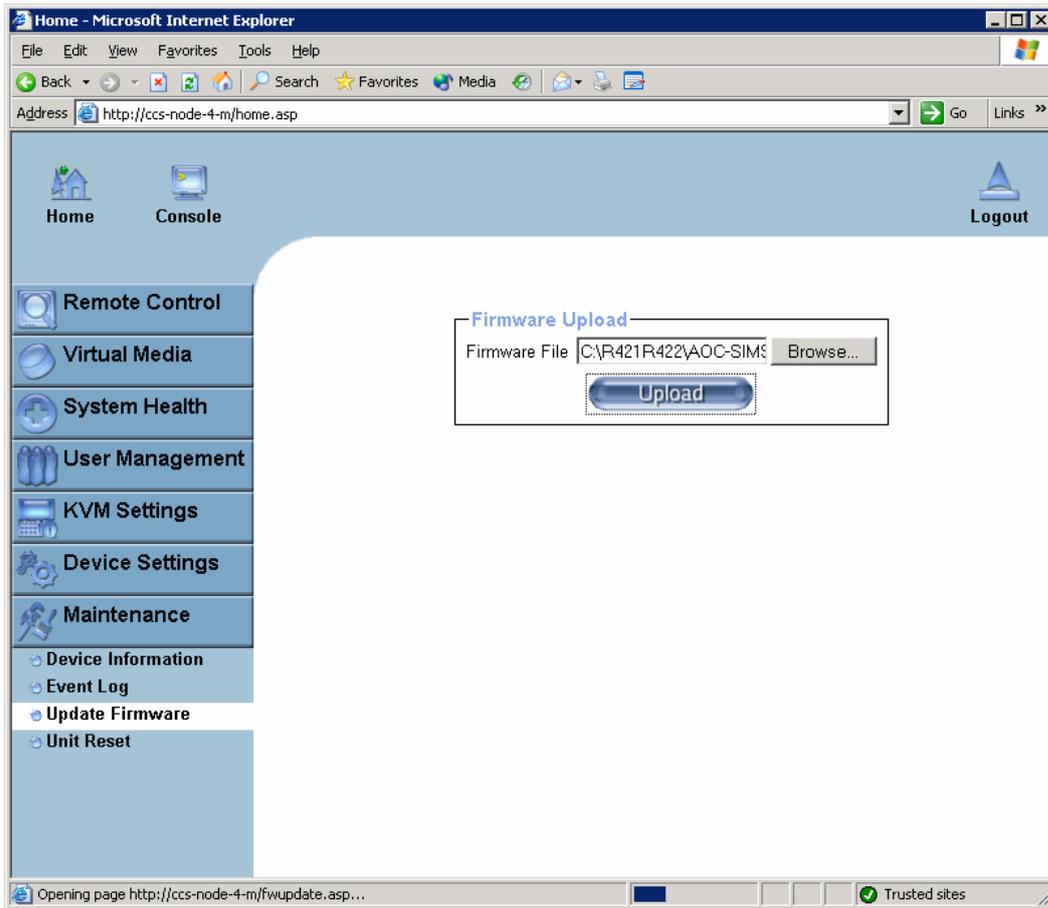


Click on the **Maintenance** Icon on the Home Page to activate its submenus.

- Then click on the **Update Firmware** function to enable **Update Firmware**.
- Enter the name of the firmware you want to update or click on the **Browse** icon to select the firmware file.
- Click on the **Upload** icon to upload the firmware file to the server for the update.

 **Note:**

This process is not reversible once the firmware is updated, so proceed with caution. It might take a few minutes to complete the procedure.

