AMI YAFUFLASH User Guide

AMI YAFUFLASH User Guide for Intel® Server Board M10JNP2SB

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Document Information

Purpose

This document provides information on YafuFlash Utility.

This document has been proofed for use of the AMI Aptio 5.x YafuFLash utility software when updating the BIOS on the Intel® Server Board M10JNP2SB.

For further support for this document, please contact your Intel Customer Support Representative.

Audience

MegaRAC SP-X™ Customers and Customer Support Teams.

Change History

<table>
<thead>
<tr>
<th>Date</th>
<th>Revision</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2019-10-21</td>
<td>1.00</td>
<td>Extracted from main SPX user guide</td>
</tr>
<tr>
<td>2020-03-18</td>
<td>1.01</td>
<td>Added legal disclaimers and branding for Intel usage.</td>
</tr>
</tbody>
</table>
YAFUFLASH

Yet Another Firmware Upgrade Flash (64 bit) is a tool used for flashing the BMC. This utility is used for flashing in both Linux and Windows environment. There are three types of mediums used to flash the BMC. They are,

- Network
- USB
- KCS

All the three mediums are applicable for Windows and Linux environment. The medium can be selected as per your requirement.

**Note:** YAFU based firmware update using Signed Hashed image is only possible if enough RAM is available to upload the full firmware image before the update starts.

In YAFU firmware upgrade, only YAFU command set is allowed if **Enable IPMI Command handling during flashing** support is disabled in project configuration.

YAFU flashing process has the following timeout values

- **LAN interface:** 3600 seconds
- **USB interface:** 1800 seconds
- **KCS interface:** 5400 seconds

If Secure Boot Support is enabled in the PRJ, YAFUFlash options for Section Based Flashing or Interactive mode will not be used. Hence any feature or options that rely on Section Based Flashing or Interactive mode cannot be used when Secure Boot Support is enabled.
## Requirements

### YAFUFlash OS Compatibility

<table>
<thead>
<tr>
<th>KCS/USB</th>
<th>LAN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Windows Server 2012</td>
<td>Ubuntu 16.04</td>
</tr>
<tr>
<td>Windows Server 2008</td>
<td>Windows 8.1</td>
</tr>
<tr>
<td>Ubuntu Server 16.04</td>
<td>Windows 10</td>
</tr>
<tr>
<td>Ubuntu Server 14.04</td>
<td>MACOS 10.10</td>
</tr>
<tr>
<td>RHEL 7.2</td>
<td>Fedora 24</td>
</tr>
<tr>
<td>RHEL 6.5</td>
<td>Fedora 24</td>
</tr>
<tr>
<td>SLES Server 12.1</td>
<td></td>
</tr>
<tr>
<td>SLES Server 11.4</td>
<td></td>
</tr>
</tbody>
</table>
Installation in Windows

1. Open the command prompt in administrator mode and enter YafuFlash\Windows path.
2. This contains two files, Yafuflash.exe and LIBIPMI.dll.

Installation in Linux

1. OpenSSL is pre-requisite for YafuFlash
2. Open Terminal and go to YafuFlash/Linux path.
3. This contains Yafuflash tool.
4. Run ./Yafuflash in the terminal.
5. Format: Yafuflash [OPTIONS] [MEDIUM] [FW_IMAGE_FILE], Where Perform BMC Flash Update
   - ? Displays the utility usage
   - h Displays the utility usage
   - V Displays the version of the tool
   - e List outs a few examples of the tool

