

# StarOS في IDFT ةزيم كولس

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## ةمدقمل

لصفو Control في (IDFT) رشابمل ريغ هيچوتلا ةداع قفن ةزيم كولس دنتسمل اذه فصفي ةميدقلا/ةيدامل تانوكمل دادعإو (CUPS) مدختسمل ةطخ.

## ةيساسأل تابلطتم

### تابلطتم

ةيلال عيضاوملاب ةفرعم كيدل نوكت نأب Cisco في صوت:

- StarOS
- IDFT بةقلعتمل (SGW) ةمدخل ةرابع ةفيظو

### ةمدختسمل تانوكمل

SGW - لةيدامل تانوكمل اوچماربلا تارادصلإل دنتسمل اذه في ةدراولا تامولعملا دنتست (CUPS و ةميدقلا تارادصلإل في) 21.25.9.

ةصاخة لعم ةئيبي في ةدوچوملا ةزهجال نم دنتسمل اذه في ةدراولا تامولعملا عاشنإ مت تناك اذإ. (يضارفتفا) حوسمم نيوكتب دنتسمل اذه في ةمدختسمل ةزهجال عيجم تآدب رمايال لمحتحمل ريثأتلل كمهف نم دكأتف، ليغشتلا ديقتك تشبش.

## ةيساسأ تامولعم

ةيفاصللا تاملكملا لعل قبطنت يتلاو، فذحالو عاشنإلل IDFT تاءارجإ SGW معدي ةزيملا هذه قبطنت. نييرثكمل او (PDN) ةددعتمل مزحل تانايب ةكبش مادختساب ةعوطقملاو اهنودب واداصتلاو SGW عقوم ديدحت تاهوييرانيس مادختساب IDFT معدي لعل.

فئاطولا هذه IDFT ةزيم معدت:





```

# 0.113_2022-07-15 08:05:09.159000 192.168.1.100 10.1.10.1 GTPv2 Request accepted,Request accepted
5 0.020_2022-07-15 08:05:09.174000 10.1.10.1 192.168.1.100 GTPv2 Modify Bearer Response
6 0.345_2022-07-15 08:05:09.519000 192.168.1.108 10.1.20.3 GTP Echo request
7 0.000_2022-07-15 08:05:09.519000 10.1.20.3 192.168.1.108 GTP Echo response
8 26.20_2022-07-15 08:05:35.726000 192.168.1.100 10.1.10.1 GTPv2 Create Indirect Data Forwarding Tunnel...
9 0.000_2022-07-15 08:05:35.726000 10.1.10.1 192.168.1.100 GTPv2 Data forwarding not supported Create Indirect Data Forwarding Tunnel...
10 3.792_2022-07-15 08:05:39.518000 192.168.1.108 10.1.20.3 GTP Echo request
11 0.000_2022-07-15 08:05:39.518000 10.1.20.3 192.168.1.108 GTP Echo response
12 0.074_2022-07-15 08:05:39.592000 10.1.20.3 192.168.1.108 GTP Echo request
13 0.001_2022-07-15 08:05:39.593000 192.168.1.108 10.1.20.3 GTP Echo response
14 29.92_2022-07-15 08:06:09.517000 192.168.1.108 10.1.20.3 GTP Echo request
15 0.000_2022-07-15 08:06:09.517000 10.1.20.3 192.168.1.108 GTP Echo response
16 2.002_2022-07-15 08:06:11.519000 10.1.10.1 192.168.1.100 GTPv2 Echo Request
17 0.610_2022-07-15 08:06:12.129000 192.168.1.100 10.1.10.1 GTPv2 Modify Bearer Request
18 0.002_2022-07-15 08:06:12.131000 10.1.10.1 192.168.1.100 GTPv2 Request accepted,Request accepted Modify Bearer Response

