Data General

DG-S1930K Upgrade Operation Guide

1. Upgrade via Uboot

During the device restart process， press “ctrl+c” then select “0”

```
U-Boot 3.6.2 (Jun 06 2023 - 10:04:44)

Board: RTL838x CPU:500MHz LXB:200MHz MEM:300MHz
DRAM:  256 MB
SPI-F: OK(ID c2201a)
Loading 65536B env. variables from offset 0x200000
SF: Detected with page size 256 Bytes, erase size 64 KB
SF: Detected with page size 256 Bytes, erase size 64 KB
Net:   Net Initialization Skipped
No ethernet found.
SF: Detected with page size 256 Bytes, erase size 64 KB
SETMAC: Setmac operation was performed at 2025-03-17 16:24:57 (version: 11.0)
Press Ctrl+C to enter Boot Menu:  0
Entering simple UI....


====== BootLoader Menu("Ctrl+Z" to upper level) ======
    TOP menu items.
************************************************
    0. Tftp utilities.
    1. XModem utilities.
    2. Run main.
    3. SetMac utilities.
    4. Scattered utilities.
************************************************
Press a key to run the command: 0
```

then select “1”

```
Press a key to run the command: 0

====== BootLoader Menu("Ctrl+Z" to upper level) ======
    Tftp utilities.
****************************************************
    0. Upgrade bootloader.
    1. Upgrade kernel and rootfs by install package.
    2. Down to memory and jump to run.
****************************************************
Press a key to run the command: 1
```

Keep the pc and the device on the same network segment, and enable the tftp server on the pc, then enter “the local ip”,means device ip address; enter “the remote ip”,means pc ip address; enter“the filename”, S1930K_DGOS11.4(1)B70P18S1_12151903_middle.bin

```
====== BootLoader Menu("Ctrl+Z" to upper level) ======
    Tftp utilities.
********************************************
    0. Upgrade bootloader.
    1. Upgrade kernel and rootfs by install package.
    2. Down to memory and jump to run.
********************************************
Press a key to run the command: 1
Plz enter the Local IP:[192.168.3.100]:
Plz enter the Remote IP:[192.168.3.7]:
Plz enter the Filename:[XS1930J_RGOS11.4(1)B70P18_10201612_install.bin]: S1930K_DGOS11.4(1)B70P18S1_12151903_install.bin
SF: Detected with page size 256 Bytes, erase size 64 KB
```

Then select “Y” and then begin to upgrade

```
Incorrect device type in kernel
Determined to upgrade? [Y/N]: y
```

After upgrade， press“ctrl+z”

```
Erasing SPI flash...#Writing to SPI flash...done

SUCCESS: UPGRADING OK.


====== BootLoader Menu("Ctrl+Z" to upper level) ======
    Tftp utilities.
**************************************************
    0. Upgrade bootloader.
    1. Upgrade kernel and rootfs by install package.
    2. Down to memory and jump to run.
**************************************************
Press a key to run the command:
```

```
====== BootLoader Menu("Ctrl+Z" to upper level) ======
    TOP menu items.
**************************************************
    0. Tftp utilities.
    1. XModem utilities.
    2. Run main.
    3. SetMac utilities.
    4. Scattered utilities.
**************************************************
Press a key to run the command:
```

Then slecet 2, device bengin to reload, after reload finished, show version detail

```
1930K>show version detail
System description      : Data General Gigabit Ethernet Switch with PoE(DG-S1930K-8GP2S-120W) By Data General
System start time       : 1970-01-01 00:59:59
System uptime           : 0:00:02:20
System hardware version : 1.00
System software version : S1930K_DGOS 11.4(1)B70P18S1, Release(12151903)
System patch number     : NA
System software number  : M03420803192025
System serial number    : 1234942570071
System boot version     : 3.6.2(700101)
System core version     : 3.10.18.93e51c098385d0
Module information:
  Slot 0 : DG-S1930K-8GP2S-120W
    Hardware version    : 1.00
    Boot version        : 3.6
    Software version    : S1930K_DGOS 11.4(1)B70P18S1, Release(12151903)
    Software number     : M03420803192025
    Serial number       : 1234942570071
```

Then we upgrade the final software file with cli. Use command to upgrade with tftp: “upgrade download tftp://XXXX(pc ip)/ S1930K_DGOS11.4(1)B70P18S1_12151821_install.bin

And then device reload auto.

```
1930K#$92.168.3.7/S1930K_DGOS11.4(1)B70P18S1_12151821_install.bin
Upgrade the device may be auto-reset after finish, are you sure upgrading now?[Y/N]y
Please wait for a moment......
% Upgrade immediately, the upgrade process will take about five minutes and may be restart.
Press Ctrl+C to quit
!!!!!!!!!!!!!!!!!*Jan  1 01:12:50: %7:

*Jan  1 01:12:50: %7: Begin to upgrade the install package S1930K_DGOS11.4(1)B70P18S1_12151821_install.bin...
*Jan  1 01:12:51: %7: Upgrade processing is 10%
[RG-UPGRADE]: Uncompress file S1930K_DGOS11.4(1)B70P18S1_12151821_install.bin ........
[RG-UPGRADE]: pacakage decompress in the path: /tmp/vsd/0/upgrade_ram
[RG-UPGRADE]: Uncompress successfully.
Change ubi to ro mode...
Change ubi to ro mode...
[RG-UPGRADE]: Upgrade processing

U-Boot 3.6.2_123e3419 (Mar 18 2025 - 09:16:04)

Board: RTL838x CPU:500MHz LXB:200MHz MEM:300MHz
DRAM:  256 MB
SPI-F: OK(ID c2201a)
Loading 65536B env. variables from offset 0x200000
SF: Detected with page size 256 Bytes, erase size 64 KB
SF: Detected with page size 256 Bytes, erase size 64 KB
Net:   Net Initialization Skipped
No ethernet found.
SF: Detected with page size 256 Bytes, erase size 64 KB
SETMAC: Setmac operation was performed at 2025-03-17 16:24:57 (version: 11.0)
Press Ctrl+C to enter Boot Menu:  0
boardmodel: RTL8383M_DEMO
Creating 1 MTD partitions on "nor0":
0x000000300000-0x000003c00000 : "mtd=5"
UBI: attaching mtd1 to ubi0
UBI: physical eraseblock size:   65536 bytes (64 KiB)
UBI: logical eraseblock size:    65408 bytes
UBI: smallest flash I/O unit:    1
UBI: VID header offset:          64 (aligned 64)
UBI: data offset:                128
##########################################################################################################################
##########################################################################################################################
##########################################################################################UBI: attached mtd1 to ubi0
UBI: MTD device name:            "mtd=5"
UBI: MTD device size:            57 MiB
UBI: number of good PEBs:        912
UBI: number of bad PEBs:         0
UBI: max. allowed volumes:       128
UBI: wear-leveling threshold:    4096
UBI: number of internal volumes: 1
UBI: number of user volumes:     1
UBI: available PEBs:             0
UBI: total number of reserved PEBs: 912
UBI: number of PEBs reserved for bad PEB handling: 0
UBI: max/mean erase counter: 1/0
UBIFS: replay LEB buds
```

after reload finished, show version detail

```
1930K>show version detail
System description      : Data General Gigabit Ethernet Switch with PoE(DG-S1930K-8GP2S-120W) By Data General
System start time       : 1970-01-01 00:59:59
System uptime           : 0:00:03:15
System hardware version : 1.00
System software version : S1930K_DGOS 11.4(1)B70P18S1, Release(12151821)
System patch number     : NA
System software number  : M21350403182025
System serial number    : 1234942570071
System boot version     : 3.6.2_123e3419(700101)
System core version     : 3.10.18.93e51c098385d0
Module information:
  Slot 0 : DG-S1930K-8GP2S-120W
    Hardware version    : 1.00
    Boot version        : 3.6
    Software version    : S1930K_DGOS 11.4(1)B70P18S1, Release(12151821)
    Software number     : M21350403182025
    Serial number       : 1234942570071
```

Check the boot version, changed from 3.6.2(700101) to 3.6.2_123e3419(700101).