[OPTIONS]
- info Displays information about existing FW and new FW.
- msi, -img-section-info Displays information about current FW Sections.
- mi, -img-info Displays information about current FW Versions.
- fb, -force-boot Option to FORCE BootLoader upgrade during full upgrade. Also, skips user interaction in Interactive upgrade mode. This option is not allowed with Interactive upgrade option.
- pc, -preserve-config Option to preserve Config Module during full upgrade. If platform supports Dual Image, this option skips user interaction, preserves config and continues update process. This option is not allowed with interactive upgrade option.
- q, -quite Use the option to show the minimum flash progress details.
- i Option to interactive upgrade (Upgrade only required)
<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>-f, -full</td>
<td>Performs full upgrade in Interactive Upgrade mode.</td>
</tr>
<tr>
<td>-ipc, -ignore-platform-check</td>
<td>If this image is for a different platform, this option skips user interaction and continues update process.</td>
</tr>
<tr>
<td>-idi, -ignore-diff-image</td>
<td>If this image differs from the currently programmed image, this option skips user interaction and continues update process.</td>
</tr>
<tr>
<td>-isi, -ignore-same-image</td>
<td>If this image is same as the currently programmed image, this option skips user interaction and continues update process.</td>
</tr>
<tr>
<td>-iml, -ignore-module-location</td>
<td>If module(s) of this image is/are in different locations, this option skips user interaction and continues update process.</td>
</tr>
<tr>
<td>-ibv, -ignore-boot-version</td>
<td>If bootloader version is different and -force-boot is not specified, this option skips user interaction and continues update process. The bootloader will be updated.</td>
</tr>
<tr>
<td>-iri, -ignore-reselect-image</td>
<td>Option skips reselecting the active image.</td>
</tr>
<tr>
<td>-inc, -ignore-non-preserve-config</td>
<td>Option skips the restore to default factor setting if the image shares the same configuration area.</td>
</tr>
<tr>
<td>-mse, -img-select</td>
<td>Option to specify the Image to be updated</td>
</tr>
<tr>
<td>-pXXX, -preserve-XXX</td>
<td>Option to preserve XXX configuration, where XXX falls in sdr, fru, sel, ipmi, auth, net, ntp, snmp,</td>
</tr>
<tr>
<td>Option</td>
<td>Description</td>
</tr>
<tr>
<td>--------</td>
<td>-------------</td>
</tr>
<tr>
<td><code>-ieo,-ignore-existing-overrides</code></td>
<td>Clears the existing overrides and preserves only the overrides given in command line if any.</td>
</tr>
<tr>
<td><code>-msp,-split-img</code></td>
<td>Option to flash the split image.</td>
</tr>
<tr>
<td><code>-f-XXX,-flash-XXX</code></td>
<td>Option to flash specific section in non-interactivemode. If it is split image need to give split-image along with this option, where XXX denotes name of the section, e.g. <code>-flash-conf</code>.</td>
</tr>
<tr>
<td><code>-sc,-skip-crc</code></td>
<td>Option to skip the CRC check.</td>
</tr>
<tr>
<td><code>-sf,-skip-fmh</code></td>
<td>Option to skip the FMH check.</td>
</tr>
<tr>
<td><code>-d</code></td>
<td>Option to specify the peripheral(Only for Dual Image Support)</td>
</tr>
<tr>
<td><code>&lt;bit0&gt;</code></td>
<td>- BMC</td>
</tr>
<tr>
<td><code>&lt;bit1&gt;</code></td>
<td>- BIOS</td>
</tr>
<tr>
<td><code>&lt;bit2&gt;</code></td>
<td>- CPLD</td>
</tr>
<tr>
<td><code>&lt;BIT4&gt;</code></td>
<td>- ME</td>
</tr>
<tr>
<td><code>-a,-activate</code></td>
<td>Option to activate peripheral devices</td>
</tr>
<tr>
<td><code>&lt;BIT0&gt;</code></td>
<td>- BMC</td>
</tr>
<tr>
<td><code>&lt;BIT1&gt;</code></td>
<td>- BIOS</td>
</tr>
<tr>
<td><code>&lt;BIT2&gt;</code></td>
<td>- CPLD</td>
</tr>
<tr>
<td><code>-nr,-no-reboot</code></td>
<td>Option to skip the reboot. With online-flash support, if conf/extlog is not preserved, BMC will still reboot.</td>
</tr>
<tr>
<td><code>-bu,-block-upgrade</code></td>
<td>Option to Flash using Block by Block method.</td>
</tr>
<tr>
<td><code>-netfn &lt;NETFN&gt;</code></td>
<td>Option to specify AMI OEM Net Function (default 0x32)</td>
</tr>
</tbody>
</table>