```

```

> Frame 8: 76 bytes on wire (608 bits), 76 bytes captured (608 bits) on interface 0
> Ethernet II, Src: 00:00:00:00:00:00 (00:00:00:00:00:00), Dst: 00:00:00:00:00:00 (00:00:00:00:00:00)
> Internet Protocol Version 4, Src: 192.168.1.100, Dst: 10.1.10.1
> User Datagram Protocol, Src Port: 10000, Dst Port: 2123
GPRS Tunneling Protocol V2
  Flags: 0x48
  Message Type: Create Indirect Data Forwarding Tunnel Request (166)
  Message Length: 30
  Tunnel Endpoint Identifier: 0x80000006 (2147483654)
  Sequence Number: 0x000002 (2)
  Spare: 0
  Bearer Context : [Grouped IE]
    IE Type: Bearer Context (93)
    IE Length: 18
    0000 .... = CR flag: 0
    .... 0000 = Instance: 0
    > EPS Bearer ID (EBI) : 5
    > Fully Qualified Tunnel Endpoint Identifier (F-TEID) : eNodeB GTP-U interface for DL data forwarding, TEID/GRE Key: 0x20010089, IPv4 192.168.1.106

```

دوچو عم MME لى لى رخا ؤرم "IDFT ةباجت ساشن" ةباجت سالا لسريو وبلطال SGW جلاع ي 2) "ةم وعودم ريغ تانايا بل هي جوت ؤداع" بسلا

```

7 0.000_2022-07-15 08:05:09.519000 10.1.20.3 192.168.1.108 GTP Echo response
8 26.20_2022-07-15 08:05:35.726000 192.168.1.100 10.1.10.1 GTPv2 Create Indirect Data Forwarding Tunnel...
9 0.000_2022-07-15 08:05:35.726000 10.1.10.1 192.168.1.100 GTPv2 Data forwarding not supported Create Indirect Data Forwarding Tunnel...
10 3.792_2022-07-15 08:05:39.518000 192.168.1.108 10.1.20.3 GTP Echo request
11 0.000_2022-07-15 08:05:39.518000 10.1.20.3 192.168.1.108 GTP Echo response
12 0.074_2022-07-15 08:05:39.592000 10.1.20.3 192.168.1.108 GTP Echo request
13 0.001_2022-07-15 08:05:39.593000 192.168.1.108 10.1.20.3 GTP Echo response
14 29.92_2022-07-15 08:06:09.517000 192.168.1.108 10.1.20.3 GTP Echo request
15 0.000_2022-07-15 08:06:09.517000 10.1.20.3 192.168.1.108 GTP Echo response
16 2.002_2022-07-15 08:06:11.519000 10.1.10.1 192.168.1.100 GTPv2 Echo Request
17 0.610_2022-07-15 08:06:12.129000 192.168.1.100 10.1.10.1 GTPv2 Modify Bearer Request
18 0.002_2022-07-15 08:06:12.131000 10.1.10.1 192.168.1.100 GTPv2 Request accepted,Request accepted Modify Bearer Response

```

```

> Frame 9: 60 bytes on wire (480 bits), 60 bytes captured (480 bits) on interface 0
> Ethernet II, Src: 00:00:00:00:00:00 (00:00:00:00:00:00), Dst: 00:00:00:00:00:00 (00:00:00:00:00:00)
> Internet Protocol Version 4, Src: 10.1.10.1, Dst: 192.168.1.100
> User Datagram Protocol, Src Port: 2123, Dst Port: 10000
GPRS Tunneling Protocol V2
  Flags: 0x48
  Message Type: Create Indirect Data Forwarding Tunnel Response (167)
  Message Length: 14
  Tunnel Endpoint Identifier: 0x10010001 (268500993)
  Sequence Number: 0x000002 (2)
  Spare: 0
  Cause : Data forwarding not supported (106)
    IE Type: Cause (2)
    IE Length: 2
    0000 .... = CR flag: 0
    .... 0000 = Instance: 0
    Cause: Data forwarding not supported (106)
    0000 0... = Spare bit(s): 0
    ... .0. = PCE (PDN Connection IE Error): False
    ... ..0. = BCE (Bearer Context IE Error): False
    ... ...0 = CS (Cause Source): Originated by node sending the message

```

ةباجت سالا تاوطخال ذيفنت كمزلي ،ةزيملا هذه ني كمتل ،لوؤسملا ليلد نم اهليلطعت و IDFT ؤريم ني كمتل هذه CLI رم اوامدختسا ،مكحتلا يوتسم لىع

configure

```

context context_name

sgw-service service_name

[ default | no ] egtp idft-support

end

```

تاراخي اةيؤر نم نكمتت نل ف ،ةمدخال لىطعت/ني كمتل لصالا يف تاوطخال هذه تعبتا اذا اهريريغل

```
[sgw]TITAN-ULTRA-001(config-sgw-service)# egtp
```

cause-code - Configuration to related to handling failure response from peer  
change-notification-req - Configuration related to handling change notification request  
modify-bearer-req - Configuration related to handling Modify Bearer Request

