

# **HOST OPERATIONAL PROCEDURE**

## **(HOP)**

**Perangkat Network Switching  
Nortel & Juniper Network in DRC**



**DIS/PAN-04-01-00 : 12:01:00**

Oleh:



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## BAB 1. PENDAHULUAN

### 1.1. Tujuan

Dokumen ini di susun sebagai petunjuk standar pengoperasian perangkat *Network Switching* di *Data Recovery Centre* (DRC) PT. Bank Rakyat Indonesia. Diharapkan melalui dokumen ini operator dan administrator jaringan dapat memberikan solusi terhadap permasalahan yang terjadi dalam pengoperasian sehari-hari.

### 1.2. Pemakai

Dokumen ini akan digunakan oleh operator dan administrator jaringan beserta staff pendukung dari Operasional Jaringan Komunikasi BRI.

### 1.3. Pengontrolan Versi

*Host Operational Procedure Data Recovery Centre* (HOP-DRC) *Network Switching* merupakan sarana atau alat manajemen BRI dan PT. Wahana Cipta Sinatria untuk melakukan pengendalian terhadap kesinambungan operasional jaringan, baik jaringan komunikasi antara *Data Centre* (DC) dengan *Data Recovery Centre* (DRC) maupun jaringan LAN-DRC itu sendiri.

#### 1.3.1 Penjelasan Nomor Versi Dokumen

Nomor versi dokumen ini terbentuk dalam model **yy.vv.mm** yang akan dijelaskan sebagai berikut :

1. **yy** menyatakan 2 digit tahun yang berjalan, misal tahun berjalan 2008 maka di tulis 08, 2009 di tulis 09, dan seterusnya.
2. **vv** menyatakan nomor versi. Nomor versi hanya berubah apabila dokumen HOP ini menambah bagian baru, baik itu bab maupun sub bab baru.
3. **mm** menyatakan nomor modifikasi. Nomor modifikasi hanya berubah apabila dokumen SOP ini dirubah isinya, baik itu berupa kata-kata ataupun panduan tentang suatu pekerjaan tetapi perubahan itu sendiri tidak menambah bab atau sub bab baru.

### 1.3.2 Perubahan Pada Dokumen

Setiap perubahan pada dokumen HOP ini harus menggunakan Form Permintaan Perubahan (*Change Request Form*) yang disetujui pihak OJK dan ODR BRI. Setiap perubahan pada dokumen ini juga harus merubah versi dan modifikasi sehingga memudahkan dalam tracking perubahan yang terjadi pada dokumen ini. Bagian atau halaman yang tidak berlaku diganti dengan bagian atau halaman yang sudah diubah.

Setiap perubahan dari dokumen ini juga harus di catat pada tabel di bawah ini :

**Berikut adalah tabel detail perubahan isi yang sudah dilakukan.**

No. QAP	Tanggal	Keterangan Perubahan	PIC
DIS/PAN-04-01-00: 09:00:00	30/01/2009	HOP WCS DRC berdasarkan SURAT KEPUTUSAN NO.KEP:194-DIR/TSI/01/2009 tentang Standard Operational Procedure Data Center Divisi Teknologi Informasi RI	
DIS/PAN-04-01-00: 10:01:01	1/10/2010	<p>a. Perubahan Editorial :</p> <ul style="list-style-type: none"><li>▪ 72 Poin Penambahan Sub-Judul, 3 Poin Penambahan Judul dan 1 Poin Penambahan Halaman Lampiran</li><li>▪ 8 Poin Perubahan Poin dan Sub-Judul, 6 Poin Perubahan Poin Sub-Judul dan 2 Poin Perubahan Judul BAB</li></ul> <p>b. Perubahan Isi :</p> <ul style="list-style-type: none"><li>▪ 1 Poin Perubahan Isi</li><li>▪ 17 Poin Penghapusan Sub-Judul</li></ul>	
DIS/PAN-04-01-00: 11:00:00	25/04/2011	▪ 4 Poin Perubahan Isi	
DIS/PAN-04-01-00: 11:00:01	16/12/2011	▪ 3 Poin Perubahan Isi	
DIS/PAN-04-01-00: 12:00:01	24/05/2012	▪ 5 Poin Perubahan Isi	
DIS/PAN-04-01-00: 12:01:00	01/10/2012	▪ 2 Poin Perubahan isi	

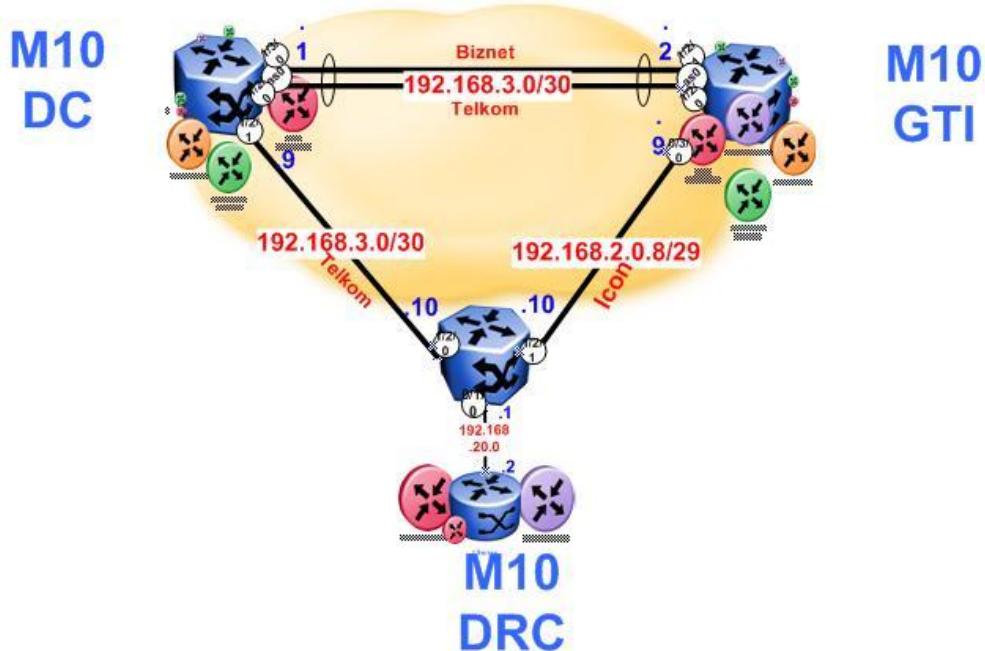
### 1.3.3 Penjelasan Perubahan Isi

Penjelasan Perubahan Isi	
No	DIS/PAN-04-01-00: 12:01:00, 1 Oktober 2012
1	<p>Perubahan isi <b>BAB 2. UMUM point 2.1 Overview</b></p> <p>Update topologi triangle GTI – DRC – Sudirman ke versi terbaru</p>
2	<p>Perubahan isi <b>BAB 3. PROSEDUR OPERASIONAL</b></p> <p>Penambahan point <b>3.1.9 Catalyst 4503</b></p> <p>Perubahan point <b>3.3 Mengisi Ceklis BRI</b></p> <p>Ceklis Harian yang lama direvisi dengan versi yang baru</p> <p>Penambahan point <b>3.5 Kompresi Replikasi</b></p> <p>Penambahan point <b>3.7 Preventive Maintenance</b></p>

## BAB 2. UMUM

### 2.1 Overview

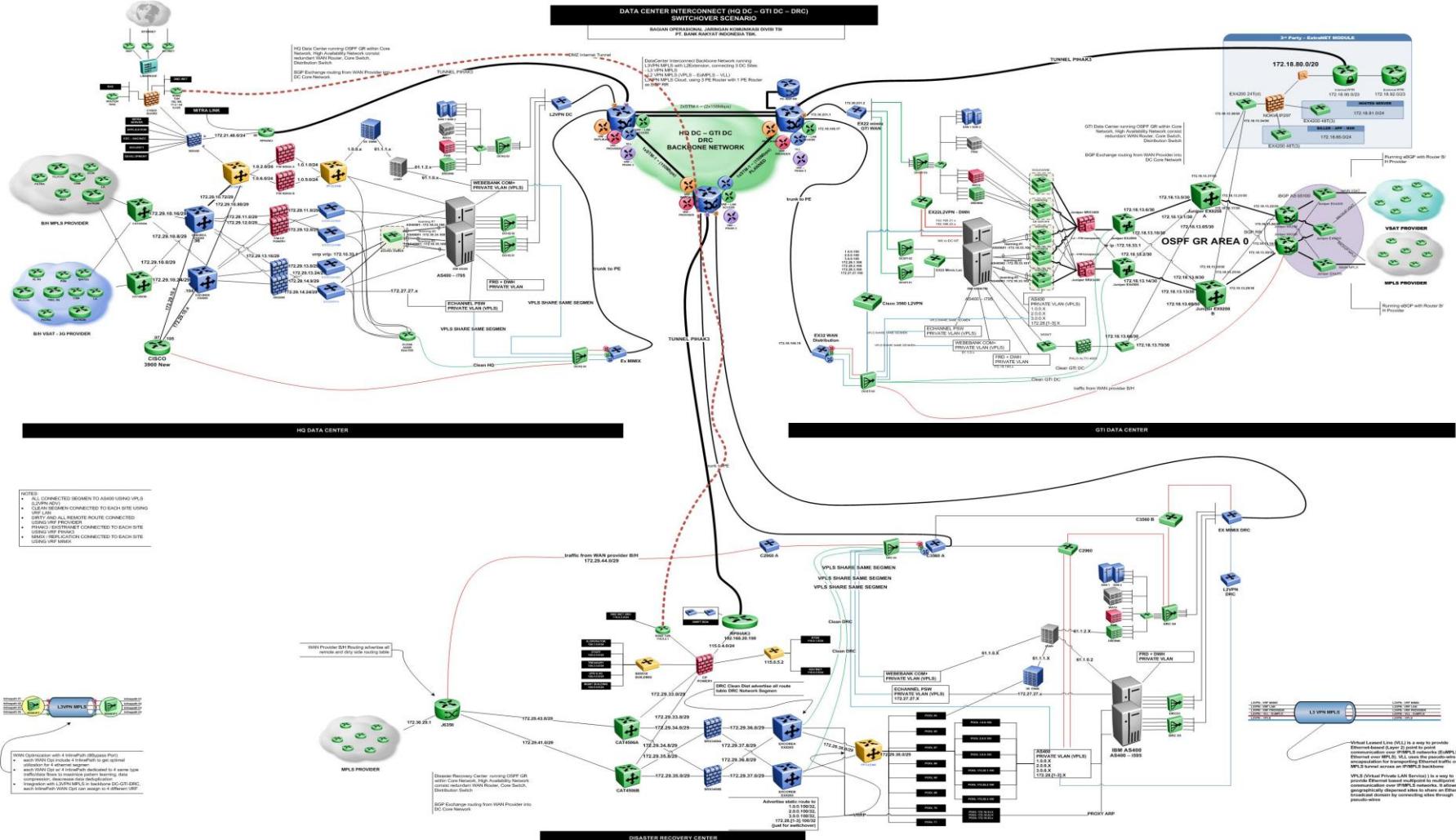
Jaringan komunikasi Disaster Recovery Center (DRC) PT. Bank Rakyat Indonesia Tbk menggunakan 2 link STM-1, yaitu: Link STM-1 yang mengarah ke Sudirman melalui Gandul PT. Telkom, dan Link STM-1 yang mengarah ke GTI melalui Gandul PT. Icon+ .