**[MEDIUM]**

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>-cd</code></td>
<td>Option to use USB Medium</td>
</tr>
<tr>
<td><code>-nw,-ip,-u,-p,-host,_p</code></td>
<td>Option to use Network Medium</td>
</tr>
<tr>
<td><code>'-ip'</code></td>
<td>Option to enter IP, when using Network Medium</td>
</tr>
<tr>
<td><code>'-host'</code></td>
<td>Option to enter host name, When using Network Medium</td>
</tr>
<tr>
<td><code>'-u'</code></td>
<td>Option to enter UserName, When using Network Medium</td>
</tr>
</tbody>
</table>
Option to enter Password, When using Network Medium. 
_p_ Option to enter Port Number.

-kcs Option to use KCS medium.

-serial Option to use serial interface.

-term Option to use serial command, e.g. /dev/ttyS0.

-baudrate Option to use baudrate of the serial terminal, e.g. 115200.

[FW_IMAGE_FILE] Firmware image file name [rom.ima].

-pe,-preserve-extlog Option to preserve extlog configuration during firmware flash.

Note: ‘-preserve-config’ and ‘-force-boot’ option not be used in interactive upgrade

Examples for Network Medium

Eg1: ./Yafuflash -nw -ip 155.166.132.12 -u admin -p admin rom.ima -info

Description: This command works with network medium using the ip 155.166.132.12, which displays the details of both existing firmware and new firmware.

Eg2: ./Yafuflash -nw -ip 155.166.132.12 -u admin -p admin rom.ima

Description: This command works with network medium using the ip 155.166.132.12, which start to flash the new rom.ima to the existing firmware.

Eg3: ./Yafuflash -nw -ip 155.166.132.12 -u admin -p admin rom.ima -force-boot

Description: This command works with network medium using the ip 155.166.132.12, which start to flash the new rom.ima to the existing firmware with FORCE BootLoader Upgrade.

Eg4: ./Yafuflash -nw -ip 155.166.132.12 -u admin -p admin rom.ima -preserve-config

Description: This command works with network medium using the ip 155.166.132.12, which start to flash the new rom.ima to the existing firmware with preserve config params.

Eg5: ./Yafuflash -nw -ip 155.166.132.12 -u admin -p admin rom.ima -force-boot -preserve-config

Description: This command works with network medium using the ip 155.166.132.12, which start to flash the new rom.ima to the existing firmware with FORCE BootLoader Upgrade and preserve config params.

Eg6: ./Yafuflash -nw -host spxbmc -force-boot -preserve-config rom.ima

Description: This command works with network medium using the host name spxbmc, which start to flash the new rom.ima to the existing firmware with FORCE BootLoader Upgrade and preserve config params.

Eg7: ./Yafuflash -nw -ip 2000::2005 -force-boot rom.ima

Description: This command works with network medium using the ipv6 address 2000::2005,
which start to flash the new rom.ima to the existing firmware with FORCE BootLoader Upgrade.

**Eg8:** ./Yafuflash –nw –ip 155.166.132.12 rom.ima -i

**Description:** This command works with network medium using the ip 155.166.132.12, which start to flash the new rom.ima using interactive upgrade mode and user will be prompt to select the Number of modules and module names to upgrade.

**Eg9:** ./Yafuflash –nw –ip 155.166.132.12 –u admin –p admin -img-section-info

**Description:** This command works with network medium using the ip 155.166.132.12, which displays the details of Existing Firmware.

**Eg10:** ./Yafuflash –nw –ip 155.166.132.12 –u admin –p admin -img-info

**Description:** This command works with network medium using the ip 155.166.132.12, which displays the details of existing firmware Version.

**Eg11:** ./Yafuflash –nw –ip 155.166.132.12 –u admin –p admin public.pem –replace-publickey

**Description:** This command works with network medium using the ip 155.166.132.12, which replaces the public key in firmware.