2. Upgrade via CLI

Let's check the old version first. Use the command ： show version detail

```
1930K#show version detail
System description      : Data General Gigabit Ethernet Switch with PoE(DG-S1930K-8GP2S-120W) By Data General
System start time       : 1970-01-01 00:59:59
System uptime           : 0:00:01:35
System hardware version : V1
System software version : S1930K_DGOS 11.4(1)B70P18S1, Release(10180910)
System patch number     : NA
System software number  : M10251406092023
System serial number    : 1234942570071
System boot version     : 3.6.2(700101)
System core version     : 3.10.18.93e51c02e13dca
Module information:
  Slot 0 : DG-S1930K-8GP2S-120W
    Hardware version    : V1
    Boot version        : 3.6
    Software version    : S1930K_DGOS 11.4(1)B70P18S1, Release(10180910)
    Software number     : M10251406092023
    Serial number       : 1234942570071
```

Then we upgrade the first software file with cli. Use command to upgrade with tftp: “upgrade download tftp://XXXX(pc ip)/ S1930K_DGOS11.4(1)B70P18S1_12151903_middle.bin

And then device reload auto.

```
1930K#$9Z.168.3.7/S1930K_DGOS11.4(1)B70P18S1_12151821_install.bin
Upgrade the device may be auto-reset after finish, are you sure upgrading now?[Y/N]y
Please wait for a moment......
% Upgrade immediately, the upgrade process will take about five minutes and may be restart.
Press Ctrl+C to quit
!!!!!!!!!!!!!!!!*Jan  1 01:12:50: %7:

*Jan  1 01:12:50: %7: Begin to upgrade the install package S1930K_DGOS11.4(1)B70P18S1_12151821_install.bin...
*Jan  1 01:12:51: %7: Upgrade processing is 10%
[RG-UPGRADE]: Uncompress file S1930K_DGOS11.4(1)B70P18S1_12151821_install.bin ........
[RG-UPGRADE]: pacakage decompress in the path: /tmp/vsd/0/upgrade_ram
[RG-UPGRADE]: Uncompress successfully.
Change ubi to ro mode...
Change ubi to ro mode...
[RG-UPGRADE]: Upgrade processing

U-Boot 3.6.2_123e3419 (Mar 18 2025 - 09:16:04)

Board: RTL838x CPU:500MHz LXB:200MHz MEM:300MHz
DRAM:  256 MB
SPI-F: OK(ID c2201a)
Loading 65536B env. variables from offset 0x200000
SF: Detected with page size 256 Bytes, erase size 64 KB
SF: Detected with page size 256 Bytes, erase size 64 KB
Net:   Net Initialization Skipped
No ethernet found.
SF: Detected with page size 256 Bytes, erase size 64 KB
SETMAC: Setmac operation was performed at 2025-03-17 16:24:57 (version: 11.0)
Press Ctrl+C to enter Boot Menu:  0
boardmodel: RTL8383M_DEMO
Creating 1 MTD partitions on "nor0":
0x000000300000-0x000003c00000 : "mtd=5"
UBI: attaching mtd1 to ubi0
UBI: physical eraseblock size:   65536 bytes (64 KiB)
UBI: logical eraseblock size:    65408 bytes
UBI: smallest flash I/O unit:    1
UBI: VID header offset:          64 (aligned 64)
UBI: data offset:                128
################################################################################################################
################################################################################################################
################################################################################UBI: attached mtd1 to ubi0
UBI: MTD device name:            "mtd=5"
UBI: MTD device size:            57 MiB
UBI: number of good PEBs:        912
UBI: number of bad PEBs:         0
UBI: max. allowed volumes:       128
UBI: wear-leveling threshold:    4096
UBI: number of internal volumes: 1
UBI: number of user volumes:     1
UBI: available PEBs:             0
UBI: total number of reserved PEBs: 912
UBI: number of PEBs reserved for bad PEB handling: 0
UBI: max/mean erase counter: 1/0
UBIFS: replay LEB buds
```

after reload finished, show version detail

```
1930K>show version detail
System description      : Data General Gigabit Ethernet Switch with PoE(DG-S1930K-8GP2S-120W) By Data General
System start time       : 1970-01-01 00:59:59
System uptime           : 0:00:02:20
System hardware version : 1.00
System software version : S1930K_DGOS 11.4(1)B70P18S1, Release(12151903)
System patch number     : NA
System software number  : M03420803192025
System serial number    : 1234942570071
System boot version     : 3.6.2(700101)
System core version     : 3.10.18.93e51c098385d0
Module information:
  Slot 0 : DG-S1930K-8GP2S-120W
    Hardware version    : 1.00
    Boot version        : 3.6
    Software version    : S1930K_DGOS 11.4(1)B70P18S1, Release(12151903)
    Software number     : M03420803192025
    Serial number       : 1234942570071
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Then we upgrade the final software file with cli. Use command to upgrade with tftp: “upgrade download tftp://XXXX(pc ip)/ S1930K_DGOS11.4(1)B70P18S1_12151821_install.bin

And then device reload auto.

```
1930K#$92.168.3.7/S1930K_DGOS11.4(1)B70P18S1_12151821_install.bin
Upgrade the device may be auto-reset after finish, are you sure upgrading now?[Y/N]y
Please wait for a moment......
% Upgrade immediately, the upgrade process will take about five minutes and may be restart.
Press Ctrl+C to quit
!!!!!!!!!!!!!!!!*Jan  1 01:12:50: %7:

*Jan  1 01:12:50: %7: Begin to upgrade the install package S1930K_DGOS11.4(1)B70P18S1_12151821_install.bin...
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[RG-UPGRADE]: Uncompress file S1930K_DGOS11.4(1)B70P18S1_12151821_install.bin ........
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[RG-UPGRADE]: Uncompress successfully.
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Board: RTL838x CPU:500MHz LXB:200MHz MEM:300MHz
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UBI: VID header offset:          64 (aligned 64)
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UBI: number of internal volumes: 1
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UBI: available PEBs:             0
UBI: total number of reserved PEBs: 912
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UBI: max/mean erase counter: 1/0
UBIFS: replay LEB buds
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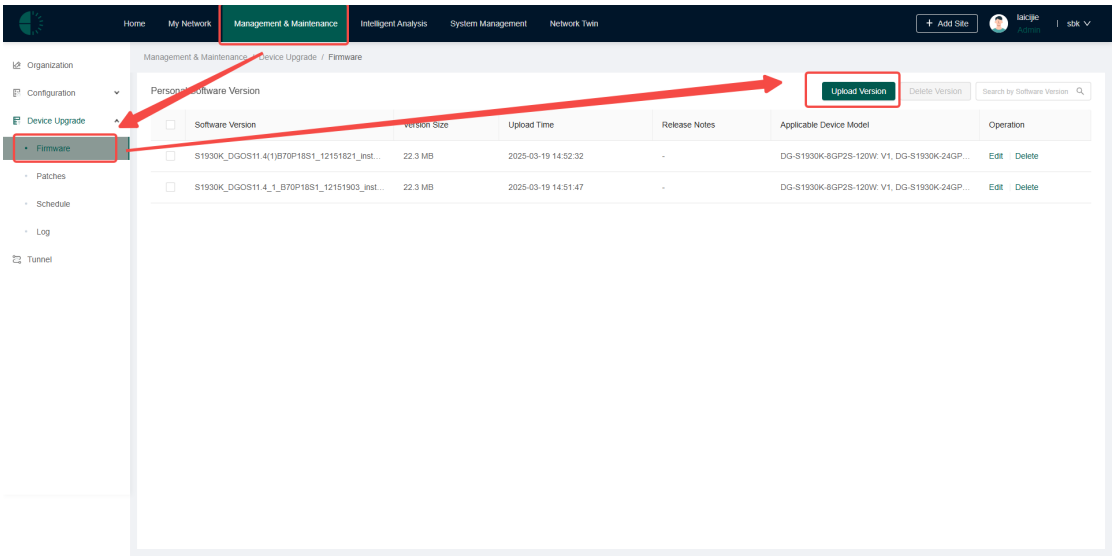
after reload finished, show version detail

```
1930K>show version detail
System description      : Data General Gigabit Ethernet Switch with PoE(DG-S1930K-8GP2S-120W) By Data General
System start time       : 1970-01-01 00:59:59
System uptime           : 0:00:03:15
System hardware version : 1.00
System software version : S1930K_DGOS 11.4(1)B70P18S1, Release(12151821)
System patch number     : NA
System software number  : M21350403182025
System serial number    : 1234942570071
System boot version     : 3.6.2_123e3419(700101)
System core version     : 3.10.18.93e51c098385d0
Module information:
  Slot 0 : DG-S1930K-8GP2S-120W
    Hardware version    : 1.00
    Boot version        : 3.6
    Software version    : S1930K_DGOS 11.4(1)B70P18S1, Release(12151821)
    Software number     : M21350403182025
    Serial number       : 1234942570071
```