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## **Link STM1 DRC-DC-GTI**



Ruang lingkup pekerjaan PT. Wahana Cipta Sinatria untuk proyek Maintenance Network Switching di BRI-DRC, sebagai berikut :

## 2.2 Maintenance & Operasional Konektivitas Jaringan LAN-DRC

- Passport 8600

Passport 8600 digunakan untuk koneksi ke server-server yang berada di gedung BRI-DRC.

- EX8200

EX8200 digunakan untuk koneksi ke server-server yang berada di gedung BRI-DRC.

- EX3200

EX3200 digunakan untuk koneksi ke perangkat-perangkat Wide Area Application dan koneksi ke Mesin AS/400 untuk Aplikasi MIMIX.

- BayStack 420

BayStack 420 digunakan untuk koneksi ke User yang berada di gedung BRI.

- BayStack 5510

BayStack 5510 digunakan untuk koneksi ke User yang berada di gedung BRI-DRC melalui BayStack 420.

## 2.3 Maintenance & Operasional Konektivitas Jaringan DC-DRC

BCN (Backbone Concentrator Node)

BCN digunakan sebagai Gateway koneksi DRC-DC. BCN ini terkoneksi ke Passport 7400 untuk komunikasi ke DC, terkoneksi ke Juniper M10i kemudian ke EX3200 untuk aplikasi NetApp, terkoneksi ke CISCO 2621XM untuk VoIP.

Juniper M10i

Juniper M10i digunakan sebagai Gateway koneksi DRC-DC. Juniper M10i ini terkoneksi dengan jaringan link Telkom ( STM 1 ).



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## 2.4 Sistem Reporting.

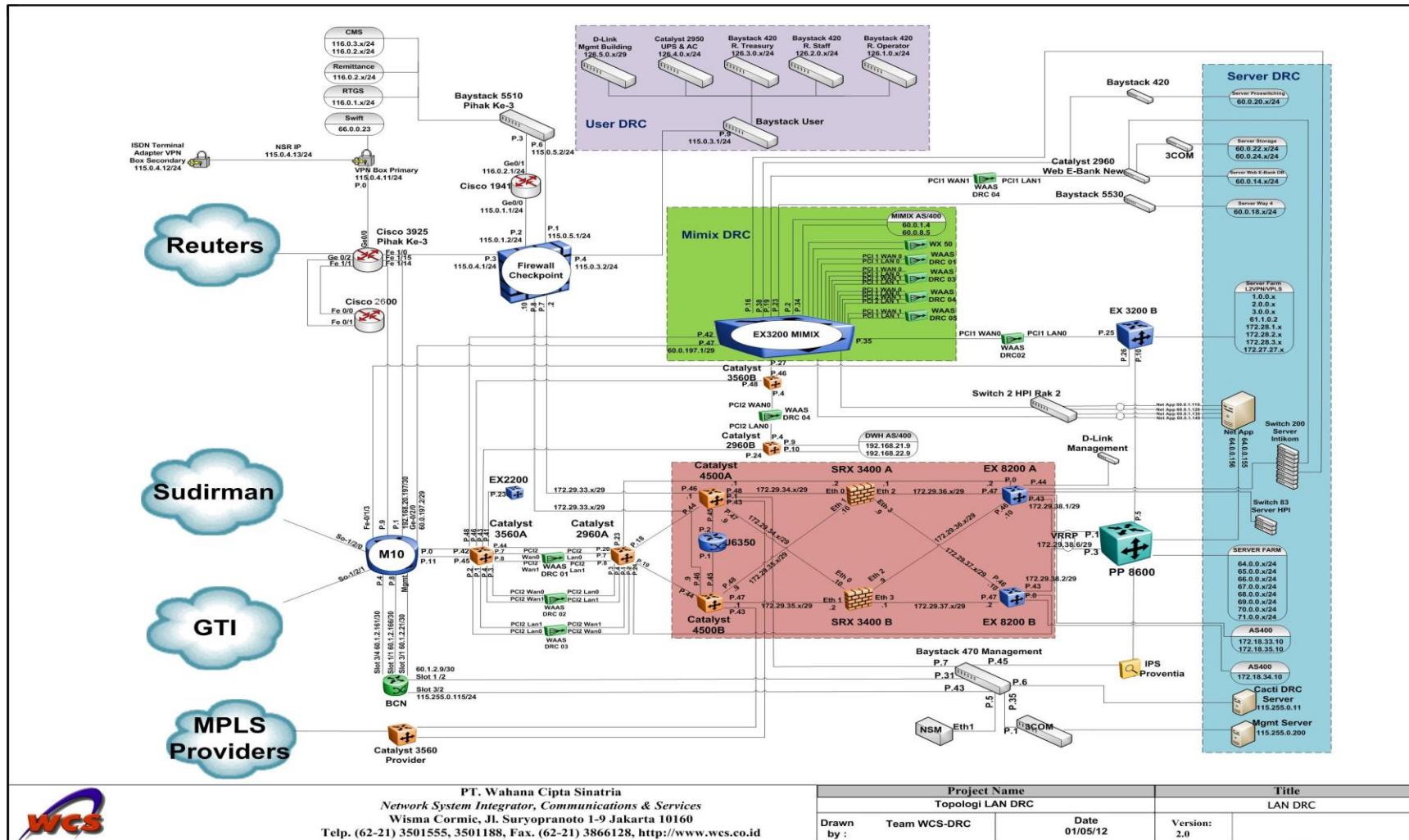
### Laporan Harian (*Daily Report*)

Laporan Harian dibuat setiap hari dengan format ekstensi doc dan dikirim melalui email ke [dailyops\\_wcs@bri.co.id](mailto:dailyops_wcs@bri.co.id) dan di copy carbon (cc) ke [tsi\\_odr@bri.co.id](mailto:tsi_odr@bri.co.id); [agoeng@bri.co.id](mailto:agoeng@bri.co.id); [dani.wf@corp.bri.co.id](mailto:dani.wf@corp.bri.co.id); [techspv@ipnetsolusindo.com](mailto:techspv@ipnetsolusindo.com) sebelum jam 07:30 WITA.

### Laporan Bulanan (*Monthly Report*)

Laporan Bulanan dibuat dalam bentuk format ekstensi doc ( berupa *softcopy* dan *hardcopy*) dan hardcopy diserahkan ke Supervisor BRI-DRC sebelum tanggal 10 bulan berikutnya. Untuk softcopy disimpan didalam server IP 126.2.0.197 dan dikirimkan melalui email ke [dailyops\\_wcs@bri.co.id](mailto:dailyops_wcs@bri.co.id) ; [dani.wf@corp.bri.co.id](mailto:dani.wf@corp.bri.co.id) dan di copy carbon (cc) ke [tsi\\_odr@bri.co.id](mailto:tsi_odr@bri.co.id) ; [johan@ipnetsolusindo.com](mailto:johan@ipnetsolusindo.com)