**Eg12:** ./Yafuflash -nw -ip 155.166.132.12 rom.ima -preserve-sdr

**Description:** This command works with network medium using the ip 155.166.132.12, which will ask for other configurations which are already set to be preserved to preserve or not and after that it will start to flash the new rom.ima to the existing firmware with preserving SDR as well as selected configurations.

**Eg13:** ./Yafuflash -nw -ip 155.166.132.12 rom.ima -preserve-snmp -preserve-ntp

**Description:** This command works with network medium using the ip 155.166.132.12, which will ask for other configurations which are already set to be preserved to preserve or not and after that it will start to flash the new rom.ima to the existing firmware with preserving SNMP and NTP as well as selected configurations.

**Eg14:** ./Yafuflash -nw -ip 155.166.132.12 rom.ima -preserve-fru -ignore-existing-overrides

**Description:** This command works with network medium using the ip 155.166.132.12, which starts to flash the new rom.ima to the existing firmware with preserving FRU configurations only.

**Eg15:** ./Yafuflash -nw -ip 155.166.132.12 rom.ima -preserve-fru -preserve-snmp -ignore-existing-overrides

**Description:** This command works with network medium using the ip 155.166.132.12, which starts to flash the new rom.ima to the existing firmware with preserving FRU and SNMP configurations only.

**Eg16:** ./Yafuflash –nw –ip 155.166.132.12 –u admin –p admin rom.ima –ignore-reselect-image

**Description:** Yafuflash start full firmware upgrade with default active image. In this it skips the reselecting active image used to flash.

**Eg17:** ./Yafuflash –nw –ip 155.166.132.12 –u admin –p admin rom.ima –ignore-non-preserve-config

**Description:** Yafuflash start full firmware upgrade, If the Images of both flash share the same Configuration area. Not preserving will restore to default factory settings, this option skips it

**Eg18:** ./Yafuflash –nw –ip 155.166.132.12 –u admin –p admin –img-select 0 rom.ima

**Description:** This command works with network medium using the ip 155.166.132.12, which
starts to flash the new rom.ima to the existing firmware by selecting the active image to be flashed.

**Eg19:** ./Yafuflash –nw –ip 155.166.166.32.12 –u admin –p admin –img-select 1 rom.ima

**Description:** This command works with network medium using the ip 155.166.132.12, which starts to flash the new rom.ima to the existing firmware by selecting the first image to be flashed.

**Eg20:** ./Yafuflash –nw –ip 155.166.166.32.12 –u admin –p admin –img-select 2 rom.ima

**Description:** This command works with network medium using the ip 155.166.132.12, which starts to flash the new rom.ima to the existing firmware by selecting the second image to be flashed.

**Eg21:** ./Yafuflash –nw –ip 155.166.166.32.12 –u admin –p admin –img-select 3 rom.ima

**Description:** This command works with network medium using the ip 155.166.132.12, which starts to flash the new rom.ima to the existing firmware by selecting both the images to be flashed.

**Eg22:** ./Yafuflash –nw –ip 155.166.132.12 rom.ima -quite

**Description:** This command works with network medium using the ip 155.166.132.12, which start to flash the new rom.ima with minimum progress details.

**Eg23:** ./Yafuflash –nw –ip 155.166.132.12 –u admin –p admin –split-img boot.ima

**Description:** This command works with network medium to flash the boot split image.

**Eg24:** ./Yafuflash –nw –ip 155.166.132.12 –u admin –p admin –split-img root.ima

**Description:** This command works with network medium to flash the root split image.

**Eg25:** ./Yafuflash –nw –ip 155.166.132.12 –u admin –p admin rom.ima –flash-root –flash-conf

**Description:** This command works with network medium to flash root and conf section from rom.ima file. -flash-<xxx>, where xxx specifies the modules in rom.ima.

**Eg26:** ./Yafuflash –nw –ip 155.166.132.12 –u admin –p admin boot.ima -split-img –flash-boot

**Description:** This command works with network medium to flash root from boot.ima split image. -flash-<xxx>, where xxx specifies the modules in boot.ima.