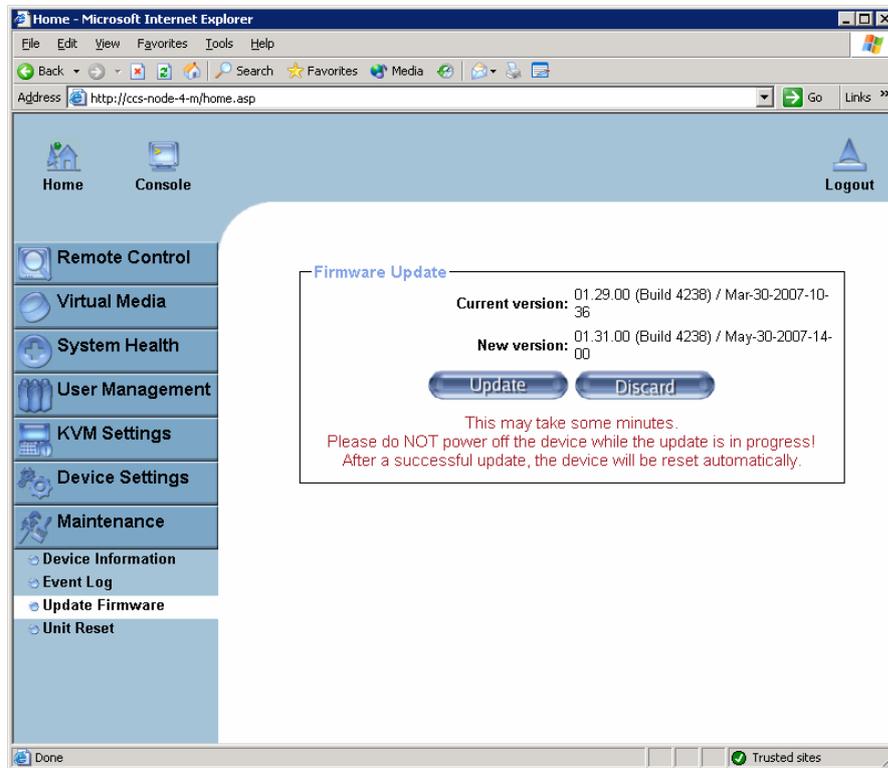


Click on the **Update** button

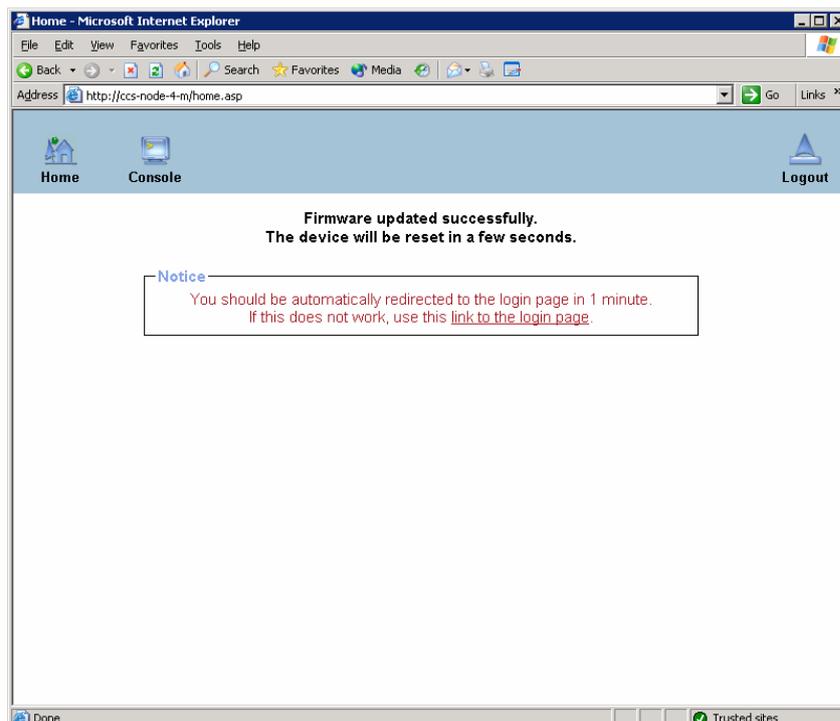


**Note:**

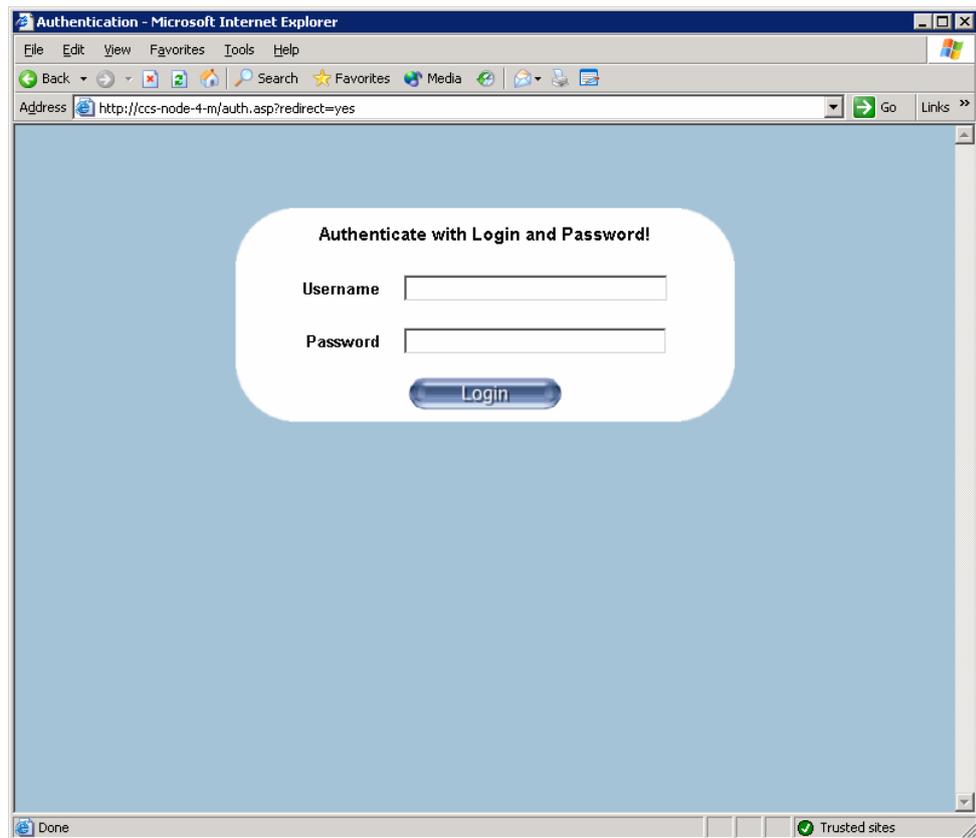
It might take a few minutes to complete the procedure.