## 2.5 Network Diagram LAN-DRC

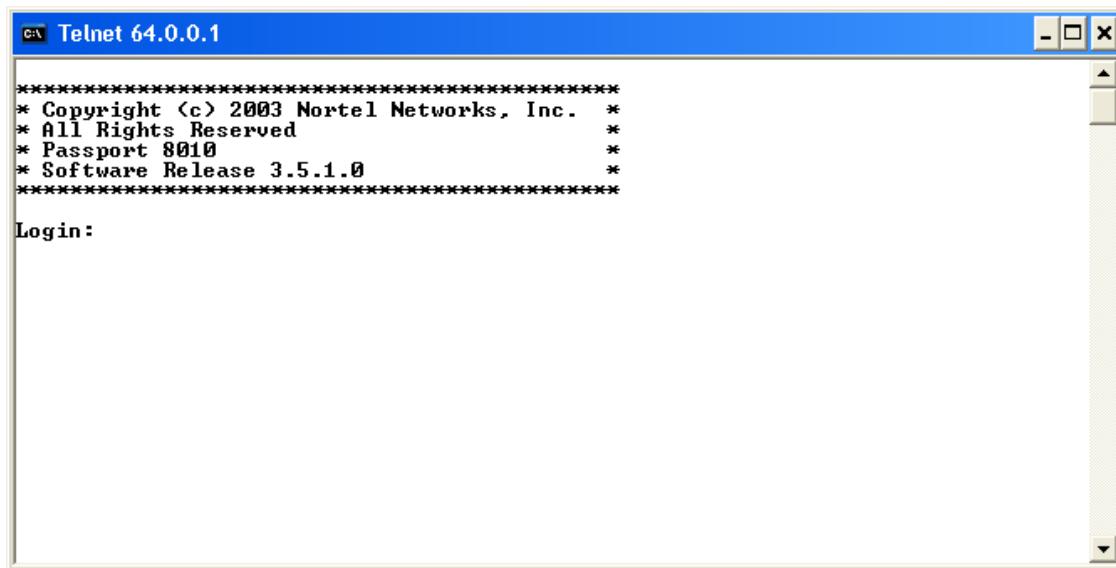


## BAB 3. PROSEDUR OPERASIONAL

### 3.1 Monitoring Perangkat Network Switching

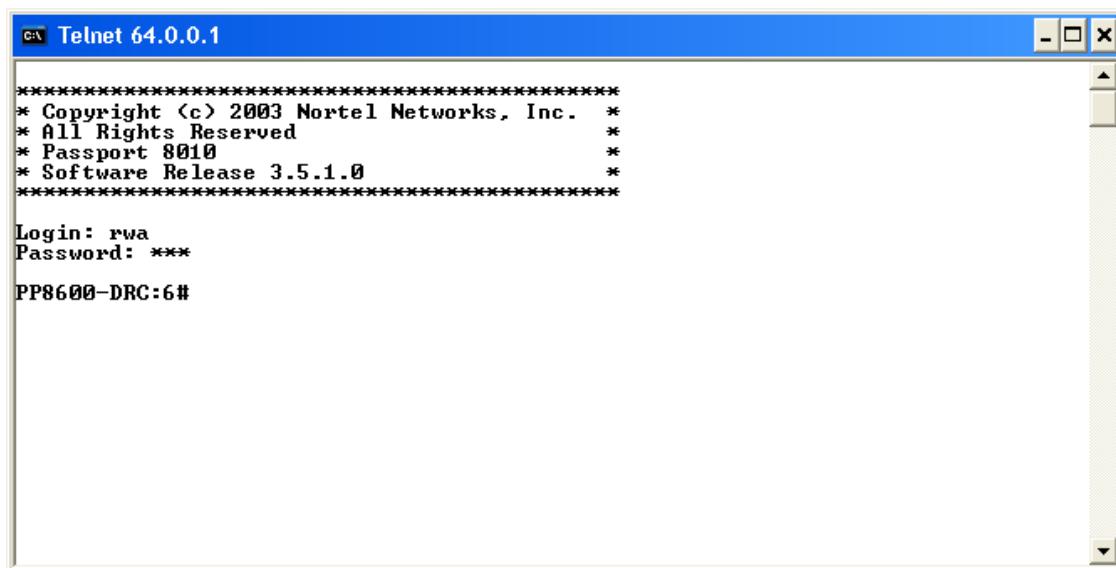
#### 3.1.1. Nortel Passport 8600

Untuk dapat melihat konfigurasi atau mengkonfigur Passport 8600, user harus login ke Passport 8600 terlebih dahulu dengan cara console atau telnet ke Passport 8600.



A screenshot of a Windows Telnet window titled "Telnet 64.0.0.1". The window displays the following text:  
\*\*\*\*\*  
\* Copyright (c) 2003 Nortel Networks, Inc. \*  
\* All Rights Reserved \*  
\* Passport 8010 \*  
\* Software Release 3.5.1.0 \*  
\*\*\*\*\*  
Login:

Masukkan username dan Password.



A screenshot of a Windows Telnet window titled "Telnet 64.0.0.1". The window displays the following text:  
\*\*\*\*\*  
\* Copyright (c) 2003 Nortel Networks, Inc. \*  
\* All Rights Reserved \*  
\* Passport 8010 \*  
\* Software Release 3.5.1.0 \*  
\*\*\*\*\*  
Login: rwa  
Password: \*\*\*  
PP8600-DRC:6#

### 3.1.1.1 LED Indikator Module Passport 8600

Secara fisik kondisi perangkat dapat dilihat dari LED indikator, walaupun informasi yang diberikan terbatas tapi ini cukup membantu pada saat *troubleshooting* secara *hardware*.

#### Led Indikator Module 8648TX

LED	Warna	Deskripsi
Speed	Off	10 Mbps
	Hijau	100 Mbps
Link/Act	Off	Port disable/tidak ada link
	Hijau	Link bagus, tidak ada traffic
	Hijau ( <i>blinking</i> )	Port melewatkkan paket masuk dan keluar
Online	Off	Modul tidak berfungsi
	Orange ( <i>blinking</i> )	Initialisasi
	Hijau	Initialisasi komplit
	Amber	Modul gagal melakukan <i>self-test</i>

#### Led Indikator Module 8624FX

LED	Warna	Deskripsi
Link/Act	Off	Port <i>disable</i> /tidak ada link
	Hijau	Link bagus, tidak ada traffic
	Hijau ( <i>blinking</i> )	Port melewatkkan paket masuk dan keluar
Online	Off	Modul tidak berfungsi
	Orange ( <i>blinking</i> )	Initialisasi
	Hijau	Initialisasi komplit
	Amber	Modul gagal melakukan self test

### Led Indikator Modul 8608SX

	LED	Warna	Deskripsi
RX		Off	Port disable/tidak ada link
		Orange	Link tidak sinkron
		Hijau	Link bagus, tidak ada traffic
TX		Hijau ( <i>blinking</i> )	Port menerima paket masuk
		Off	Port tidak terdeteksi
		Orange	Line fault atau perangkat remote
On-line		Hijau ( <i>blinking</i> )	Port transmit data
		Off	Modul tidak berfungsi
		Orange ( <i>blinking</i> )	Initialisasi
		Hijau	Initialisasi komplit
		Amber	Modul gagal melakukan self test

#### 3.1.1.2 Melihat Performance Passport 8600

Command :

**PP8600-DRC:6# sh sys perf**

```
cn Telnet 64.0.0.1
PP8600-DRC:6# show sys perf
      CpuUtil: 0%
      SwitchFabricUtil: 0%
      OtherSwitchFabricUtil: 0%
      BufferUtil: 0%
      DramSize: 256 M
      DramUsed: 15 %
      DramFree: 221788 K
PP8600-DRC:6# _
```

### 3.1.1.3 Melihat Kecepatan (Speed) dari Port Ethernet Passport 8600

Command :

*PP8600-DRC:6# Show ports info config*

```

Telnet 64.0.0.1
PP8600-DRC:6# show ports info config
=====
Port Config
=====

PORT      AUTO    SFFD   ADMIN  DUPLEX  SPD   OPERATE  DIFF-SERV
NUM       TYPE    NEG.   DULPX  SPD    DULPX  SPD    EN      TYPE   QOS  MLT  VENDO
-----  -----  -----  -----  -----  -----  -----  -----  -----
1/1      100BaseTX  true   false  half   10     0      fals   core   1    0
1/2      100BaseTX  true   false  half   10     0      fals   core   1    0
1/3      100BaseTX  true   false  half   10     0      fals   core   1    0
1/4      100BaseTX  true   false  half   10     0      fals   core   1    0
1/5      100BaseTX  true   false  half   10     0      fals   core   1    0
1/6      100BaseTX  true   false  half   10     0      fals   core   1    0
1/7      100BaseTX  true   false  half   10     0      fals   core   1    0
1/8      100BaseTX  false  false  half  100    half   100    fals   core   1    0
1/9      100BaseTX  true   false  half  100    full   100    fals   core   1    0
1/10     100BaseTX  false  false  half  100    half   100    fals   core   1    0
1/11     100BaseTX  true   false  half  100    full   100    fals   core   1    0
1/12     100BaseTX  false  false  half  100    half   100    fals   core   1    0
1/13     100BaseTX  false  false  half  100    half   100    fals   core   1    0
1/14     100BaseTX  false  false  half  100    half   100    fals   core   1    0
1/15     100BaseTX  true   false  half  10     full   100    fals   core   1    0

--More-- (q = quit)

```

### 3.1.1.4 Melihat Traffic Error

Command :

*PP8600-DRC:6# show ports error collision*

```

Telnet 64.0.0.1
PP8600-DRC:6# show ports error collision
=====
Port Ethernet Collision Error
=====

PORT      SINGLE    MULTIPLE    COLLISIONS    EXCESSIVE
NUM       -----    -----    -----    -----
-----  -----  -----  -----  -----
1/1      0          0          0          0
1/2      0          0          0          0
1/3      0          0          0          0
1/4      0          0          0          0
1/5      0          0          0          0
1/6      0          0          0          0
1/7      0          0          0          0
1/8      72016      1274       77595      0
1/9      0          0          0          0
1/10     10071      1229       52086      0
1/11     0          0          0          0
1/12     52          27         788        0
1/13     8091       6090       1183       0
1/14     7211       4156       5          0
1/15     0          0          0          0
1/16     0          0          0          0

--More-- (q = quit)

```



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Command :

**PP8600-DRC:6# show ports error extended**

```
ev Telnet 64.0.0.1
PP8600-DRC:6# show ports error extended
=====
Port Ethernet Error Extended
=====
PORT MAC_RX MAC_TX DIFFER PACKET LINK UNKNOWN IN OUT
NUM ERRORS ERRORS TX ERRORS INACTIV PROTOS FLWCTRL FLWCTRL
1/1 0 0 0 0 0 0 0 0
1/2 0 0 0 0 0 0 0 0
1/3 0 0 0 0 0 0 0 0
1/4 0 0 0 0 0 0 0 0
1/5 0 0 0 0 0 0 0 0
1/6 0 0 0 0 0 0 0 0
1/7 0 0 0 0 0 0 0 0
1/8 0 0 571365 0 0 0 0 0
1/9 0 0 0 0 0 0 0 0
1/10 0 0 12581 0 0 0 0 0
1/11 0 0 0 0 0 0 0 0
1/12 0 0 83 0 0 0 0 0
1/13 0 0 6947 0 0 0 0 0
1/14 0 0 1391 0 0 0 0 0
1/15 0 0 0 0 0 0 0 0
1/16 0 0 0 0 0 0 0 0
--More-- (q = quit)
```