**Eg27:** ./Yafuflash –nw –ip 155.166.132.12 –u admin –p admin root.ima -split-img –flash-www – flash-osimage

**Description:** This command works with network medium to flash www and osimage from root.ima split image. -flash-<xxx>, where xxx specifies the modules in root.ima.

**Eg28:** ./Yafuflash –nw –ip 155.166.132.12 –u admin –p admin rom.ima -preserve-extlog

**Description:** This command works with network medium to preserve extended log configuration.

**Eg29:** ./Yafuflash –nw –ip 155.166.132.12 –u admin –p admin root.ima –split-img -preserve-extlog

**Description:** This command works with network medium to preserve extended log configuration from split image.

**Eg30:** ./Yafuflash –nw –ip 155.166.132.12 –u admin –p admin root.ima –d 1 rom.ima

**Description:** This command works with network medium to flash the image on specific peripheral device.
Eg31: `./Yafluash -nw -ip 155.166.132.12 -u admin -p admin root.ima -d 1 root.ima -split-img`

**Description:** This command works with network medium to flash the split image on specific peripheral device.

Eg32: `./Yafluash -nw -ip 155.166.132.12 -u admin -p admin -bu root.ima`

**Description:** This command works with network medium to flash the image on specific peripheral device by block by block upgrade.

---

**Screen:** If Existing and current images are same

```bash
[...]
```

---

**FG: 2 - Existing and current are different**

```bash
[...]
```

---
FG: 3 - Interactive Upgrade Mode

Eg 33: ./Yafuflash -nw -ip 155.166.132.12 –u admin –p admin rom.ima –netfn 0x36

Description: This command works with network medium to flash the image using 0x36 as AMI OEM Net Function instead of default AMI OEM Netfn 0x32.
Examples for USB Medium

Power Save Mode should be disabled for Flashing with Yafu USB Interface.

**Eg1:** ./Yafuflash –cd rom.ima –info

**Description:** This command works with USB medium which displays the details of both Existing Firmware and new firmware.

**Eg2:** ./Yafuflash –cd rom.ima

**Description:** This command works with USB medium which start to flash the new rom.ima to the existing firmware.

**Eg3:** ./Yafuflash –cd rom.ima –force-boot

**Description:** This command works with USB medium which start to flash the new rom.ima to the existing firmware with FORCE BootLoader Upgrade.

**Eg4:** ./Yafuflash –cd rom.ima –preserve-config

**Description:** This command works with USB medium which start to flash the new rom.ima to the existing firmware with preserving config params.

**Eg5:** ./Yafuflash –cd rom.ima –force-boot –preserve-config

**Description:** This command works with USB medium which start to flash the new rom.ima to the existing firmware with FORCE BootLoader Upgrade and preserving config params.

**Eg6:** ./Yafuflash –cd rom.ima -i

**Description:** This command works with USB medium, which start to flash the new rom.ima using interactive upgrade mode and user, will be prompt to select the number of modules and module names to upgrade.

**Eg7:** ./Yafuflash –cd -img-section-info

**Description:** This command works with USB medium which displays the details of Existing Firmware.

**Eg8:** ./Yafuflash –cd -img-info

**Description:** This command works with USB medium which displays the details of Existing Firmware Version.

**Eg9:** ./Yafuflash –cd public.pem –replace-publickey

**Description:** This command works with USB medium which replaces the public key in Existing Firmware.

**Eg10:** ./Yafuflash -cd rom.ima -preserve-sel -preserve-ipmi
**Description:** This command works with USB medium, which will ask for other configurations which are already set to be preserved to preserve or not and after that it will start to flash the new rom.ima to the existing firmware with preserving SEL and IPMI as well as selected configurations.

**Eg11:** ./Yafuflash -cd rom.ima -preserve-sel -ignore-existing-overrides

**Description:** This command works with USB medium, which start to flash the new rom.ima to the existing firmware with preserving FRU configurations only

**Eg12:** ./Yafuflash -cd rom.ima --ignore-reselect-image

**Description:** Yafuflash start full firmware upgrade with default active image. In this it skips the reselecting active image used to flash.