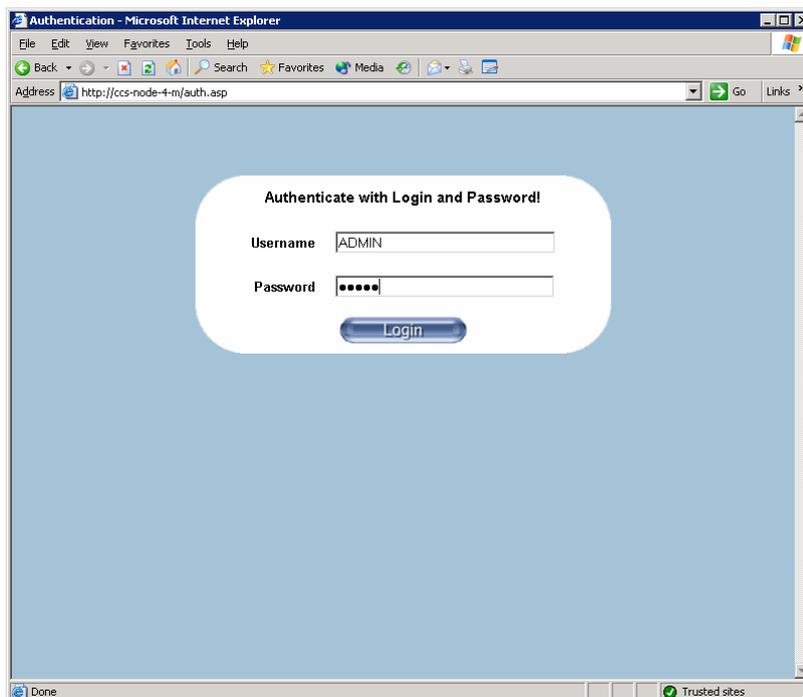
When the procedure is successfully terminated, the message below is displayed.



The browser is redirected to the login page within 1 minute.