Command :

**PP8600-DRC:6# show ports error main**

```
ev Telnet 64.0.0.1
PP8600-DRC:6# show ports error main
=====
Port Ethernet Error
=====
PORT ERROR ERROR FRAMES TOO LINK CARRIER CARRIER SQTEST
NUM ALIGN FCS LONG SHORT FAILURE SENSE ERRORS ERRORS
1/1 0 0 0 0 1 0 0 0
1/2 0 0 0 0 1 0 0 0
1/3 0 0 0 0 1 0 0 0
1/4 0 0 0 0 1 0 0 0
1/5 0 0 0 0 1 0 0 0
1/6 0 0 0 0 1 0 0 0
1/7 0 0 0 0 2 0 0 0
1/8 0 1 0 6122 0 1 0 0
1/9 0 0 0 0 13 21 0 0
1/10 0 0 0 3847 0 1 0 0
1/11 0 0 0 23 163 182 0 0
1/12 0 0 0 26 0 1 0 0
1/13 0 1 0 2797 14 15 0 0
1/14 0 0 0 30 21 22 0 0
1/15 0 0 0 0 18 18 0 0
1/16 0 0 0 0 1 0 0 0
--More-- (q = quit)
```

### 3.1.1.5 Melihat Port yang Aktif dan Non-aktif

Command :

*PP8600-DRC:6# show ports info interface*

```

Telnet 64.0.0.1
PP8600-DRC:6# show ports info interface
=====
Port Interface
=====
PORT INDEX DESCRIPTION LINK TRAP PORT LOCK MTU PHYSICAL ADDRESS STATUS
NUM      DESCRIPTION      TRAP   LOCK    MTU   ADDRESS   ADMIN   OPERATE
1/1      64     100BaseTX  true   false   1950  00:11:f9:12:d0:00 up      down
1/2      65     100BaseTX  true   false   1950  00:11:f9:12:d0:01 up      down
1/3      66     100BaseTX  true   false   1950  00:11:f9:12:d0:02 up      down
1/4      67     100BaseTX  true   false   1950  00:11:f9:12:d0:03 up      down
1/5      68     100BaseTX  true   false   1950  00:11:f9:12:d0:04 up      down
1/6      69     100BaseTX  true   false   1950  00:11:f9:12:d0:05 up      down
1/7      70     100BaseTX  true   false   1950  00:11:f9:12:d0:06 up      down
1/8      71     100BaseTX  true   false   1950  00:11:f9:12:d0:07 up      up
1/9      72     100BaseTX  true   false   1950  00:11:f9:12:d0:08 up      up
1/10     73     100BaseTX  true   false   1950  00:11:f9:12:d0:09 up      up
1/11     74     100BaseTX  true   false   1950  00:11:f9:12:d0:0a up      up
1/12     75     100BaseTX  true   false   1950  00:11:f9:12:d0:0b up      up
1/13     76     100BaseTX  true   false   1950  00:11:f9:12:d0:0c up      up
1/14     77     100BaseTX  true   false   1950  00:11:f9:12:d0:0d up      up
1/15     78     100BaseTX  true   false   1950  00:11:f9:12:d0:0e up      up

--More-- (q = quit)

```

### 3.1.1.6 Melihat IP VLAN

Command :

*PP8600-DRC:6# show vlan info ip*

```

Telnet 64.0.0.1
PP8600-DRC:6# show vlan info ip
=====
Vlan Ip
=====
VLAN IP          NET      BCASTADDR REASM   ADVERTISE  DIRECTED
ID  ADDRESS      MASK     FORMAT    MAXSIZE WHEN_DOWN BROADCAST
40   64.0.0.1    255.255.255.0 ones     1500      disable    enable
50   65.0.0.1    255.255.0.0  ones     1500      disable    enable
60   66.0.0.1    255.255.0.0  ones     1500      disable    enable
1000 115.0.2.1  255.255.255.0 ones     1500      disable    enable

PP8600-DRC:6#

```

### 3.1.1.7 Melihat Nama VLAN

Command :

*PP8600-DRC:6# show vlan info basic*

```

Telnet 64.0.0.1
PP8600-DRC:6# show vlan info basic
=====
          Vlan Basic
=====
VLAN
ID  NAME      TYPE     STG
ID  PROTOCOLID SUBNETADDR   SUBNETMASK
1   Default   byPort   1   none      N/A        N/A
40  Pool-1    byPort   1   none      N/A        N/A
50  Pool-2    byPort   1   none      N/A        N/A
60  Pool-3    byPort   1   none      N/A        N/A
1000 Security byPort   1   none      N/A        N/A
PP8600-DRC:6# 

```

### 3.1.1.8 Melihat Port Anggota VLAN

Command :

*PP8600-DRC:6# show vlan info port*

```

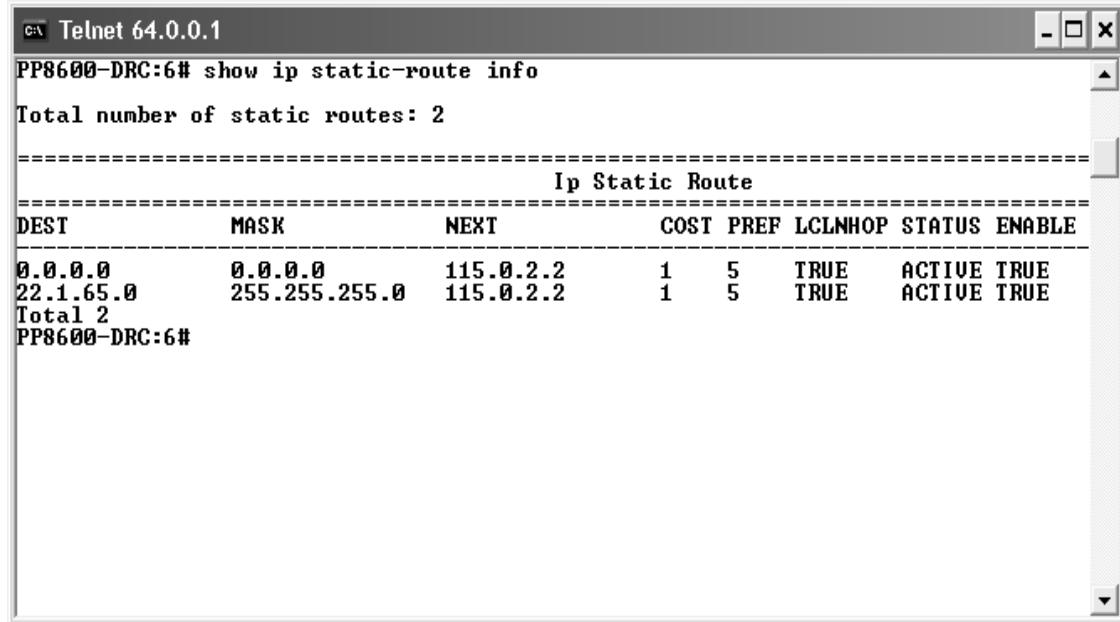
Telnet 64.0.0.1
PP8600-DRC:6# show vlan info port
=====
          Vlan Port
=====
VLAN PORT
ID MEMBER      ACTIVE MEMBER      STATIC MEMBER      NOT_ALLOW MEMBER
1   3/1-3/7    3/1-3/7
40  1/1-1/20   1/1-1/20
50  1/21-1/32  1/21-1/32
60  1/33-1/46  1/33-1/46
1000 3/8       3/8
=====
          Vlan ATM vPort
=====
VLAN ID      PORT NUM      PVC LIST
=====
--More-- (q = quit)

```

### 3.1.1.9 Melihat Static Route

Command :

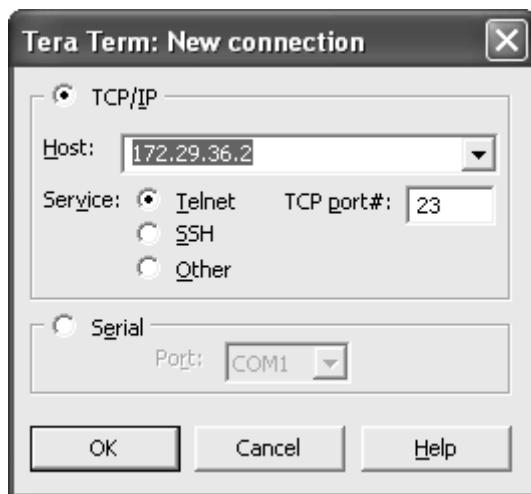
*PP8600-DRC:6# show ip static-route info*



```
PP8600-DRC:6# show ip static-route info
Total number of static routes: 2
=====
          Ip Static Route
=====
DEST        MASK        NEXT        COST  PREF LCLNHOP STATUS ENABLE
0.0.0.0      0.0.0.0    115.0.2.2    1     5    TRUE    ACTIVE TRUE
22.1.65.0    255.255.255.0 115.0.2.2    1     5    TRUE    ACTIVE TRUE
Total 2
PP8600-DRC:6#
```

### 3.1.2. EX8200

Untuk dapat melihat konfigurasi atau mengkonfigurasi Juniper EX8200, user harus login ke Juniper EX8200 terlebih dahulu dengan cara console atau telnet ke Juniper EX8200.



EX8208 A



EX8208 B

Kemudian masukkan username dan password.

Setiap perubahan konfigurasi atau permintaan perubahan konfigurasi atau permintaan informasi mengenai konfigurasi perangkat Juniper EX8200 harus disetujui oleh Bagian Operasional Jaringan Komunikasi BRI-DC.