**Eg13:** ./Yafuflash -cd rom.ima --ignore-non-preserve-config

**Description:** Yafuflash start full firmware upgrade, If the Images of both flash share the same Configuration area. Not preserving will restore to default factory settings, this option skips it.

**Eg14:** ./Yafuflash -cd -img-select 0 rom.ima

**Description:** This command works with USB medium, which starts to flash the new rom.ima to the existing firmware by selecting the active image to be flashed.

**Eg15:** ./Yafuflash -cd -img-select 1 rom.ima

**Description:** This command works with USB medium, which starts to flash the new rom.ima to the existing firmware by selecting the first image to be flashed.

**Eg16:** ./Yafuflash -cd -img-select 2 rom.ima

**Description:** This command works with USB medium, which starts to flash the new rom.ima to the existing firmware by selecting the second image to be flashed.

**Eg17:** ./Yafuflash -cd -img-select 3 rom.ima

**Description:** This command works with USB medium, which starts to flash the new rom.ima to the existing firmware by selecting both the images to be flashed.

**Eg18:** ./Yafuflash -cd rom.ima -quite

**Description:** This command works with USB medium, which start to flash the new rom.ima with minimum progress details.

**Eg19:** ./Yafuflash -cd -split-img boot.ima

**Description:** This command works with USB medium to flash the boot split image.

**Eg20:** ./Yafuflash -cd -split-img root.ima

**Description:** This command works with USB medium to flash the root split image.

**Eg21:** ./Yafuflash -cd rom.ima -flash-root -flash-conf

**Description:** This command works with USB medium to flash root and conf section from rom.ima file. -flash-<c.xx>, where xxx specifies the modules in rom.ima.

**Eg22:** ./Yafuflash -cd boot.ima -split-img -flash-boot

**Description:** This command works with USB medium to flash root from boot.ima split image.
-flash-<xxx>, where xxx specifies the modules in boot.ima.

**Eg23:** ./Yafuflash –cd root.ima -split-img –flash-www –flash-osimage

**Description:** This command works with USB medium to flash www and osimage from root.ima split image. –flash-<xxx>, where xxx specifies the modules in root.ima

**Eg24:** ./Yafuflash –cd root.ima –split-img –flash

**Description:** This command works with USB medium to flash www and osimage from root.ima split image.

**Eg25:** ./Yafuflash –cd root.ima –split-img –preserve-extlog

**Description:** This command works with USB medium to preserve extended log configuration.

**Eg26:** ./Yafuflash –cd root.ima –d 1 rom ima

**Description:** This command works with USB medium to flash the image on specific peripheral device.

**Eg27:** ./Yafuflash –cd root.ima –d 1 root.ima –split-img

**Description:** This command works with USB medium to flash the split image on specific peripheral device.

**Eg28:** ./Yafuflash –cd rom.ima -netfn 0x36

**Description:** This command works with USB medium to flash the image using 0x36 as AMI OEM Net Function instead of default AMI OEM Netfn 0x32.

### Examples for KCS Medium

**Eg1:** ./Yafuflash –kcs rom.ima –info

**Description:** This command works with KCS medium which displays the details of both Existing Firmware and new firmware.

**Eg2:** ./Yafuflash –kcs rom.ima

**Description:** This command works with KCS medium which start to flash the new rom.ima to the existing firmware.

**Eg3:** ./Yafuflash –kcs rom.ima –force-boot

**Description:** This command works with KCS medium which start to flash the new rom.ima to the existing firmware with FORCE BootLoader Upgrade.

**Eg4:** ./Yafuflash –kcs rom.ima –preserve-config

**Description:** This command works with KCS medium which start to flash the new rom.ima to the existing firmware with preserving config params.

**Eg5:** ./Yafuflash –kcs rom.ima –force-boot –preserve-config

**Description:** This command works with KCS medium which start to flash the new rom.ima to the existing firmware with FORCE BootLoader Upgrade and preserving config params.
Eg6: ./Yafuflash –kcs rom.ima -i

**Description:** This command works with KCS medium, which start to flash the new rom.ima using interactive upgrade mode and user, will be prompt to select the Number of modules and module names to upgrade.

