

فتاهال ةباوبل تاباثلل جمانربللا ةيقرت مدومللل او يولخلل

تايوتحملل

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ةمدقملا

تاباثلل جمانربللا او CG522-E (CG) ةيولخلل Cisco 5G ةرابع ةيقرت ةيلمع دنتسملل اذه فصلي
اهب صاخال مدموللل

ةيساساللا تابللطتملا

Cisco IOS® ةيقرت ةيلمعو Cisco نم سماخال ليجلل ةظفحمل يساسأ مهف

تابللطتملا

نم ةفرعم تنأ يقلت ي نأ ي صوي cisco

- اهدادع او CG522-E تايلمع

ةمدختسملا تانوكملل

- CG522-E (17.9.6)

ةصاخ ةيلمعم ةئيب ي ةدوجوملا ةزهجال نم دنتسملل اذه ي ةدراولل تامولعملل عاشنإ مت
تناك اذإ. (يضا رتفا) حوسمم نيوكتب دنتسملل اذه ي ةمدختسملل ةزهجالل عيمج تادب
رمأ يال لم تحملل ريثأتلل كمهف نم دكأتف ، ليغشتل دي قكتكبش

ةيساسأ تامولعم

نم Cisco IOS CG و Cisco IOS® XE (17.6.x لبق) و Cisco IOS® نم ني عون CG522-E معدت
نأ ي في CG522-E ىلع Cisco IOS CG و Cisco IOS XE نيب يسيئرل فالتخال نم كي. (17.6.x)

هذه معدت ال Cisco IOS امنېېب (17.10.1a نم اءءب ىرأ ةرم موعدم) GUI و IPv6 معدې Cisco IOS XE CG418-E ةيولأل ةبابل ةيقرتل اضيأ تاوطلأل او ةيطلال سفن مءءلسل نكمي .تازيمل

ءءاولا ةوطلال تا ءرول ةيقرت

1. CG. زاه ءب لصلل لولل الى ةرولل فلم ءسنل.

2. رملأل تلءء، CG، ف:

```
<#root>
```

```
gw-action:request software upgrade tftp://tftp_IP/image_name
```

3. CG ليءشء ءء:

```
<#root>
```

```
CellularGateway#
```

```
gw-action:request system reboot
```

```
System is about to reload, Continue? [no,yes]
```

```
yes
```

4. اءيقرت ءمءل ءل ةرولل نم ققءء:

```
<#root>
```

```
CellularGateway#
```

```
show gw-system:system partition
```

Primary Image

```
Partition      = image2
File name      = cg-ipsservices-17.15.1a.SPA.bin
Version        = 17.15.1a.0.240234.1724203070..Bengaluru
Build Date     = Wed Aug 21 01:17:50 2024
Install Date   = Wed Aug 9 04:21:20 2023
Boot Status    = Boot Successful.
```

Backup Image

Partition = image1
File name = cg-ipservices-17.09.04.SPA.bin
Version =

17.09.04

.0.0.1691563291..Bengaluru
Build date = Wed Aug 09 06:41:31 2023
Install Date = Fri Jun 22 11:13:22 2018
Boot Status = Boot Successful.

تاوطلخال ءءءءم روصال ءققرء

1. ال ء روصال لىزنء CG:

```
gw-action:request software download tftp://tftp_IP/image_name
```

2. ء روصال ءىبءب مق:

```
gw-action:request software install image_file
```

3. ء روصال طىشنء:

```
gw-action:request software activate image_file
```

4. ال ءىغشت ءء CG:

```
<#root>
```

```
CellularGateway#
```

```
gw-action:request system reboot
```

```
System is about to reload, Continue? [no,yes]
```

```
yes
```

5. اءءققرء ءمء ءىءال ء روصال نم ققءء:

<#root>

CellularGateway#

show gw-system:system partition

Primary Image

Partition = image2

File name = cg-ipsservices-17.15.1a.SPA.bin

Version =

17.15.1a

.0.240234.1724203070..Bengaluru

Build Date = Wed Aug 21 01:17:50 2024

Install Date = Wed Aug 9 04:21:20 2023

Boot Status = Boot Successful.

Backup Image

Partition = image1

File name = cg-ipsservices-17.09.04.SPA.bin

Version = 17.09.04.0.0.1691563291..Bengaluru

Build date = Wed Aug 09 06:41:31 2023

Install Date = Fri Jun 22 11:13:22 2018

Boot Status = Boot Successful.