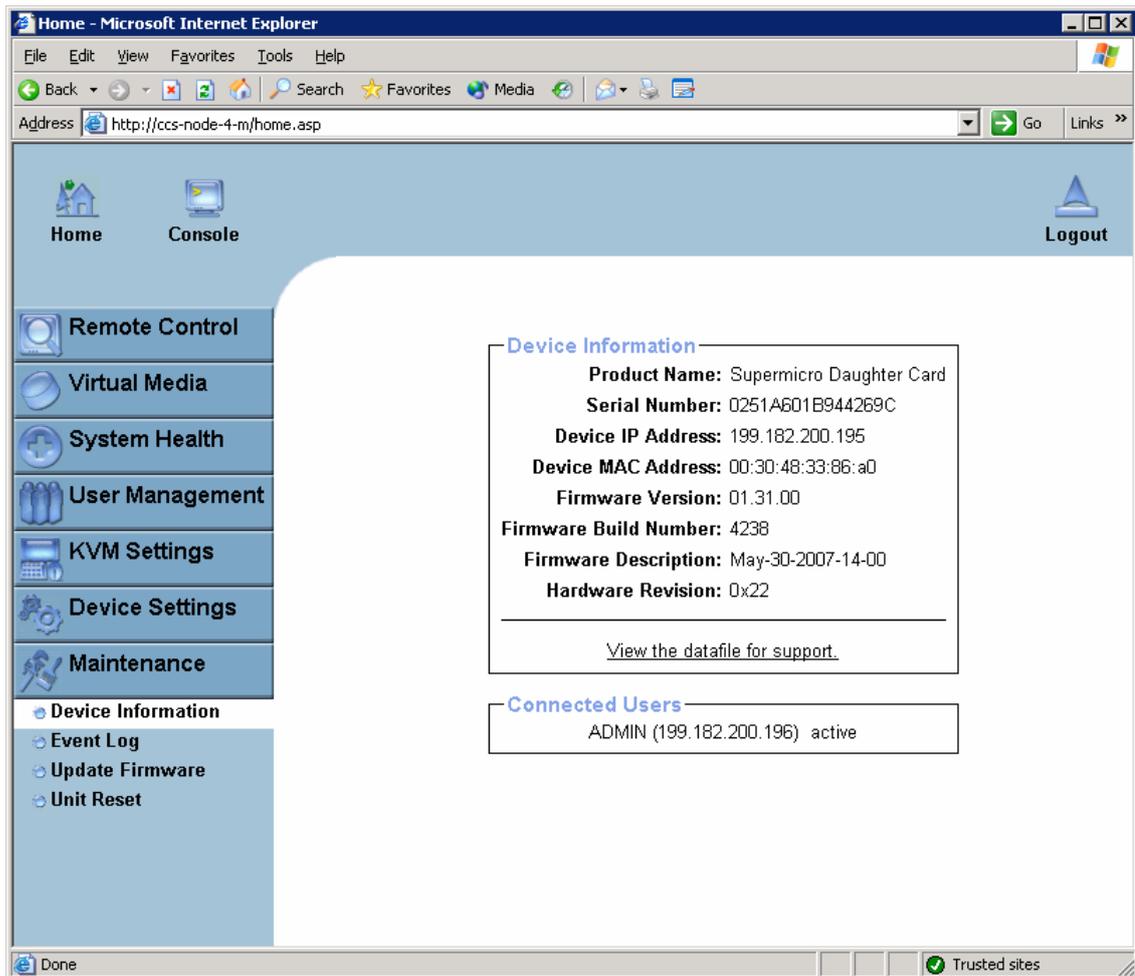


- To verify the firmware version, log in again to the target AOC-SIMSO or AOC-SIMSO+ card
- Type in your Username in the **Username** box (The default username is **ADMIN**)
- Type in your Password in the **Password** box (The default password is **ADMIN**)



Click on the **Maintenance** icon on the Home Page to activate its submenus.

- Then click on the function “Device Information” to display the firmware version.



- Click on the “Logout” button to log out from Remote Console Interface.

## 1.3 How to replace the AOC-SIMSO or AOC-SIMSO+ firmware by means of a bootable USB key

This procedure is reserved for Bull S.A.S. support technicians when, for example, an AOC-SIMSO or AOC-SIMSO+ card must be replaced.

In this case:

- The AOC-SIMSO or AOC-SIMSO+ firmware must be upgraded.
- The IP address of the replaced card must be restored on the new card.



### Note:

The technician must have a portable PC (hereafter named SUPPORT) running the Windows operating system.

### 1.3.1 How to create your 'Bootable USB Key'

1. Download the **Bootable-USB-Key-kit.zip** from the Bull S.A.S. support WEB site.

<http://support.bull.com/ols/product/platforms/ns/uline/r400/r421/dl/index.html>

<http://support.bull.com/ols/product/platforms/ns/uline/r400/r422/dl/index.htm>

to (SUPPORT)C:\R421R422\

2. Deploy (extract all files) the **Bootable-USB-Key-kit.zip** the in local directory

(SUPPORT)C:\R421R422\

3. Change the directory to

(SUPPORT)C:\R421R422\ClefUSBbootable-Tools

4. Connect an USB Key to your **SUPPORT** server (for example Windows might see this USB key on drive J: (for example) )



### CAUTION:

All data on this USB key will be lost.