Eg7: ./Yafuflash –kcs -img-section-info

**Description:** This command works with KCS medium which displays the details of Existing Firmware.

Eg8: ./Yafuflash –kcs -img-info

**Description:** This command works with KCS medium which displays the details of Existing Firmware Version.

Eg9: ./Yafuflash –kcs public.pem –replace-publickey

**Description:** This command works with KCS medium which replaces the public key in Existing Firmware.

Eg10: ./Yafuflash -kcs rom.ima -preserve-sel -preserve-ipmi

**Description:** This command works with KCS medium, which will ask for other configurations which are already set to be preserved to preserve or not and after that it will start to flash the new rom.ima to the existing firmware with preserving SEL and IPMI as well as selected configurations.

Eg11: ./Yafuflash -kcs rom.ima -preserve-sel -ignore-existing-overrides

**Description:** This command works with KCS medium, which start to flash the new rom.ima to the existing firmware with preserving FRU configurations only

Eg12: ./Yafuflash –kcs rom.ima –ignore-reselect-image

**Description:** Yafuflash start full firmware upgrade with default active image. In this it skips the reselecting active image used to flash.

Eg13: ./Yafuflash –kcs rom.ima –ignore-non-preserve-config

**Description:** Yafuflash start full firmware upgrade, If the Images of both flash share the same Configuration area. Not preserving will restore to default factory settings, this option skips it

Eg14: ./Yafuflash -kcs –img-select 0 rom.ima

**Description:** This command starts to flash the new rom.ima to the existing firmware by selecting the active image to be flashed.

Eg15: ./Yafuflash -kcs –img-select 1 rom.ima

**Description:** This command starts to flash the new rom.ima to the existing firmware by selecting the first image to be flashed.

Eg16: ./Yafuflash -kcs –img-select 2 rom.ima

**Description:** This command starts to flash the new rom.ima to the existing firmware by selecting the second image to be flashed.

Eg17: ./Yafuflash -kcs –img-select 3 rom.ima

**Description:** This command starts to flash the new rom.ima to the existing firmware by selecting both the images to be flashed.
**Eg18**: ./Yafuflash –kcs rom.ima -quite

**Description**: This command works with KCS medium, which start to flash the new rom.ima with minimum progress details.

**Eg19**: ./Yafuflash –kcs –split-img boot.ima

**Description**: This command works with KCS medium to flash the boot split image.

**Eg20**: ./Yafuflash –kcs –split-img root.ima

**Description**: This command works with KCS medium to flash the root split image.

**Eg21**: ./Yafuflash –kcs rom.ima –flash-root –flash-conf

**Description**: This command works with KCS medium to flash root and conf section from rom.ima file. -flash-<xxx>, where xxx specifies the modules in rom.ima.

**Eg22**: ./Yafuflash –kcs boot.ima -split-img –flash-boot

**Description**: This command works with KCS medium to flash root from boot.ima split image. -flash-<xxx>, where xxx specifies the modules in boot.ima.

**Eg23**: ./Yafuflash–kcs root.ima -split-img –flash-www –flash-osimage

**Description**: This command works with KCS medium to flash www and osimage from root.ima split image. -flash-<xxx>, where xxx specifies the modules in root.ima.

**Eg24**: ./Yafuflash –kcs rom.ima -preserve-extlog

**Description**: This command works with KCS medium to preserve extended log configuration.

**Eg25**: ./Yafuflash –kcs root.ima –split-img -preserve-extlog

**Description**: This command works with KCS medium to preserve extended log configuration from split image.

**Eg26**: ./Yafuflash –kcs root.ima –d 1 rom.ima

**Description**: This command works with KCS medium to flash the image on specific peripheral device.

**Eg27**: ./Yafuflash –kcs root.ima –d 1 root.ima –split-img

**Description**: This command works with KCS medium to flash the split image on specific peripheral device.

**Eg28**: ./Yafuflash –kcs rom.ima –netfn 0x36

**Description**: This command works with KCS medium to flash the image using 0x36 as AMI OEM Net Function instead of default AMI OEM Netfn 0x32.