Cisco CG522-E مدموملل تبائل چمانربلل ةيقرت

مدموملل زارط ىلع فرعتلل 1.

<#root>

show cellular 1 hardware

لائم:

<#root>

CellularGateway#

show cellular 1 hardware

Modem Firmware Version = SWIX55C_03.09.11.00 7bf975 jenkins

Device Model ID = EM9190

International Mobile Subscriber Identity (IMSI) = 268069668483162
International Mobile Equipment Identity (IMEI) = 356805515034835
Integrated Circuit Card ID (ICCID) = 89351060001115740710
Mobile Subscriber Integrated Services Digital Network Number (MSISDN) =
Factory Serial Number (FSN) = 4H4282826003B1
Current Modem Temperature = 46 deg C
PRI SKU ID = 1104703

PRI Version = 030.044_006

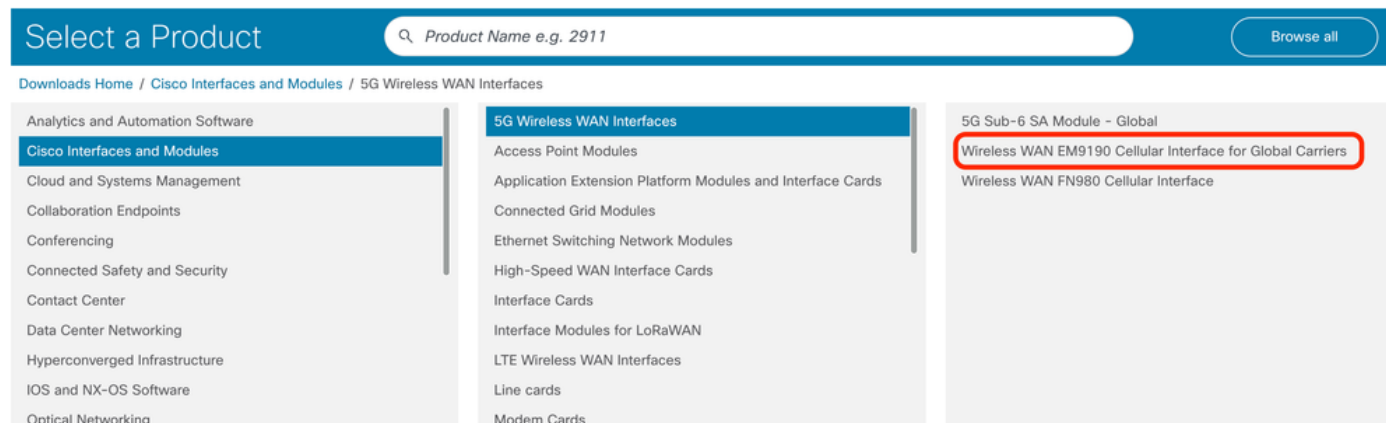
Carrier = GENERIC

OEM PRI Version = 001.009

Modem Status = MODEM_STATE_DNS_ACQUIRED

2. software.cisco.com. ع ق و م ن م ح ص ل ل م ل ي ز ن ت ب م ق .

ل ل م ل ل ي ب س ل ع :



ة ت ب ا ل ل م ا ر ب ل ا ة ي ق ر ت ل ت ا ف ل م 3 ر ف و ت ي ، EM9190 م د و م ل ا ز ه ج أ ل ة ب س ن ل ل ب

1. CWE (ل ل ة د ن ت س م ل ا ة ت ب ا ل ل م ا ر ب ل ا ف ل م)
2. NVU (ل م ا ح ب ص ا خ ل ا P R I ف ل م)
3. NVU (ل م ا ح ب O E M P R I ف ل م)

ل ل م :

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Wireless WAN EM9190 Cellular Interface for Global Carriers

Release 03.10.07.00

Related Links and Documentation

[Firmware Upgrade Guide](#)

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File Information	Release Date	Size
03.10.07.00 modem firmware for EM9190 modem. Note: See Firmware Upgrade Guide for minimal firmware version requirement for this upgrade. EM9190_03.10.07.00_cwe Advisories	15-Aug-2023	86.46 MB
T-Mobile carrier PRI, based on 03.10.07.00 modem firmware, for EM9190 modem. Note: See Firmware Upgrade Guide for minimal firmware version requirement for this upgrade. EM9190_03.10.07.00_TMO_030.052_000_mvu Advisories	15-Aug-2023	0.03 MB