[sgw]TITAN-ULTRA-001(config-sgw-service)# no egtp

cause-code - Configuration to related to handling failure response from peer  
change-notification-req - Configuration related to handling change notification request  
modify-bearer-req - Configuration related to handling Modify Bearer Request

اهرييغت ل رايخ ل اضرعت اهن ا ف CUPS، دادع ا ي ف اهل ي طعت / اهن ي ك م ت ل و ا ح ت ا م د ن ع

[SAEGW]saegw-cpl(config-sgw-service)# egtp

cause-code - Configuration to related to handling failure response from peer  
change-notification-req - Configuration related to handling change notification request  
idft-support - Enable/Disable the IDFT Feature for CUPS. By default, it is disabled  
modify-bearer-req - Configuration related to handling Modify Bearer Request

[SAEGW]saegw-cpl(config-sgw-service)# egtp

cause-code - Configuration to related to handling failure response from peer  
change-notification-req - Configuration related to handling change notification request  
idft-support - Enable/Disable the IDFT Feature for CUPS. By default, it is disabled  
modify-bearer-req - Configuration related to handling Modify Bearer Request

## ل ح ل ا

ان ه ف و ص و م ف ر ص ت ل ا ا ذ ه ب ب س و

م ي د ق ل ا ك و ل س ل ا

- IDFT ك و ل س ي ف م ك ح ت ل ل ث ر ا ل ا ي ف (CLI) ر م ا و ا ل ا ر ط س ة ه ج ا و ك ا ن ه ن ك ي م ل -

- ة م ي د ق ل ا ة ي ج م ر ب ل ا ت ا م ي ل ع ت ل ا ي ف IDFT م ع د ا م ئ ا د م ت ي -

```
[local]ESC-CP# show license information
Tuesday July 12 02:30:39 UTC 2022
Session Limits:
      Sessions  Session Type
-----
      120000    HA
      100000    GGSN
      120000    ECS
      100000    Integrated Content Filtering Service
      100000    Application Detection and Control
      100000    PGW
      100000    SGW
      100000    SAE GW Bundle
[saegw]ESC-CP(config-sgw-service)# egtp
cause-code      - Configuration to related to handling failure response from peer
change-notification-req - Configuration related to handling change notification request
modify-bearer-req - Configuration related to handling Modify Bearer Request
```

كولس CUPS:

الإدارة وفوت م ريغ اهنأ ي، صيخرتللا ي ف مكحتلل ةعضاخ (CLI) رم اوألا رطس ةهجاو نوكت -  
 صيخرتب CUPS.

- في اهلي طعت/اهني كمت نكمي - CUPS.

```
[local]ESC-CP# show license information
Tuesday July 12 02:36:59 UTC 2022
Session Limits:
      Sessions  Session Type
-----
      10000    HA
      100000    GGSN
      2000    ECS
      1000    Integrated Content Filtering Service
      1000    Application Detection and Control
      1000    PGW
      1000    SGW
      1000    SAE GW Bundle
      1000    CUPS SAEGW CP Bundle 1K/10k Sessions for ASR5k/QVPC
[saegw]ESC-CP(config-sgw-service)# egtp
cause-code      - Configuration to related to handling failure response from peer
change-notification-req - Configuration related to handling change notification request
idft-support    - Enable/Disable the IDFT Feature for CUPS. By default it is disabled
modify-bearer-req - Configuration related to handling Modify Bearer Request
```

ةمچرتل هذه لوج

ةللأل تاي نقتل نم ةومچم مادختساب دن تسمل اذہ Cisco تچرت  
ملاعلاء انءمچي فني مدختسمل معدى وتحم مي دقتل ةيرشبل او  
امك ةقيقد نوك تنل ةللأل ةمچرت لصف أن ةظحال مچري. ةصاخل مهتبل ب  
Cisco يلخت. فرتحم مچرت مامدقي يتل ةيفارتحال ةمچرتل عم لالحل وه  
ىل إأمئاد ةوچرلاب ي صؤت وتامچرتل هذه ةقد نع اهتيل وئسم Cisco  
Systems (رفوتم طبارل) يلصلأل يزي لچن إل دن تسمل