Berikut beberapa *command line interface* yang bersifat monitoring pada Juniper EX8200 yang umum digunakan pada proyek Pemasangan Perangkat *Network Switching* BRI.

#### 3.1.2.1 Melihat IP Interfaces

Command :

```
ipnet@EX82DRC @% cli  
ipnet@EX82DRC > configure  
ipnet@EX82DRC# run show interfaces terse / match inet  
ge-0/0/0.0          up  up      inet  126.1.0.254/24  
ge-0/0/20.0         up  down    inet  100.100.100.1/24  
bme0.32768         up  up      inet  128.0.0.1/2
```

### 3.1.2.2 Melihat Status Interfaces

Command :

```
ipnet@EX82DRC# run show interfaces terse
```

Interface	Admin	Link	Proto	Local	Remote
ge-0/0/0	up	up			
ge-0/0/0.0	up	up	inet	126.1.0.254/24	
ge-0/0/1	up	down			
ge-0/0/1.0	up	down	eth-switch		
ge-0/0/2	up	down			
ge-0/0/2.0	up	down	eth-switch		
ge-0/0/3	up	down			
ge-0/0/3.0	up	down	eth-switch		
ge-0/0/4	up	down			

### 3.1.2.3 Melihat Konfigurasi Yang sedang Berjalan

Command :

```
ipnet@EX82DRC# run show configuration
## Last commit: 2009-02-08 03:27:42 UTC by ipnet
version "9.2I0.1 [builder]";
system {
    host-name EX32-MIMIX;
    root-authentication {
        encrypted-password "$1$7jGQ5K.x$XT5c6E70ekIjWPOQECffI.";
## SECRET-DATA
    }
    login {
        user ipnet {
            uid 2002;
            class super-user;
            authentication {
                encrypted-password
                "$1$9hhAoqqw$LHCi.XupFgCw3n9JCBVkj0"; ## SECRET-DATA

```

```
        }
    }
user juniper {
    uid 2003;
    class super-user;
    authentication {
        encrypted-password
    "$1$ou.n.i0A$nW5gjI/KN0nEwYKEWw.vw/"; ## SECRET-DATA
    }
---(more)---
```

### 3.1.2.4 Melihat Routing

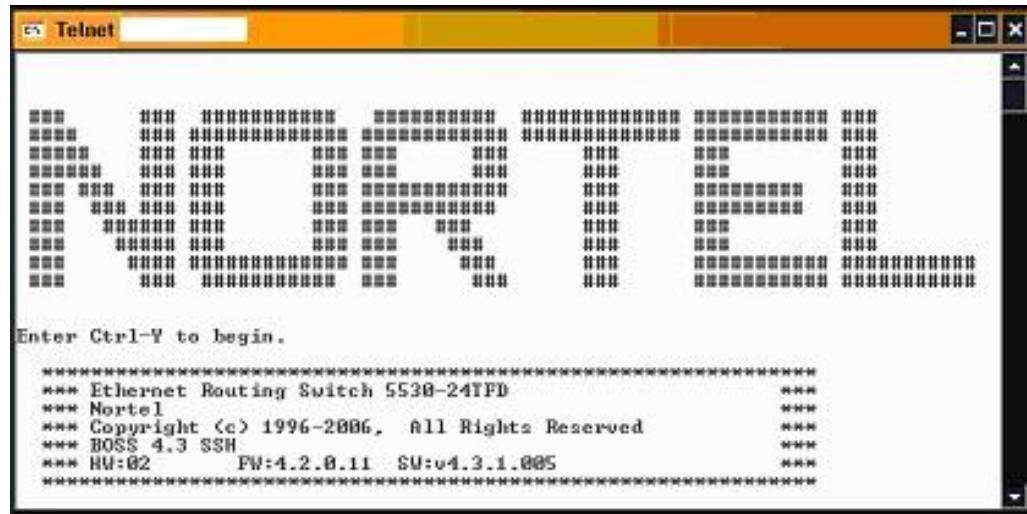
Command :

```
ipnet@EX82DRC # run show route / no-more
inet.0: 17 destinations, 17 routes (17 active, 0 holddown, 0 hidden)
+ = Active Route, - = Last Active, * = Both
```

```
0.0.0.0/0      *[Static/5] 3w4d 16:20:04
                > to 60.0.197.2 via vlan.200
60.0.1.0/24    *[Direct/0] 3w4d 16:33:09
                > via vlan.2
60.0.1.1/32    *[Local/0] 3w4d 16:33:16
                Local via vlan.2
60.0.4.0/24    *[Direct/0] 3w4d 16:33:08
                > via vlan.3
60.0.4.1/32    *[Local/0] 3w4d 16:33:16
                Local via vlan.3
60.0.6.0/24    *[Direct/0] 3w4d 16:32:28
                > via vlan.4
```

### 3.1.3 Nortel Baystack 5530 dan Baystack 5510

Untuk dapat melihat konfigurasi atau mengkonfigurasi Baystack 5530 atau Baystack 5510, user harus login ke Baystack 5530 atau Baystack 5510 terlebih dahulu dengan cara console atau telnet ke Baystack 5530 atau Baystack 5510.



Tekan CTRL + Y dan isi password.



Setiap perubahan konfigurasi atau permintaan perubahan konfigurasi atau permintaan informasi mengenai konfigurasi perangkat Baystack 5530 atau Baystack 5510 harus disetujui oleh Bagian Operasional Jaringan Komunikasi BRI-DC.

Berikut beberapa *command line interface* yang bersifat monitoring pada Baystack 5530 atau Baystack 5510 yang umum digunakan pada proyek Pemasangan Perangkat Network Switching BRI.

### 3.1.3.1 LED Indikator BayStack 5530 dan 5510

**LED Indicator BayStack 5530**

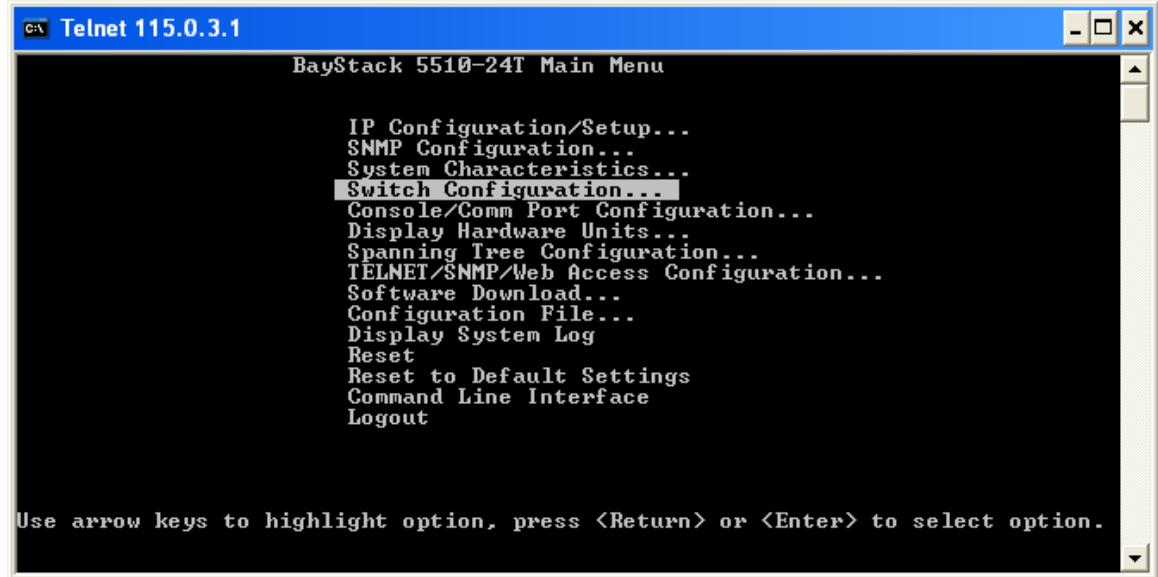
Label	Warna/Status	Deskripsi
Power On	Hijau Off	Dapat tegangan listrik Tidak dapat tegangan listrik
Setelah 20 detik dari saat power on	Hijau Off	Power on self-test complete dan switch bekerja normal Switch gagal melakukan self-test
Base	Hijau Orange Off	Switch adalah base unit Stack error Switch bukan base unit atau bekerja dalam mode standalone
Speed	Hijau Orange	1000 Mbps 100 Mbps
Link/Act	Hijau Blinking	Port sedang Receive and Transmit data

**LED Indicator BayStack 5510**

Label	Warna/Status	Deskripsi
Power On	Hijau Off	Dapat tegangan listrik Tidak dapat tegangan listrik
Setelah 20 detik dari saat power on	Hijau Off	Power on self-test complete dan switch bekerja normal Switch gagal melakukan self-test
Base	Hijau Orange Off	Switch adalah base unit Stack error Switch bukan base unit atau bekerja dalam mode standalone
Speed	Hijau Orange	100 Mbps 10 Mbps
Link/Act	Hijau Blinking	Port sedang Receive and Transmit data

### 3.1.3.2 Melihat IP VLAN

Masuk ke Command Line Interface



BS5510-DRC#show vlan ip

Id	ifIndex	Address	Mask	MacAddress	Offset
2	10002	126.1.0.1	255.255.255.0	00:11:F9:98:78:41	2
3	10003	126.2.0.1	255.255.255.0	00:11:F9:98:78:42	3
4	10004	126.3.0.1	255.255.255.0	00:11:F9:98:78:43	4
5	10005	115.0.3.1	255.255.255.0	00:11:F9:98:78:44	5
6	10006	126.4.0.1	255.255.255.0	00:11:F9:98:78:45	6
7	10007	126.5.0.1	255.255.255.248	00:11:F9:98:78:40	1
200	10200	60.3.0.1	255.255.255.0	00:11:F9:98:78:46	7
201	10201	100.100.100.1	255.255.255.0	00:11:F9:98:78:47	8