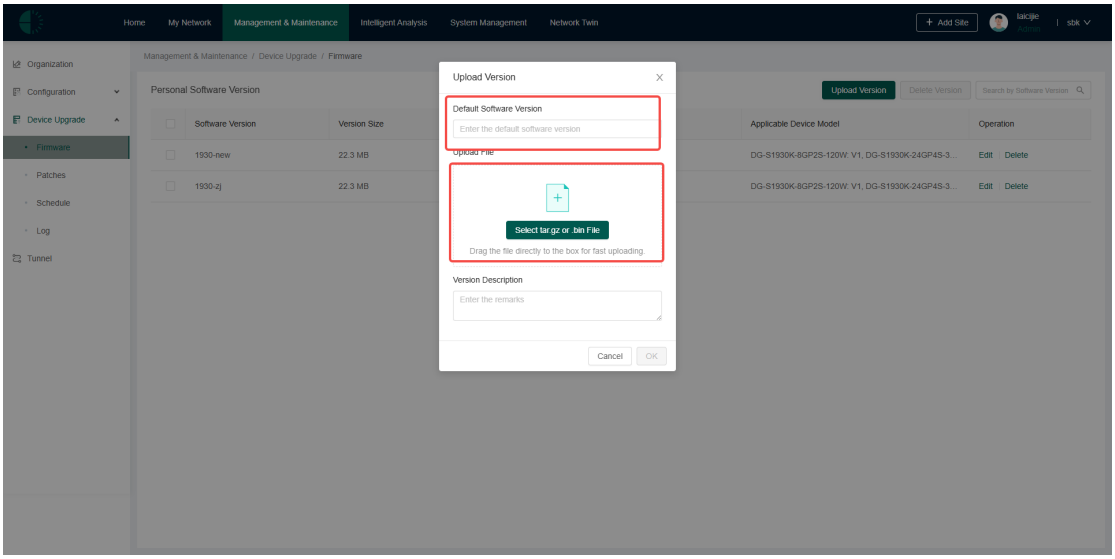
Check the boot version, changed from 3.6.2(700101) to 3.6.2_123e3419(700101).