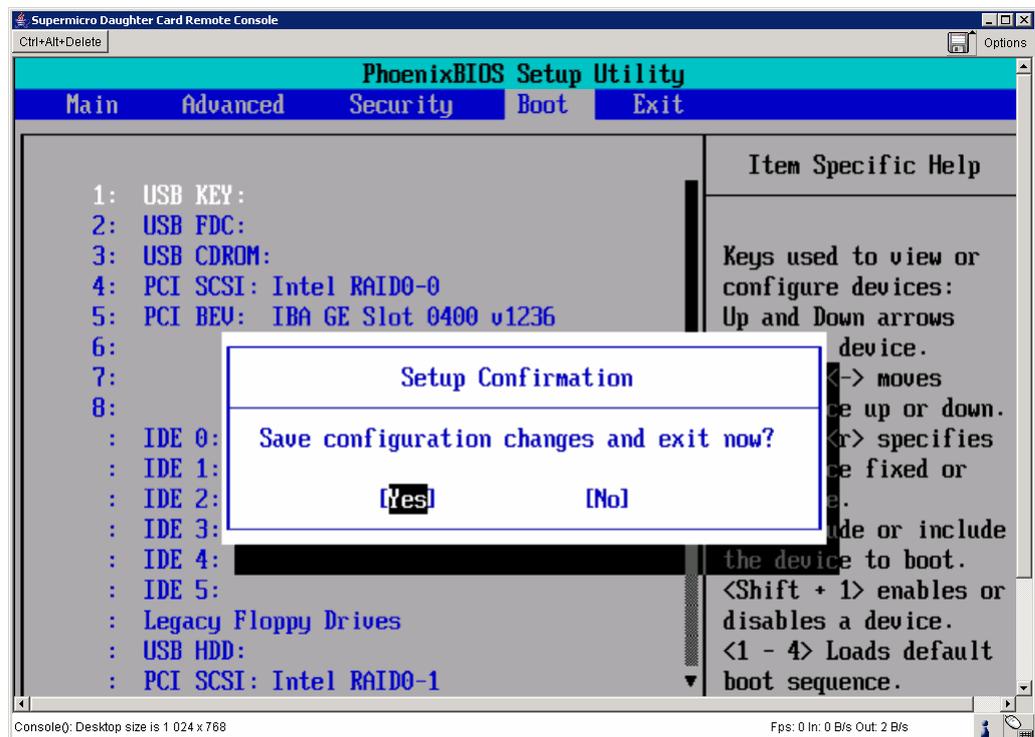
Execute the following command to create your **Bootable USB Key**.

```
CreateBootableUSBkey.bat J
```

And follow the directions which appear.

## 1.3.2 How to use your 'Bootable USB Key'

1. From the **SUPPORT** server Log on to TARGET server either by means of a WEB browser or by means of the IPMI View application and switch to **Full screen** mode.
2. Connect your **Bootable USB Key** to a Novascale R421, R422 or R422-INF server USB port.
3. If necessary stop the operating system.
4. Reboot the system and press **Del** to run setup.
5. Move the **USB Key** to first position of the boot list.



6. Type **F10** and confirm the acceptance of the changes and the reboot of the server.

The server stops on prompt **C:\**

7. Change directory to

```
C:\DOS\AOCSIMSO\
```

8. If the server has an AOC-SIMSO card then execute the following command:

```
C:\Upgrade.bat SIMSO
```

otherwise if the server has an AOC-SIMSO+ card then execute the following command:

```
C:\Upgrade.bat SIMSOP
```

And follow the directions which appear.



## Technical publication remarks form

<b>Title:</b>	R421, R422, R422-INF HOW TO: Update the AOC-SIMSO firmware
---------------	--

<b>Reference:</b>	Rev06v01
-------------------	----------

<b>Date:</b>	July 2007
--------------	-----------

### ERRORS IN PUBLICATION

--

### SUGGESTIONS FOR IMPROVEMENT TO PUBLICATION

--

Your comments will be promptly investigated by qualified technical personnel and action will be taken as required.  
If you require a written reply, please include your complete mailing address below.

NAME: \_\_\_\_\_ DATE: \_\_\_\_\_

COMPANY: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

Please give this technical publication remarks form to your BULL representative or mail to:

Bull - Documentation D<sup>épt.</sup>  
1 Rue de Provence  
BP 208  
38432 ECHIROLLES CEDEX  
FRANCE  
info@frec.bull.fr





BULL CEDOC  
357 AVENUE PATTON  
B.P.20845  
49008 ANGERS CEDEX 01  
FRANCE

REFERENCE  
Rev06v01