### 3.1.3.3 Melihat VLAN

Masuk ke Command Line Interface

BS5510-DRC#show vlan

Id	Name	Type	Protocol	User PID Active IVL/SVL Mgmt			
1	VLAN #1	Port	None	0x0000	Yes	IVL	No
	Port Members: 1-24						
2	Operator	Port	None	0x0000	Yes	IVL	No
	Port Members: 2-4						
3	Staff	Port	None	0x0000	Yes	IVL	No
	Port Members: 5-6,12-16,18-19						
4	HelpDesk	Port	None	0x0000	Yes	IVL	No
	Port Members: 7-8						
5	Firewall	Port	None	0x0000	Yes	IVL	No
	Port Members: 9-10						



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6	EMS	Port	None	0x0000	Yes	IVL	No
Port Members: 11							
7	VLAN #7	Port	None	0x0000	Yes	IVL	Yes
Port Members: 17							
8	VLAN 8	Port	None	0x0000	Yes	IVL	No
Port Members: 20							
200	VLAN #	Port	None	0x0000	Yes	IVL	No
Port Members: 21							
201	VLAN #201	Port	None	0x0000	Yes	IVL	No
Port Members: 22							
BS5510-DRC#							

### 3.1.3.4 Melihat Routing Table

Masuk ke Command Line Interface

BS5510-DRC#*show ip route*

Ip Route							
DST TYPE	MASK	NEXT	COST	VLAN	PORT	PROT	
172.0.0.0	255.0.0.0	115.0.3.2	1	VLAN5	9	S	IB
131.0.0.0	255.0.0.0	115.0.3.2	1	VLAN5	9	S	IB
126.5.0.0	255.255.255.248	126.5.0.1	1	VLAN7	---	C	DB
126.4.0.0	255.255.255.0	126.4.0.1	1	VLAN6	---	C	DB
126.3.0.0	255.255.255.0	126.3.0.1	1	VLAN4	---	C	DB
126.2.0.0	255.255.255.0	126.2.0.1	1	VLAN3	---	C	DB
126.1.0.0	255.255.255.0	126.1.0.1	1	VLAN2	---	C	DB
115.0.3.0	255.255.255.0	115.0.3.1	1	VLAN5	---	C	DB
Total Routes: 51							

TYPE Legend:

I=Indirect Route, D=Direct Route, A=Alternative Route, B=Best Route,

E=Ecmp Rou

te, U=Unresolved Route, N=Not in HW

BS5510-DRC#

### 3.1.3.5 Melihat Static Route

BS5510-DRC#*show ip route static*

Ip Static Route								
DEST	MASK	NEXT	COST	PREF	LCLN	HOP	STATUS	ENABLE
172.100.30.0	255.255.255.252	172.100.0.2	1	1	TRUE	INACTV	TRUE	
172.30.2.0	255.255.255.252	172.100.0.2	1	1	TRUE	INACTV	TRUE	
0.0.0.0	0.0.0.0	172.100.0.2	1	1	TRUE	INACTV	TRUE	
172.0.0.0	255.0.0.0	115.0.3.2	1	1	TRUE	ACTIVE	TRUE	
131.0.0.0	255.0.0.0	115.0.3.2	1	1	TRUE	ACTIVE	TRUE	
116.0.1.0	255.255.255.0	115.0.3.2	1	1	TRUE	ACTIVE	TRUE	
115.255.0.0	255.255.255.0	115.0.3.2	1	1	TRUE	ACTIVE	TRUE	
115.0.4.0	255.255.255.0	115.0.3.2	1	1	TRUE	ACTIVE	TRUE	
115.0.0.0	255.0.0.0	115.0.3.2	1	1	TRUE	ACTIVE	TRUE	

Total Routes: 46

BS5510-DRC#

### 3.1.3.6 Melihat Status Interface

BS5510-DRC#*show interfaces*

Port	Trunk	Status			Auto	Flow			
		Admin	Oper	Link		Negotiation	Speed	Duplex	Control
1		Enable	Down	Down	Enabled	Enabled			
2		Enable	Up	Up	Enabled	Enabled	1000Mbps	Full	Disable
3		Enable	Up	Up	Enabled	Enabled	100Mbps	Full	
4		Enable	Up	Up	Enabled	Enabled	100Mbps	Full	
5		Enable	Up	Up	Enabled	Enabled	100Mbps	Full	
6		Enable	Up	Up	Enabled	Enabled	100Mbps	Full	
7		Enable	Up	Up	Enabled	Enabled	100Mbps	Full	
8		Enable	Up	Up	Enabled	Enabled	100Mbps	Full	
9		Enable	Up	Up	Enabled	Enabled	100Mbps	Half	
10		Enable	Down	Down	Enabled	Custom			
11		Enable	Up	Up	Enabled	Enabled	100Mbps	Full	
12		Enable	Up	Up	Enabled	Enabled	1000Mbps	Full	Disable
13		Enable	Up	Up	Enabled	Enabled	1000Mbps	Full	Disable
14		Enable	Down	Down	Enabled	Enabled			
15		Enable	Up	Up	Enabled	Enabled	1000Mbps	Full	Disable
16		Enable	Up	Up	Enabled	Enabled	1000Mbps	Full	Disable
17		Enable	Up	Up	Enabled	Enabled	100Mbps	Full	
18		Enable	Up	Up	Enabled	Enabled	1000Mbps	Full	Symm
19		Enable	Up	Up	Enabled	Enabled	1000Mbps	Full	Symm

----More (q=Quit, space/return=Continue)----

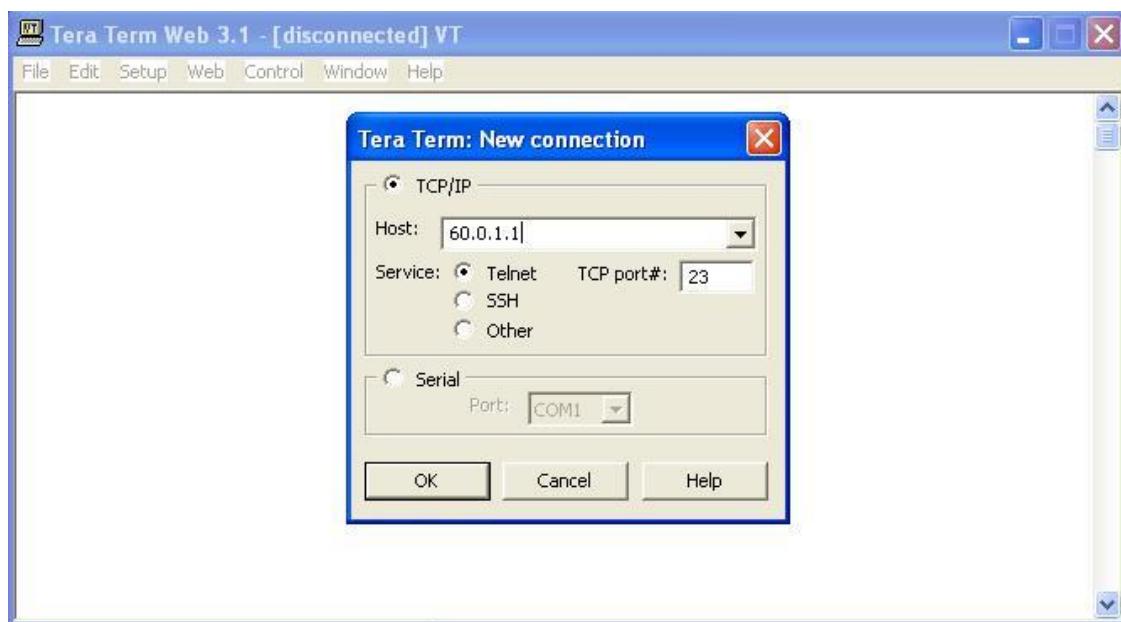
### 3.1.3.7 Melihat ARP

BS5510-DRC#*show ip arp*

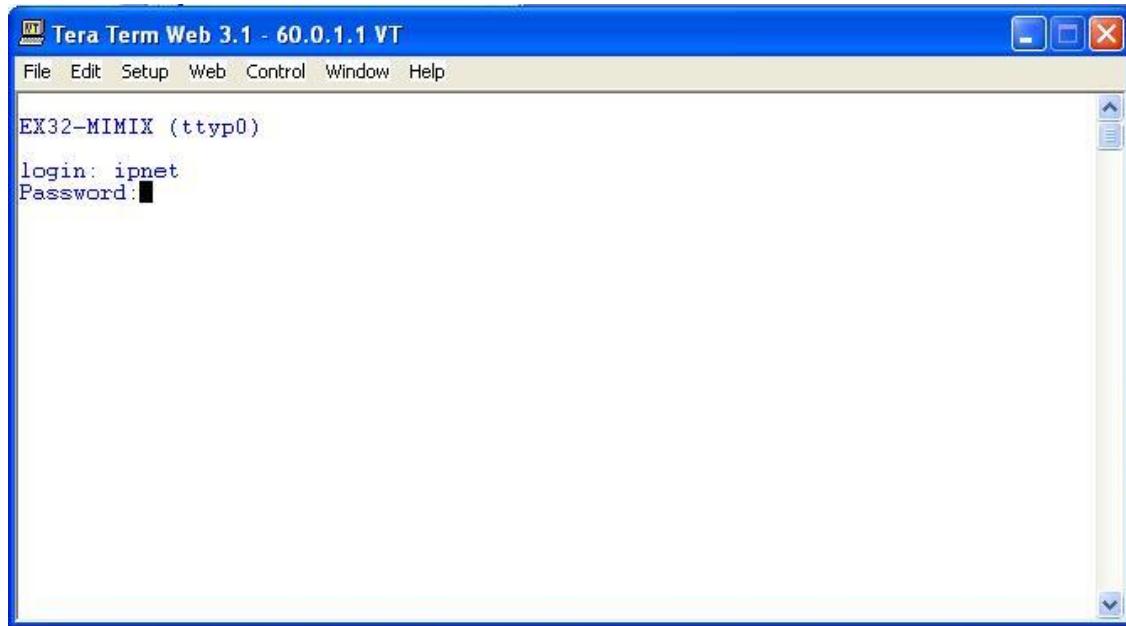
IP Address	Age (min)	MAC Address	VLAN-Port/Trunk	Flags
126.1.0.255	0	ff:ff:ff:ff:ff:ff	VLAN#2	LB
126.2.0.255	0	ff:ff:ff:ff:ff:ff	VLAN#3	LB
126.3.0.255	0	ff:ff:ff:ff:ff:ff	VLAN#4	LB
115.0.3.255	0	ff:ff:ff:ff:ff:ff	VLAN#5	LB
126.4.0.255	0	ff:ff:ff:ff:ff:ff	VLAN#6	LB
126.5.0.7	0	ff:ff:ff:ff:ff:ff	VLAN#7	LB
60.3.0.255	0	ff:ff:ff:ff:ff:ff	VLAN#200	LB