3. Upgrade via cloud

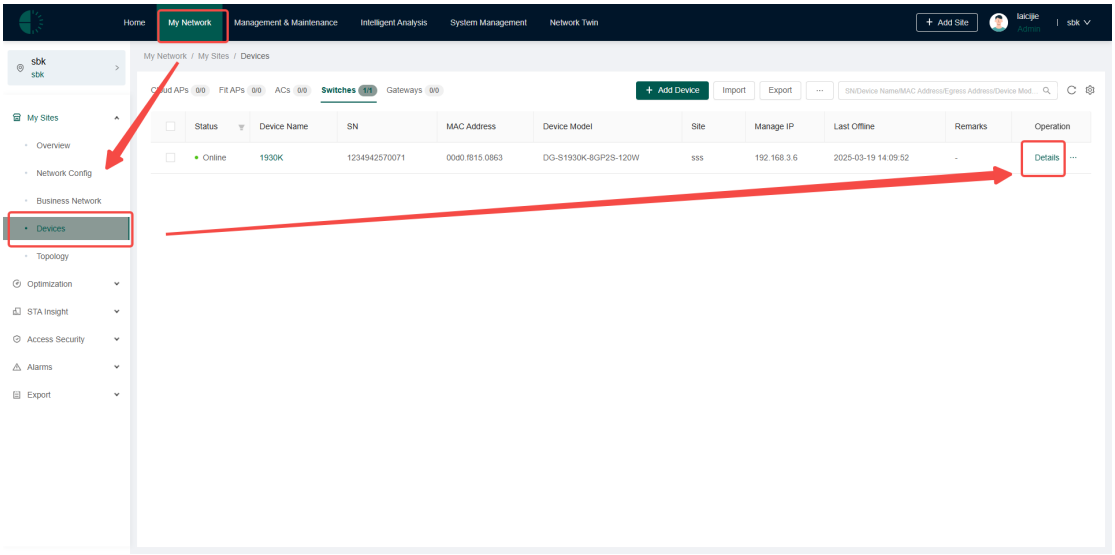
Upload the version on the cloud

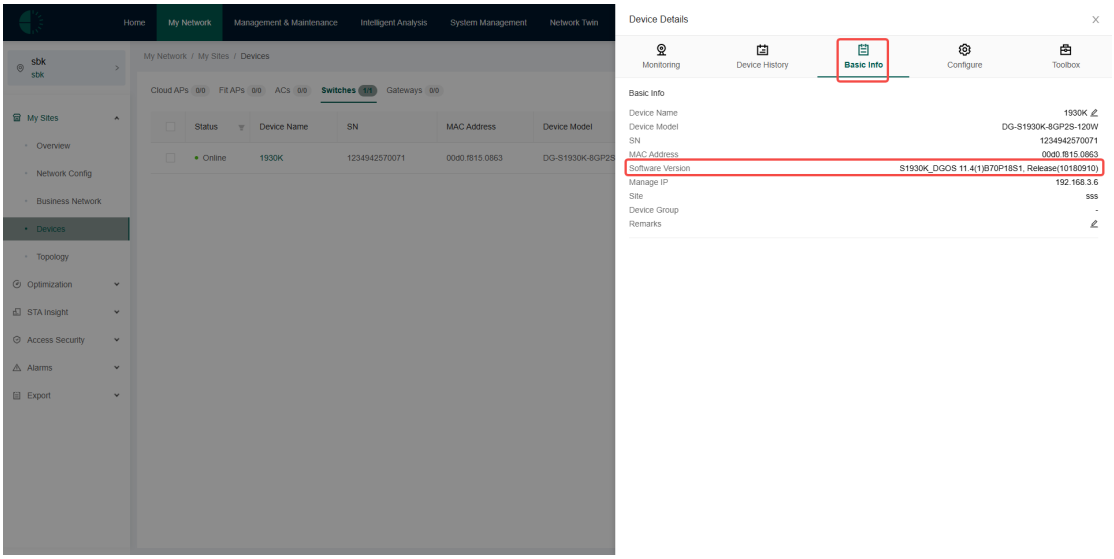


Data General

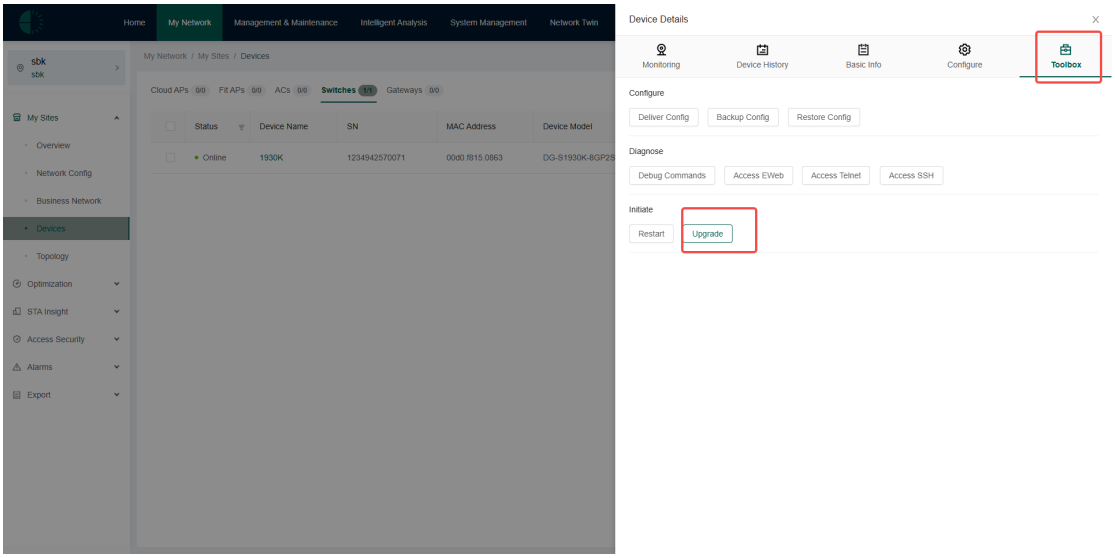


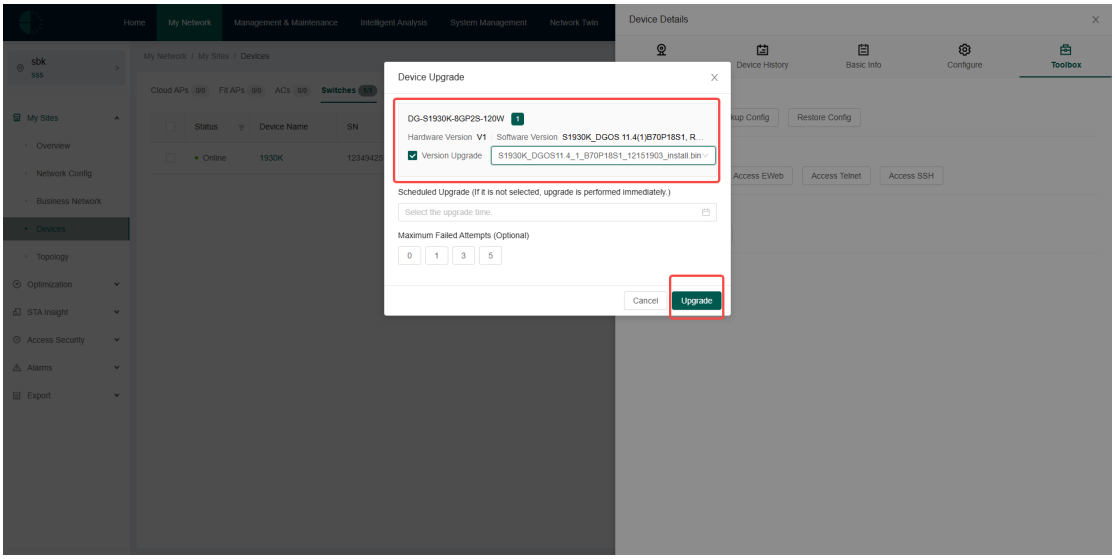
Check version first



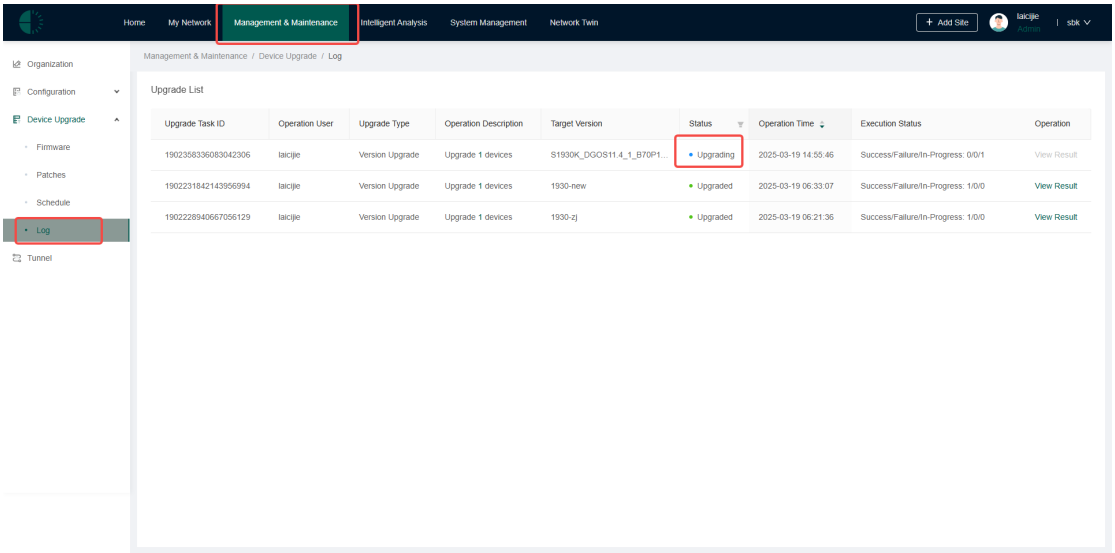


Upgrade the first software: S1930K_DGOS11.4(1)B70P18S1_12151903_middle.bin

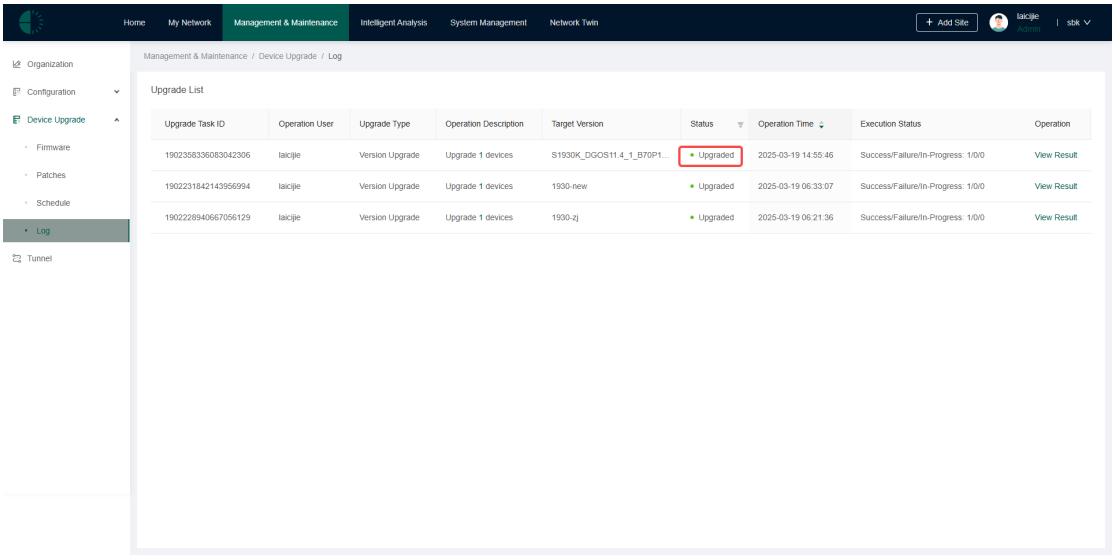




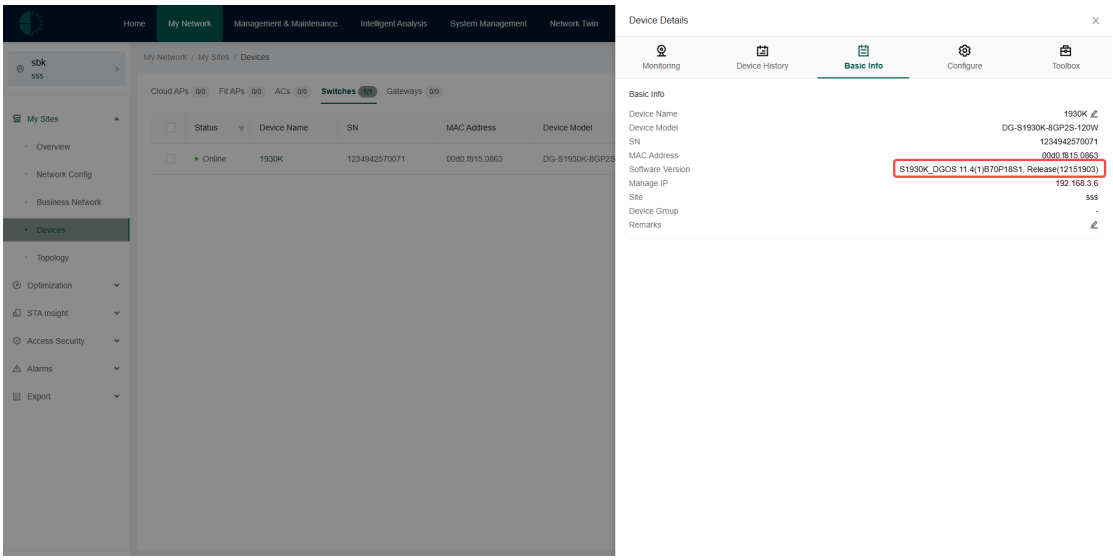
Check upgrade status



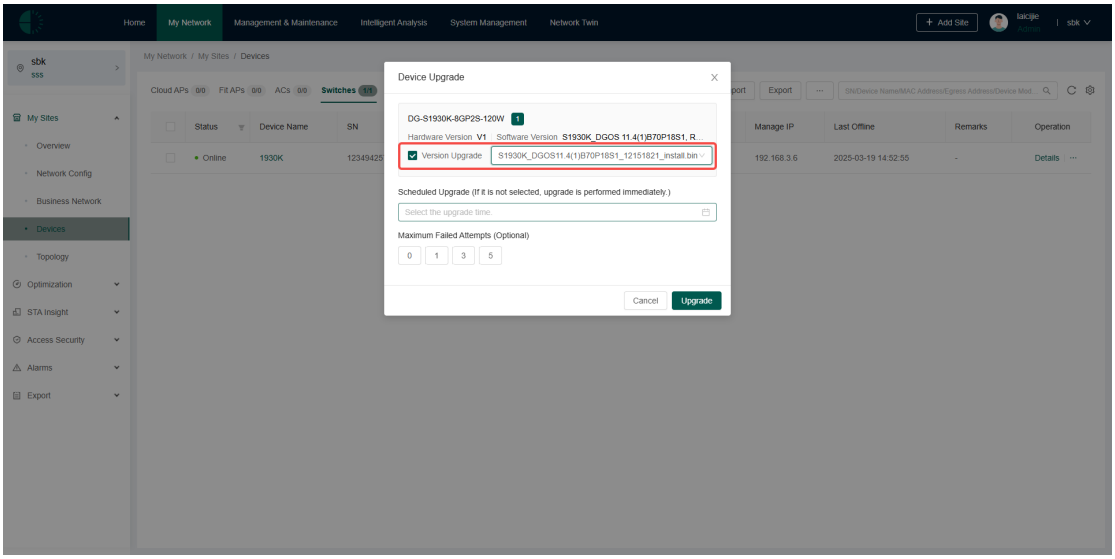
Data General



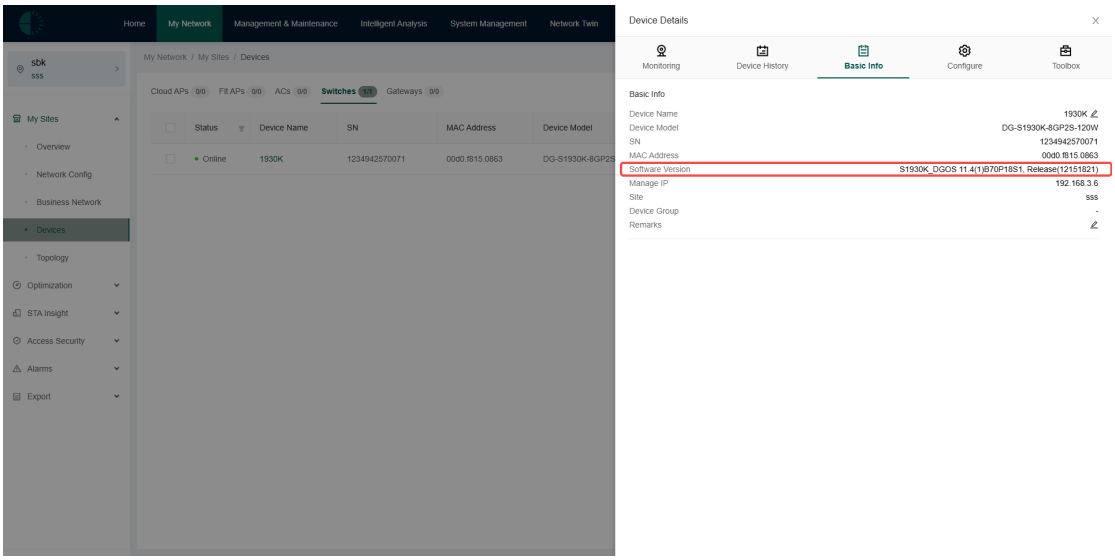
After upgrade, check the version



Upgrade the final software: S1930K_DGOS11.4(1)B70P18S1_12151821_install.bin



After upgrade, check the versión



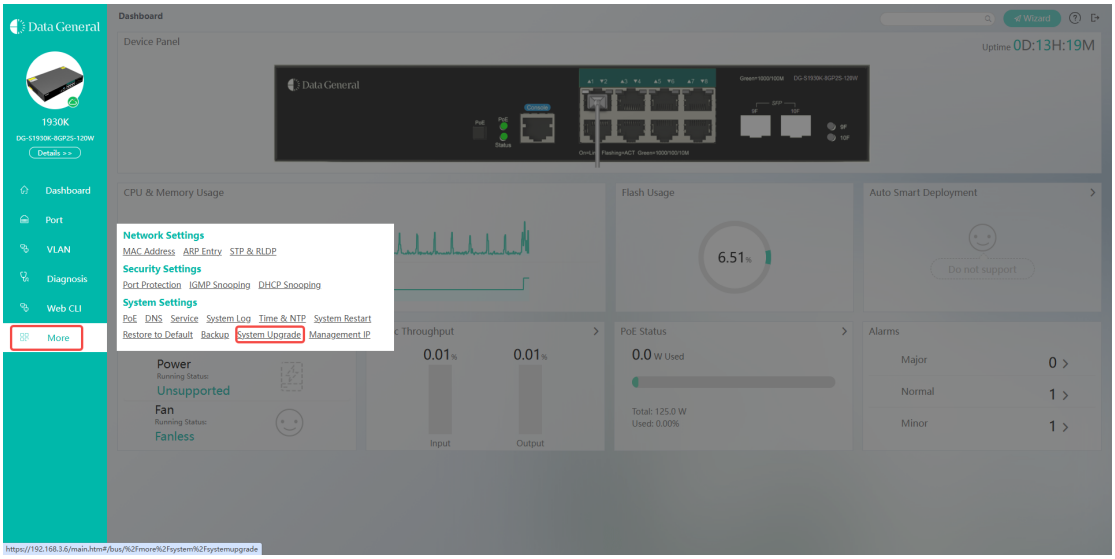

```
1930K>show version detail
System description      : Data General Gigabit Ethernet Switch with PoE(DG-S1930K-8GP2S-120W) By Data General
System start time       : 1970-01-01 00:59:59
System uptime           : 0:00:03:15
System hardware version : 1.00
System software version : S1930K_DGOS 11.4(1)B70P18S1, Release(12151821)
System patch number     : NA
System software number  : M21350403182025
System serial number    : 1234942570071
System boot version     : 3.6.2_123e3419(700101)
System core version     : 3.10.18.93e51c09838dd
Module information:
  Slot 0 : DG-S1930K-8GP2S-120W
    Hardware version    : 1.00
    Boot version        : 3.6
    Software version    : S1930K_DGOS 11.4(1)B70P18S1, Release(12151821)
    Software number     : M21350403182025
    Serial number       : 1234942570071
```