نمي الي لى ع ةرفوتم ل امارب ل اارادص اى ورك كنكمي ،ةلات ل اصف لى ف
ب سح ةبسانم ل ةروصل ل دح .امانرب ل اارادص اى سف ل ةحات م ةددعتم اافل م ىرت ن ا كنكمي
مادختسا بجي ف ،ةمئاق لى ف ةدوجوم ةمدختسم ل لى ل ةكرش نكت مل اذ ا .مدختسم ل لى لى
ةماع ل ةروصل ل

ل اام ل لى بس لى ع

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Wireless WAN EM9190 Cellular Interface for Global Carriers

Release 03.09.11.00

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File Information	Release Date	Size	
03.09.11.00 modem firmware for EM9190 modem. This is the same file as EM9190_03.09.11.00-002.cwe posted on 27-Feb-2023. Only the filename got changed. Note: See Firmware Upgrade Guide for minimal FW version requirement for this upgrade. EM9190_03.09.11.00.cwe Advisories	15-Aug-2023	87.34 MB	Download Cart File
AT&T PRI for EM9190 modem. This is the same file as EM9190_03.09.11.00-001_ATT_030.046_001.nvu posted on 11-Apr-2023. Only the filename got changed. Note: See Firmware Upgrade Guide for minimal firmware version requirement for this upgrade. EM9190_03.09.11.00_ATT_030.046_001.nvu Advisories	15-Aug-2023	0.06 MB	Download Cart File
Bell carrier PRI, based on 03.09.11.00 modem firmware, for EM9190 modem. Note: See Firmware Upgrade Guide for minimal firmware version requirement for this upgrade. EM9190_03.09.11.00_BELL_030.007_001.nvu Advisories	15-Aug-2023	0.07 MB	Download Cart File
NTT DoCoMo carrier PRI, based on 03.09.11.00 modem firmware, for EM9190 modem. Note: See Firmware Upgrade Guide for minimal firmware version requirement for this upgrade. EM9190_03.09.11.00_DOCOMO_030.041_003.nvu Advisories	15-Aug-2023	0.05 MB	Download Cart File
Generic PRI for EM9190 modem. This is the same file as EM9190_03.09.11.00-001_GENERIC_030.044_006.nvu posted on 27-Feb-2023. Only the filename got changed. Note: See Firmware Upgrade Guide for minimal FW version requirement for this upgrade EM9190_03.09.11.00_GENERIC_030.044_006.nvu Advisories	15-Aug-2023	0.05 MB	Download Cart File
KDDI carrier PRI, based on 03.09.11.00 modem firmware, for EM9190 modem. Note: See Firmware Upgrade Guide for minimal firmware version requirement for this upgrade. EM9190_03.09.11.00_KDDI_030.025_001.nvu Advisories	15-Aug-2023	0.07 MB	Download Cart File
SoftBank carrier PRI, based on 03.09.11.00 modem firmware, for EM9190 modem. Note: See Firmware Upgrade Guide for minimal firmware version requirement for this upgrade. EM9190_03.09.11.00_SOFTBANK_030.031_004.nvu Advisories	15-Aug-2023	0.03 MB	Download Cart File
Verizon PRI for EM9190 modem. This is the same file as EM9190_03.09.11.00-001_VERIZON_030.046_003.nvu posted on 27-Feb-2023. Only the filename got changed. Note: See Firmware Upgrade Guide for minimal FW version requirement for this upgrade EM9190_03.09.11.00_VERIZON_030.046_003.nvu Advisories	15-Aug-2023	0.07 MB	Download Cart File

c. NVU (فلم OEM PRI)

لثام:

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Release EM9190_001.009

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File Information	Release Date	Size
This OEM PRI file is only for EM9190 modem. It is compatible with modem firmware 03.04.03.00 and above. EM9190_1104703_03.09.11.00_Cisco_001.009.nvu Advisories	15-Aug-2023	0.02 MB

Carrier PRI و OEM PRI) إلى (دونتسمل ةتباتل ءماربلا) ةثالثل تارادصلإ ةفاك ةي دءتل
ن: نللصل فنم نل نل ةتباتل ءماربلا ةل قرت ةل لم ءارء مزلل