### 3.1.4 Juniper EX3200

Untuk dapat melihat konfigurasi atau mengkonfigurasi Juniper EX3200, user harus login ke Juniper EX3200 terlebih dahulu dengan cara console atau telnet atau ssh ke Juniper EX3200.



Masukkan username dan Password.



Setiap perubahan konfigurasi atau permintaan perubahan konfigurasi atau permintaan informasi mengenai konfigurasi perangkat Juniper EX3200 harus disetujui oleh Bagian Operasional Jaringan Komunikasi BRI-DC.

### 3.1.4.1 Melihat IP Interfaces

Command :

```
ipnet@EX32-MIMIX@% cli  
ipnet@EX32-MIMIX> configure  
ipnet@EX32-MIMIX# run show interfaces terse / match inet  
ge-0/0/0.0      up  up      inet  126.1.0.254/24  
ge-0/0/20.0     up  down    inet  100.100.100.1/24  
bme0.32768     up  up      inet  128.0.0.1/2  
[edit]
```

### 3.1.4.2 Melihat Status Interfaces

Command :

```
ipnet@EX32-MIMIX# run show interfaces terse
```

Interface	Admin	Link	Proto	Local	Remote
ge-0/0/0	up	up			
ge-0/0/0.0	up	up	inet	126.1.0.254/24	
ge-0/0/1	up	down			
ge-0/0/1.0	up	down	eth-switch		
ge-0/0/2	up	down			
ge-0/0/2.0	up	down	eth-switch		
ge-0/0/3	up	down			
ge-0/0/3.0	up	down	eth-switch		
ge-0/0/4	up	down			
ge-0/0/4.0	up	down	eth-switch		

### 3.1.4.3 Melihat Konfigurasi Yang Sedang Berjalan

Command :

```
ipnet@EX32-MIMIX# run show configuration
## Last commit: 2009-02-08 03:27:42 UTC by ipnet
version "9.2I0.1 [builder]";
system {
    host-name EX32-MIMIX;
    root-authentication {
        encrypted-password "$1$7jGQ5K.x$XT5c6E70ekIjWPOQECffI.";;
        SECRET-DATA
    }
    login {
        user ipnet {
            uid 2002;
            class super-user;
            authentication {

```



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```
        encrypted-password
"$1$9hhAoqqw$LHCi.XupFgCw3n9JCBVkj0"; ## SECRET-DATA
    }
}

user juniper {
    uid 2003;
    class super-user;
    authentication {
        encrypted-password
"$1$ou.n.i0A$nW5gjI/KN0nEwYKEWw.vw/"; ## SECRET-DATA
    }
---(more)---
```

### 3.1.4.4 Melihat Routing

Command :

```
ipnet@EX32-MIMIX# run show route / no-more
inet.0: 17 destinations, 17 routes (17 active, 0 holddown, 0 hidden)
+ = Active Route, - = Last Active, * = Both
```

```
0.0.0.0/0      *[Static/5] 3w4d 16:20:04
                > to 60.0.197.2 via vlan.200
60.0.1.0/24    *[Direct/0] 3w4d 16:33:09
                > via vlan.2
60.0.1.1/32    *[Local/0] 3w4d 16:33:16
                Local via vlan.2
60.0.4.0/24    *[Direct/0] 3w4d 16:33:08
                > via vlan.3
60.0.4.1/32    *[Local/0] 3w4d 16:33:16
                Local via vlan.3
60.0.6.0/24    *[Direct/0] 3w4d 16:32:28
                > via vlan.4
```



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Local via vlan.200\_juniper\_private1\_.inet.0: 4 destinations, 6 routes (1 active, 0 holddown, 3 hidden)

+ = Active Route, - = Last Active, \* = Both

128.0.0.0/2 \*[Direct/0] 3w4d 16:33:26

> via bme0.32768

[Direct/0] 3w4d 16:33:26

> via bme0.32768

[Direct/0] 3w4d 16:33:26

> via bme0.32768

[edit]

### 3.1.5 BCN

Untuk dapat melihat konfigurasi atau mengkonfigurasi Backbone Concentrator Node (BCN), user harus login terlebih dahulu dengan cara console atau telnet ke BCN.



Masukkan username dan Password.

```

Telnet 60.1.2.9

Nortel Networks, Inc. and its Licensors
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All rights reserved

Login: Manager
Password:
Welcome to the Backbone Technician Interface
Mounting new volume...
Device label:
Directory: 1:
New Present Working Directory: 1:
[BRIDRC_BN:1]$ 

```

### 3.1.5.1 LED Indikator Status Panel Depan

Label	Run LED	Boot LED	Diag LED
Initial Power	On	On	On
Diagnosa hardware	Blinking dengan periode 2 detik	Off	Off
Boot	Off	On	Off
Operasi normal dengan 2 Psu	On	Off	Off
Operasi normal dengan 4 Psu	On	On	Off
Diagnosa hardware gagal	Blinking dengan periode 2 detik	Off	On
Stack Packet Exchange (SPEX) net module gagal	Blinking dengan periode 2 detik	Off	Blinking dengan periode 2 detik Bergantian dengan LED RUN

### 3.1.5.2 Melihat Status CPU Utilisasi

Command :

*bcc> show process cpu total*

The screenshot shows a Telnet session with the following command and output:

```
bcc> show process cpu total
show process cpu total
Jul 06, 2007 02:45:12 [GMT]

Slot Max      Idle      Used      %Used
--- ---      ---      ---      ---
 1 4664068    2748242    1915826    41 %
 2 4659937    2604802    2055135    44 %
 3 4661947    4638315    23632      0 %
 5 4662139    4660936    1203       0 %
 6 4662102    4660441    1661       0 %
12 4662117    4660489    1628       0 %

bcc>
```

### 3.1.5.3 Melihat Memori yang Terpakai

Command :

*bcc> show process memory total*

The screenshot shows a Telnet session with the following command and output:

```
bcc> show process memory total
show process memory total
Jul 06, 2007 02:46:43 [GMT]

Slot Max      Free      Used      %Used
--- ---      ---      ---      ---
 1 47598736   42627664   4971072   10 %
 2 63972032   59324128   4647904    7 %
 3 30289376   22855584   7433792   24 %
 5 22432912   20010896   2422016   10 %
 6 22432912   20010864   2422048   10 %
12 22432912   20010784   2422128   10 %

bcc> =
```

### 3.1.5.4 Melihat IP Interface

Command :

*bcc> show ip int*

```
ex Telnet 115.0.1.1
bcc> show ip interface
show ip interfaces
Jul 06, 2007 02:51:06 [GMT]

Circuit Cct # State IP Address Mask MAC Address
--- --- --- --- --- ---
E11TOMIM 1 up 60.0.1.1 255.255.255.0 00.04.DC.45.F2.65
IX
1402101. 4 up 60.1.0.10 255.255.255.248 00.01.81.FD.60.5D
4
toDC 5 up 60.1.0.18 255.255.255.248 00.01.81.FD.60.5D
toGDL 6 up 60.1.0.26 255.255.255.248 00.01.81.FD.60.5D
1402101. 4 up 60.1.0.34 255.255.255.248 00.01.81.FD.60.5D
4
E12TOPP7 2 up 60.1.2.9 255.255.255.252 00.04.DC.45.F2.66
000
E31To_Fi 7 up 115.0.1.1 255.255.255.0 00.03.4B.FD.C8.98
rewall
E32To_Ma 8 up 115.255.0.1 255.255.255.0 00.03.4B.FD.C8.99
nagemnet
E33To_Pa 9 up 172.30.1.1 255.255.255.0 00.03.4B.FD.C8.9A
bx
bcc>
```

### 3.1.5.5 Melihat Static-Route

Command :

*bcc> show ip static*

```
ex Telnet 115.0.1.1
bcc> show ip static
show ip static
Jul 06, 2007 02:52:23 [GMT]

IP Destination Network Mask Cost Next Hop Valid Enabled
--- --- --- --- --- --- ---
0.0.0.0 0.0.0.0 1 60.1.0.9 yes yes
60.0.0.0 255.255.255.0 1 60.1.0.17 yes yes
60.0.0.0 255.255.255.0 1 60.1.0.9 yes yes
60.0.0.0 255.255.255.0 1 60.1.0.33 yes yes
60.0.2.0 255.255.255.0 2 60.1.0.25 yes yes
60.0.3.0 255.255.255.0 1 60.1.0.9 yes yes
60.0.4.0 255.255.255.0 1 60.0.1.251 yes yes
60.1.2.0 255.255.255.252 1 60.1.0.9 yes yes
60.1.2.4 255.255.255.252 1 60.1.0.25 yes yes
64.0.0.0 255.0.0.0 1 115.0.1.2 yes yes
65.0.0.0 255.0.0.0 1 115.0.1.2 yes yes
66.0.0.0 255.0.0.0 1 115.0.1.2 yes yes
115.0.2.0 255.255.255.0 1 115.0.1.2 yes yes
115.0.3.0 255.255.255.0 1 115.0.1.2 yes yes
116.0.1.0 255.255.255.0 1 115.0.1.2 yes yes
126.0.0.0 255.0.0.0 1 115.0.1.2 yes yes
172.20.0.15 255.255.255.255 1 60.1.0.9 yes yes
bcc> =
```

### 3.1.5.6 Melihat Routing

Command :

*bcc> show ip route*