Check the boot version, changed from 3.6.2(700101) to 3.6.2_123e3419(700101).

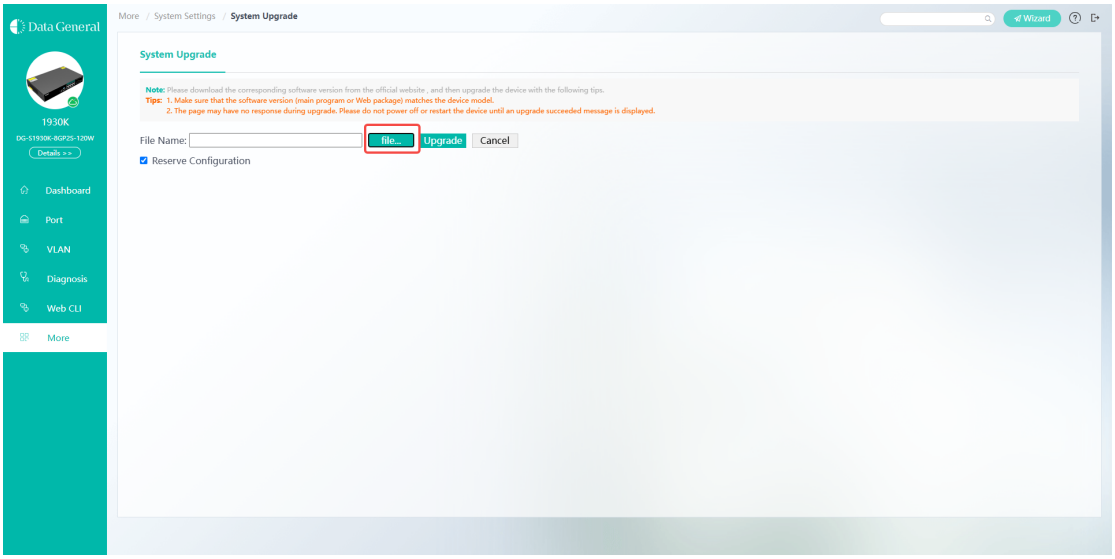
4. Upgrade via WEB

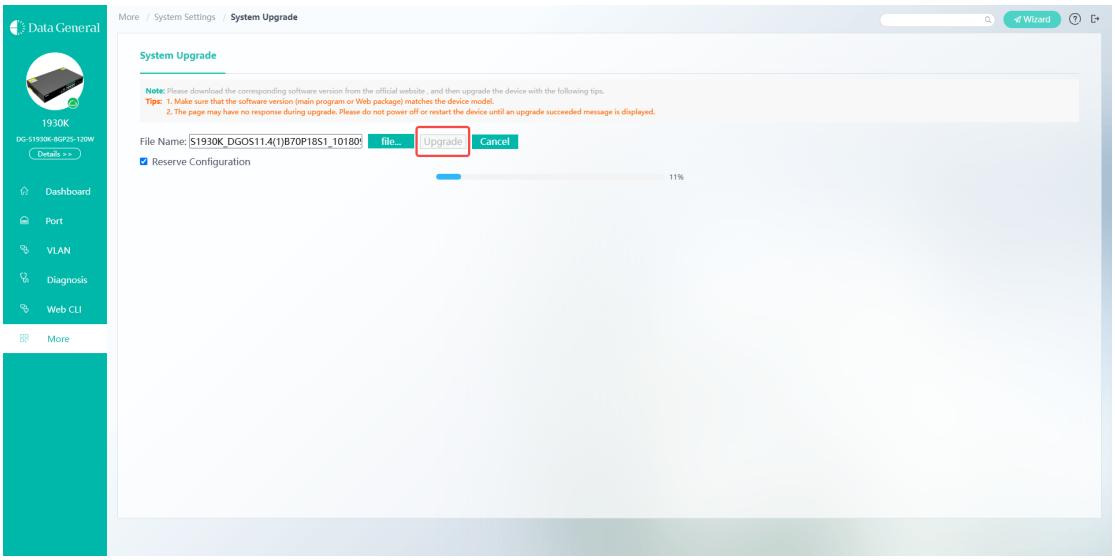
Check version first

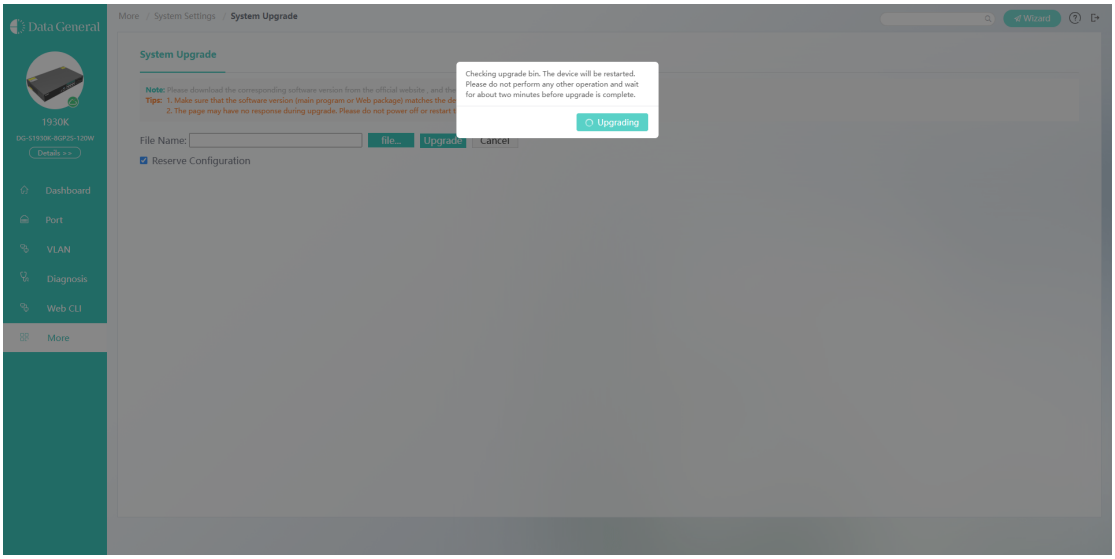
Upgrade the first software: S1930K_DGOS11.4(1)B70P18S1_12151903_middle.bin