- ف (Carrier PRI فلم) nvu و (ساسأ لىل ءئاق تبات ءمارب فلم) cwe. ءم لىلوال ءرمل.
ءءاو ءلءم.
- ءءاو ءلءم ف (OEM PRI فلم) nvu. ءم ةل نئال ءرمل.
- Cisco IOS ءمارب ءءءأ لىل CG ةل قرت نم ءكأ.
- ءنل زءء نم ءكأ و EM9190 مءومل (لقانلاب صاءل ال PRI) nvu و cwe. تافل م ءءءأ لىل زئب مق.
لىل CG.
- FW و تباتل ءماربلا نع افللءءم مسالا نوكل نأ بءل. flash ف ءلءم ءاشن.

<#root>

gw-action:

request file create_dir firm_new

لاءم:

<#root>

CellularGateway#

```
gw-action:request file create_dir firm_new
```

Created Directory at: firm_new

6. CG flash: ةركاذى لىإ تافللملا نم (Carrier PRI) و.nvu .cwe نم الك خسنأ:

```
gw-action:request file copy source tftp://
```

/

```
destination/storage/firm_new/
```

لثام:

```
<#root>
```

```
CellularGateway#
```

```
gw-action:request file copy source tftp://192.168.1.2/fw.bin destination/storage/firm_new/fw.bin
```

مت يذلا دلجملا يف حيحص لكشب اهليزنت مت (carrier pri) و.nvu .cwe تافللم نأ نم دكأت 7.
اثيدح هؤاشنأ:

```
<#root>
```

```
CellularGateway#
```

```
gw-action:request file list fw_folder
```

```
-rw-r--r-- 50575 May 19 06:57 EM9190_03.09.11.00-001_GENERIC_030.044_006.nvu
```

-rw-r--r-- 91579911 May 19 06:50 EM9190_03.09.11.00-002.cwe
CellularGateway#

8. ڌي لالحل Carrier PRI و تباثل اجم انربل اارادصل نم ققحتل:

<#root>

CellularGateway#

show cellular 1 hardware

Modem Firmware Version = SWIX55C_01.07.13.00 000000

jenkins

Device Model ID = EM9190

International Mobile Subscriber Identity (IMSI) = 123456700004023

International Mobile Equipment Identity (IMEI) = 356805510129085

Integrated Circuit Card ID (ICCID) = 8952530076180184023

Mobile Subscriber Integrated Services Digital Network Number (MSISDN) =

Factory Serial Number (FSN) = 4H1531500901A1

Current Modem Temperature = 35 deg C

PRI SKU ID = 1104703

PRI Version = 016.006_004 Carrier = GENERIC

OEM PRI Version = 001.006

Modem Status = MODEM_STATE_NETWORK_READY

CellularGateway#

CellularGateway#

CellularGateway# show cellular 1 firmware Firmware

Activation Mode = AUTO

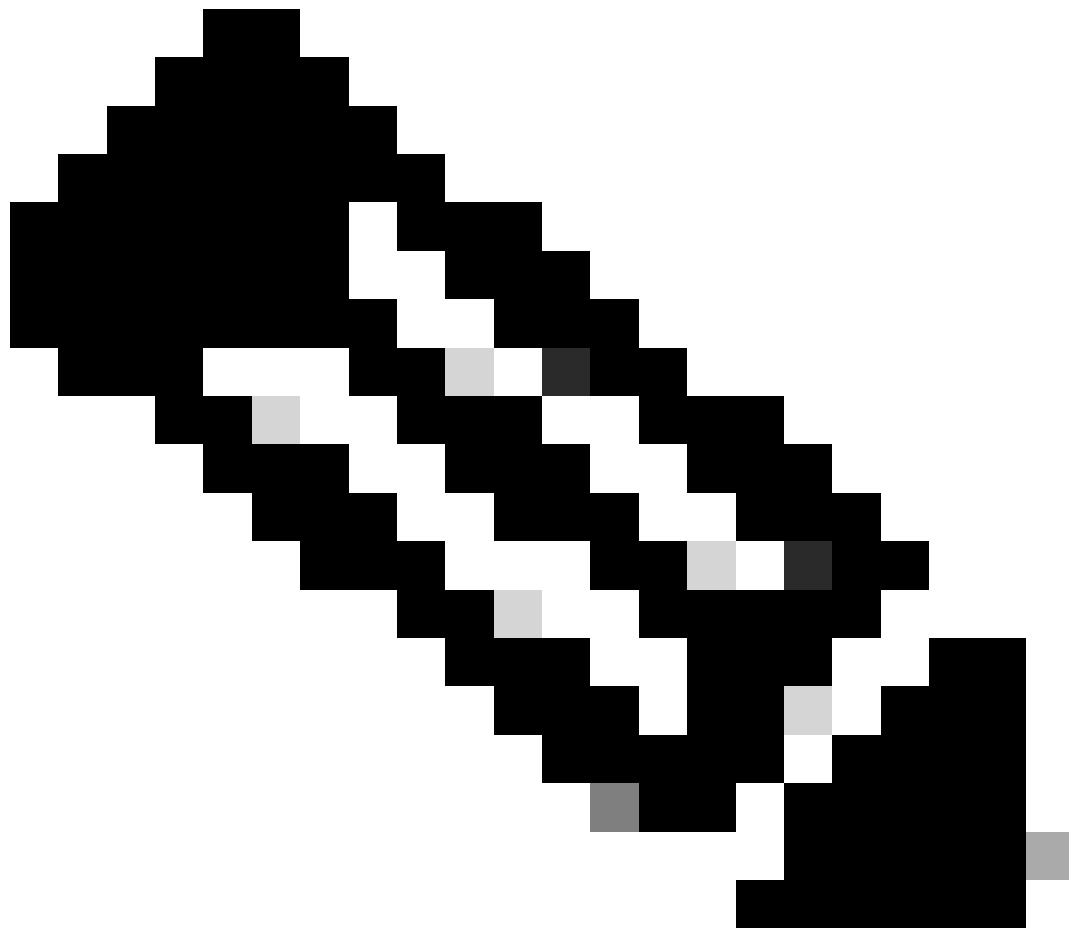
INDEX CARRIER FW VERSION PRI VERSION STATUS

1 GENERIC 01.07.13.00_GEN 016.006_004 ACTIVE

CellularGateway#

9. رمال مادختساب مدوملل تباثل اجم انربل اةقرت ادبا:

cellular 1 upgrade firmware <created_earlier_folder_directory>



جمانربلا ةيقرت ةيلمع ءانثأ هجوملا ليحت ةداعإ وأ ةقاطلا ةلازاب مقت ال :ةظحال م
تباثلا .

لاثم:

<#root>

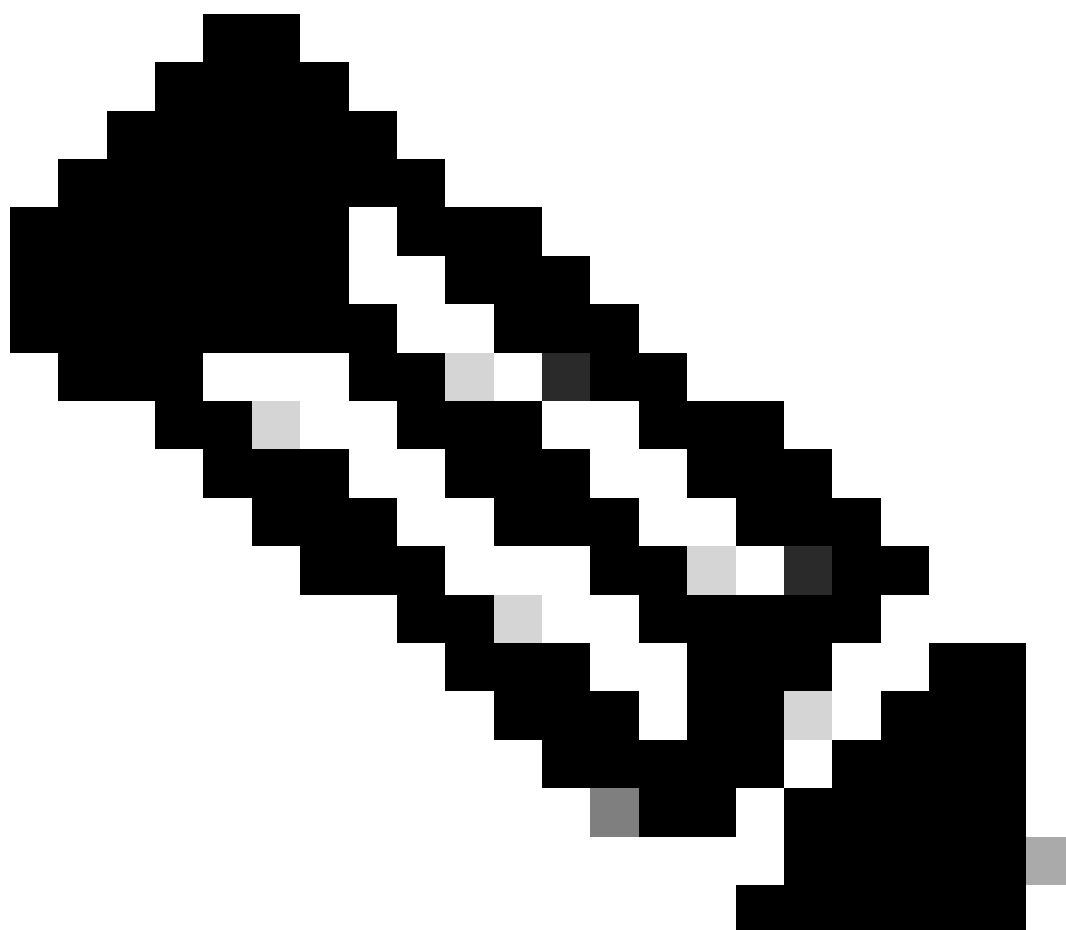
CellularGateway#

cellular 1 upgrade firmware /flash/firm_new

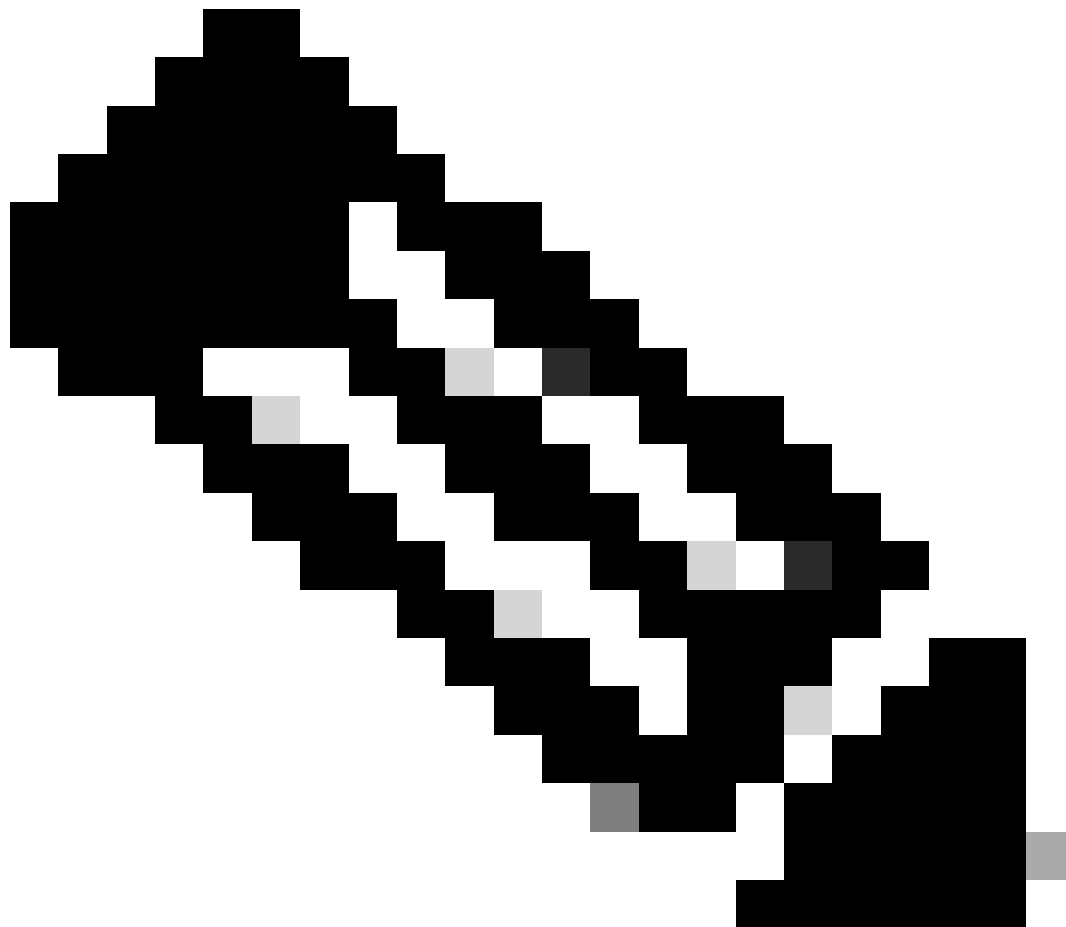
status inprogress response

Firmware upgrade is in progress!!!

CellularGateway#



دلجملا يف طقف ةبولطملا ةتباثلا جماربلا تافلمب ظافتحالا نم دكأت :ةظحالم
دلجملا سفن يف رادصلإ نم رثكأ نيزخت ةلاح يف تااضراعتلا بنجتل هؤاشنإ مت يذلا



ةيقرتلاب مق ،01.07.08 يلاحلا رادصلإا ناك اذا ،SWI EM9190 مءومل ةبسنلاب :ةطءالم
تارادصلإا ءءءأ ىلإ ةيقرتلاب لبق الوأ 01.07.13 ىلإ

ءاىننن Carrier PRI ءمانربو مءوملل تءاثلل ءمانربلاب ةيقرت نم ءكاأ 10.

<#root>

CellularGateway# show cellular 1 hardware

Modem Firmware Version = SWIX55C_03.09.11.00

7bf975 jenkins
Device Model ID = EM9190
International Mobile Subscriber Identity (IMSI) = 123456700004023
International Mobile Equipment Identity (IMEI) = 356805510129085
Integrated Circuit Card ID (ICCID) = 8952530076180184023
Mobile Subscriber Integrated Services Digital Network Number (MSISDN) =
Factory Serial Number (FSN) = 4H1531500901A1
Current Modem Temperature = 35 deg C
PRI SKU ID = 1104703

PRI Version = 030.044_006