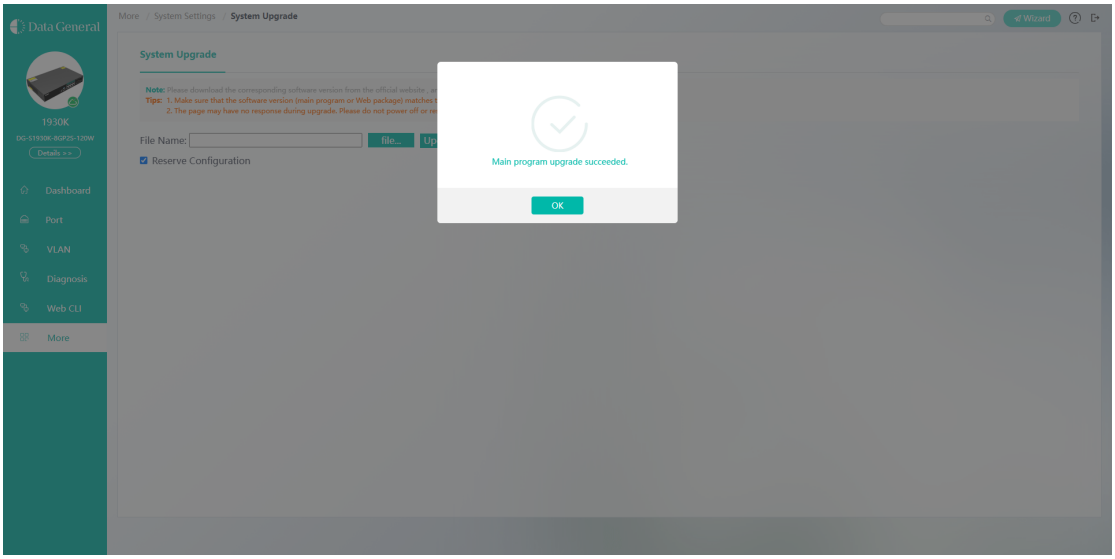


Data General



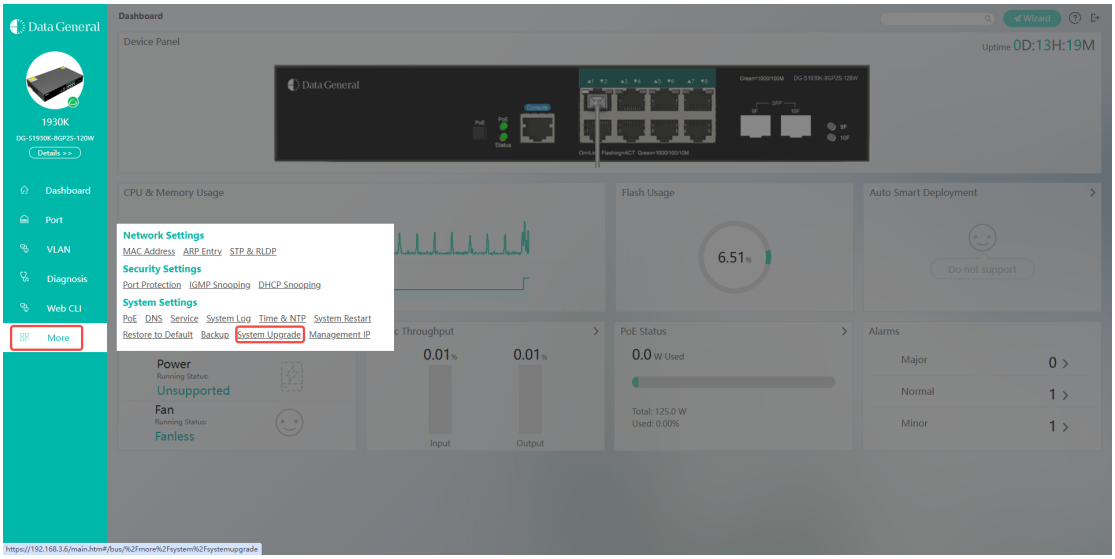


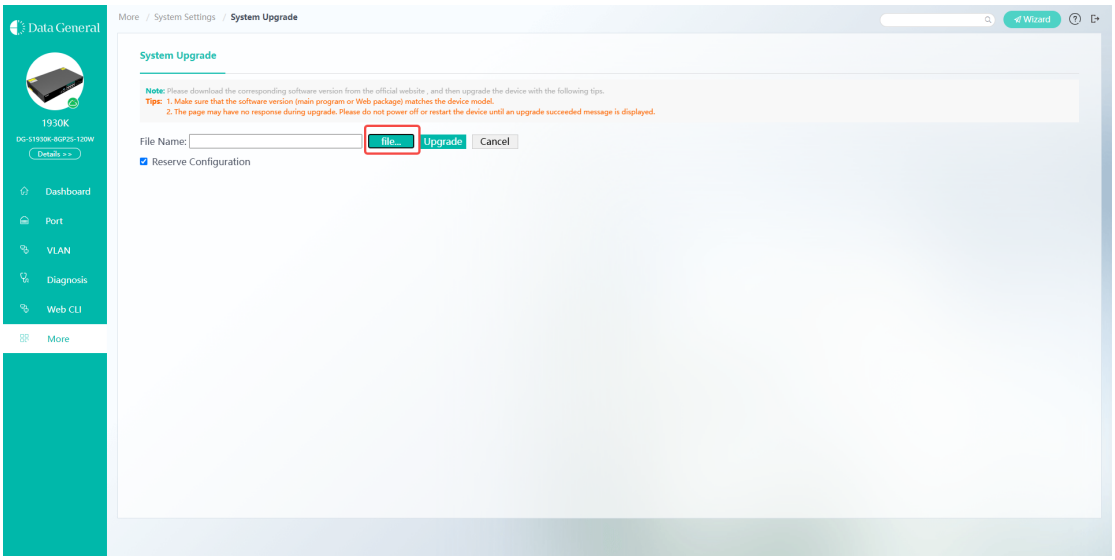


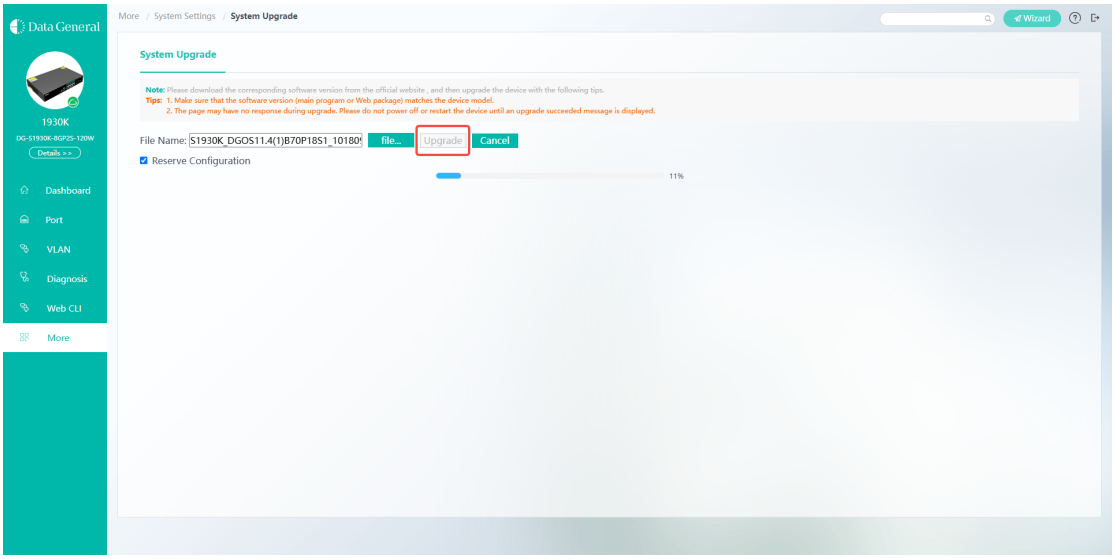


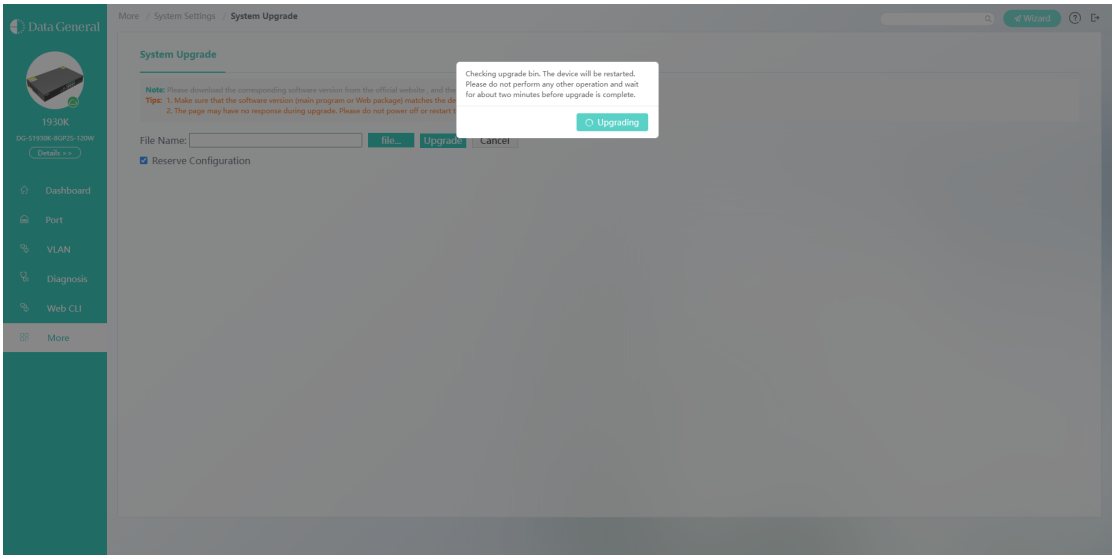
After upgrade, check the versión

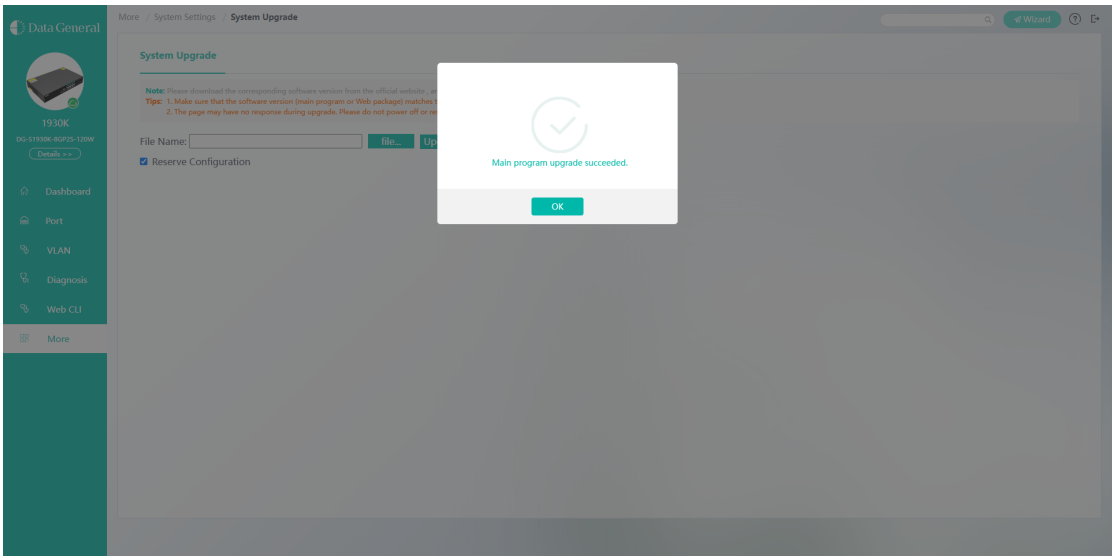
Upgrade the final software: S1930K_DGOS11.4(1)B70P18S1_12151821_install.bin


Data General
Dashboard
Wizard
Device Panel
Uptime 0D:13H:19M
1930K
DG-S1930K-8GP2S-120W
Details >>
Dashboard
Port
VLAN
Diagnosis
Web CLI
More
CPU & Memory Usage
Flash Usage
6.51 %
Auto Smart Deployment
Do not support
Network Settings
MAC Address ARP Entry STP & RLDP
Security Settings
Port Protection IGMP Snooping DHCP Snooping
System Settings
PoE DNS Service System Log Time & NTP System Restart
Restore to Default Backup System Upgrade Management IP
Throughput
0.01 %
0.01 %
Input
Output
PoE Status
0.0 W Used
Total: 125.0 W
Used: 0.00%
Alarms
Major 0
Normal 1
Minor 1
Power
Running Status:
Unsupported
Fan
Running Status:
Fanless
https://192.168.3.6/main.htm#/bus/%2Fmore%2Fsystem%2Fsystemupgrade


Data General
More / System Settings / System Upgrade
Wizard
1930K
DG-S1930K-8GP2S-120W
Details >>
Dashboard
Port
VLAN
Diagnosis
Web CLI
More
System Upgrade
Note: Please download the corresponding software version from the official website , and then upgrade the device with the following tips.
Tips: 1. Make sure that the software version (main program or Web package) matches the device model.
2. The page may have no response during upgrade. Please do not power off or restart the device until an upgrade succeeded message is displayed.
File Name:
file...
Upgrade
Cancel
Reserve Configuration


Data General
More / System Settings / System Upgrade
Wizard
1930K
DG-S1930K-8GP2S-120W
Details >>
Dashboard
Port
VLAN
Diagnosis
Web CLI
More
System Upgrade
Note: Please download the corresponding software version from the official website , and then upgrade the device with the following tips.
Tips: 1. Make sure that the software version (main program or Web package) matches the device model.
2. The page may have no response during upgrade. Please do not power off or restart the device until an upgrade succeeded message is displayed.
File Name: S1930K_DGOS11.4(1)B70P18S1_10180
file...
Upgrade
Cancel
Reserve Configuration
11%


Data General
More / System Settings / System Upgrade
Wizard
System Upgrade
Checking upgrade bin. The device will be restarted. Please do not perform any other operation and wait for about two minutes before upgrade is complete.
Upgrading
1930K
Details >>
File Name:
file...
Upgrade
Cancel
Reserve Configuration
Dashboard
Port
VLAN
Diagnosis
Web CLI
More


Data General
More / System Settings / System Upgrade
Wizard
System Upgrade
Main program upgrade succeeded.
OK
1930K
Details >>
File Name:
file...
Reserve Configuration
Dashboard
Port
VLAN
Diagnosis
Web CLI
More

After upgrade, check the versión

```
1930K>show version detail
System description      : Data General Gigabit Ethernet Switch with PoE(DG-S1930K-8GP2S-120W) By Data General
System start time       : 1970-01-01 00:59:59
System uptime           : 0:00:03:15
System hardware version : 1.00
System software version : S1930K_DGOS 11.4(1)B70P18S1, Release(12151821)
System patch number     : NA
System software number  : M21350403182025
System serial number    : 1234942570071
System boot version     : 3.6.2_123e3419(700101)
System core version     : 3.10.18.93e51c09838500
Module information:
  Slot 0 : DG-S1930K-8GP2S-120W
    Hardware version    : 1.00
    Boot version        : 3.6
    Software version    : S1930K_DGOS 11.4(1)B70P18S1, Release(12151821)
    Software number     : M21350403182025
    Serial number       : 1234942570071
```

Check the boot version, changed from 3.6.2(700101) to 3.6.2_123e3419(700101).