Carrier = GENERIC

OEM PRI Version = 001.006
Modem Status = MODEM_STATE_NETWORK_READY
CellularGateway#
CellularGateway#
CellularGateway#show cellular 1 firmware
Firmware Activation Mode = AUTO
INDEX CARRIER FW VERSION PRI VERSION STATUS

1 GENERIC 03.09.11.00_GEN 030.044_006 ACTIVE

CellularGateway#

OEM PRI ل nvu. تافلم عم اهسفن تاوطخلا ررك، OEM PRI ةيقرتل ةبس نلاب 11.

رارقلا

مدوملل تبات جم انرب ثدحأو لاوجللا ةرابعل رفوتم جم ارب رادصل ثدحأ لي غشتب امئاد ي صوي
ةيولخللا تالاصتالا ةكرش معدل ةبولطملا PRI تافلم ثدحأ يل ع يوتحي هنأل.

ةمچرتل هذه ل و ح

ةيلآل ا تاي ن ق ت ل ا ن م ة و م ج م ا د خ ت س ا ب د ن ت س م ل ا ا ذ ه Cisco ت م چ ر ت م ل ا ع ل ا ا ح ن ا ع م ج ي ف ن ي م د خ ت س م ل ل م ع د ي و ت ح م م ي د ق ت ل ة ي ر ش ب ل ا و ا م ك ة ق ي ق د ن و ك ت ن ل ة ي ل آ ة م چ ر ت ل ض ف ا ن ا ة ط ح ا ل م ي ج ر ي . ة ص ا خ ل ا م ه ت غ ل ب Cisco ي ل خ ت . ف ر ت ح م م چ ر ت م ا ه م د ق ي ي ت ل ا ة ي ف ا ر ت ح ا ل ا ة م چ ر ت ل ا ع م ل ا ح ل ا و ه ي ل ا ا م ا د ع و ج ر ل ا ب ي ص و ت و ت ا م چ ر ت ل ا ه ذ ه ة ق د ن ع ا ه ت ي ل و ئ س م Systems (ر ف و ت م ط ب ا ر ل ا) ي ل ص ا ل ا ي ز ي ل ج ن ا ل ا د ن ت س م ل ا