```

bcc> show ip route
show ip routes
Jul 06, 2007 02:54:26 [GMT]

Network/Mask      Proto     Age   Slot   Cost  NextHop Address       AS
0.0.0.0/0          Static    47120   2      1 60.1.0.9
60.0.0.0/24        Static    47120   2      1 60.1.0.9
60.0.0.0/24        Static    47120   2      1 60.1.0.17
60.0.0.0/24        Static    47120   2      1 60.1.0.33
60.0.1.0/24        Direct    47153   1      0 60.1.1.1
60.0.2.0/24        Static    47120   2      2 60.1.0.25
60.0.3.0/24        Static    47120   2      1 60.1.0.9
60.0.4.0/24        Static    47145   1      1 60.0.1.251
60.1.0.8/29        Direct    47125   2      0 60.1.0.10
60.1.0.16/29       Direct    47125   2      0 60.1.0.18
60.1.0.24/29       Direct    47124   2      0 60.1.0.26
60.1.0.32/29       Direct    47125   2      0 60.1.0.34
60.1.2.0/30        Static    47120   2      1 60.1.0.9
60.1.2.4/30        Static    47120   2      1 60.1.0.25
60.1.2.8/30        Direct    47153   1      0 60.1.2.9
64.0.0.0/8          Static    47137   3      1 115.0.1.2
65.0.0.0/8          Static    47137   3      1 115.0.1.2
66.0.0.0/8          Static    47137   3      1 115.0.1.2
115.0.1.0/24        Direct    47146   3      0 115.0.1.1
115.0.2.0/24        Static    47137   3      1 115.0.1.2
115.0.3.0/24        Static    47137   3      1 115.0.1.2
115.255.0.0/24      Direct    47145   3      0 115.255.0.1
116.0.1.0/24        Static    47137   3      1 115.0.1.2
126.0.0.0/8          Static    47137   3      1 115.0.1.2
172.20.0.15/32      Static    47120   2      1 60.1.0.9
Type: <space> to page; <return> advance 1 line; Q to quit_

```

### 3.1.6 Juniper J6350

Untuk dapat melihat konfigurasi atau mengkonfigurasi Juniper J6350, user harus login ke Juniper J6350 terlebih dahulu dengan cara console atau telnet atau ssh ke J6350.



Masukkan username dan Password.



DIS/PAN-04-01-00 : 12:01:00

Setiap perubahan konfigurasi atau permintaan perubahan konfigurasi atau permintaan informasi mengenai konfigurasi perangkat Juniper J6350 harus disetujui oleh Bagian Operasional Jaringan Komunikasi BRI-DC.

### 3.1.6.1 Melihat Chassis Hardware

```
root# run show chassis hardware
```

Hardware inventory:

Item	Version	Part number	Serial number	Description
Chassis			JN004966AA	J2300
Routing Engine	REV 07	750-009992	AA05320475	RE-J.1
FPC 0	REV 04	750-010739	AC04510589	FPC
PIC 0				2x FE, 2x Serial
Power Supply 0				

### 3.1.6.2 Melihat Konfigurasi Yang Sedang Berjalan

```
ipnet@J6350-BRI-DRC> show configuration
## Last commit: 2010-08-05 23:06:42 WIT by ipnet
version 9.3R4.4;
system {
    host-name J6350-BRI-DRC;
    time-zone Asia/Jakarta;
    root-authentication {
        encrypted-password
        "$1$nJoIkNPz$xhKyWKUJNMI4kqgr6NhHE."; ## SECRET-DATA
    }
    login {
        user ipnet {
            uid 2000;
            class super-user;
            authentication {
                encrypted-password
                "$1$0QrJAdTl$TdHE.k6YMVtaWoZkGxkVK1"; ## SECRET-DATA
            }
        }
        user wafa {
            uid 2001;
            class super-user;
            authentication {
                encrypted-password
                "$1$Y67aXYg1$nNRM.V2DEnQPk4Y6.1E6V/"; ## SECRET-DATA
            }
        }
    }
    services {
        ssh {
```

```
connection-limit 10;
rate-limit 10;
}
telnet {
connection-limit 10;
rate-limit 10;
}
}
syslog {
user * {
any emergency;
}
file messages {
any any;
authorization info;
}
file interactive-commands {
interactive-commands any;
---(more 4%)
---
```

### 3.1.6.3 Melihat CPU Utilisasi

root# *run show chassis routing-engine*

Routing Engine status:

Temperature	37 degrees C / 98 degrees F
CPU temperature	42 degrees C / 107 degrees F
DRAM	256 MB
Memory utilization	87 percent
CPU utilization:	
User	0 percent
Real-time threads	17 percent
Kernel	83 percent
Idle	0 percent
Model	RE-J.1

Serial ID	AA05320475
Start time	2010-08-18 17:59:04 UTC
Uptime	27 minutes, 43 seconds
Load averages:	1 minute 5 minute 15 minute
	0.02 0.06 0.06

### 3.1.6.4 Melihat IP Interface

```
root# run show interfaces terse / match inet
```

fe-0/0/0.0	up	down	inet	192.168.10.2/24
sp-0/0/0.16383	up	up	inet	
fe-0/0/1.0	up	down	inet	124.124.124.2/24
lo0.0	up	up	inet	10.10.10.2 --> 0/0
lo0.16385	up	up	inet	10.0.0.1 --> 0/0

### 3.1.6.5 Monitoring Interfaces

```
root> monitor interface fe-0/0/1.0
```

### 3.1.6.6 Monitoring traffic interfaces

```
root> monitor traffic interface fe-0/0/1.0
```

BIOCSETIF: fe-0/0/1.0: Network is down

### 3.1.6.7 Melihat Alarm

```
root> show chassis alarms
```

No alarms currently active

### 3.1.6.8 Melihat Waktu Aktif Perangkat

```
root# run show system uptime
```

Current time: 2010-08-18 18:32:08 UTC  
System booted: 2010-08-18 17:59:04 UTC (00:33:04 ago)  
Protocols started: 2010-08-18 17:59:58 UTC (00:32:10 ago)  
Last configured: 2010-08-05 21:59:29 UTC(1w5d 20:32 ago) by root  
6:32PM up 33 mins, 1 user, load averages: 0.00, 0.03, 0.04

### 3.1.6.9 Melihat Suhu Perangkat

```
root# run show chassis temperature-thresholds
```

Item	Fan speed		Yellow alarm		Red alarm	
	Normal	High	Normal	Bad fan	Normal	Bad fan
Chassis default	48	54	65	55	75	65
Routing Engine	73	78	78	65	85	80

### 3.1.6.10 Melihat Status Suhu dan Status Fan

```
root# run show chassis environment
```

Class	Item	Status	Measurement
Temp	Routing Engine	OK	37 degrees C / 98 degrees F
Fans	Jseries CPU fan	OK	Spinning at high speed
Power	Power Supply 0		

### 3.1.6.11 Melihat Status Interface

```
root# run show interfaces terse
```

fe-0/0/0.0	up	down	inet	192.168.10.2/24
sp-0/0/0.16383	up	up	inet	
fe-0/0/1.0	up	down	inet	124.124.124.2/24
lo0.0	up	up	inet	10.10.10.2 --> 0/0
lo0.16385	up	up	inet	10.0.0.1 --> 0/0

### 3.1.6.12 Melihat Interface Ethernet secara spesifik

```
root# run show interfaces fe-0/0/1.0
```

Logical interface fe-0/0/1.0 (Index 68) (SNMP ifIndex 34)  
Flags: Device-Down SNMP-Traps Encapsulation: ENET2  
Input packets : 0  
Output packets: 0  
Protocol inet, MTU: 1500  
Flags: None  
Addresses, Flags: Dest-route-down Is-Preferred Is-Primary  
Destination: 124.124.124/24, Local: 124.124.124.2,  
Broadcast: 124.124.124.255

### 3.1.6.13 Melihat Routing

```
ipnet@J6350-BRI-DRC> show route
```

inet.0: 2097 destinations, 2105 routes (2097 active, 0 holddown, 0 hidden)  
+ = Active Route, - = Last Active, \* = Both

```
0.0.0.0/0      *[OSPF/150] 4w2d 07:28:11, metric 0, tag 3489725928
                > to 172.29.44.1 via ge-0/0/0.0
1.0.0.3/32    *[OSPF/150] 4w2d 07:28:11, metric 0, tag 3489725928
                > to 172.29.44.1 via ge-0/0/0.0
1.0.0.70/3    *[OSPF/150] 4w2d 07:28:11, metric 0, tag 3489725928
                > to 172.29.44.1 via ge-0/0/0.0
1.1.1.1/32    *[OSPF/10] 1w5d 02:16:15, metric 2
                > to 172.30.131.2 via ge-0/0/3.20
1.35.33.0/24   *[OSPF/150] 2w6d 23:31:00, metric 20, tag 0
                > to 172.30.133.2 via ge-0/0/3.40
1.38.33.0/24   *[OSPF/150] 2w6d 23:31:00, metric 20, tag 0
```

```
> to 172.30.133.2 via ge-0/0/3.40
1.38.49.0/24    *[OSPF/150] 2w6d 23:31:00, metric 20, tag 0
                  > to 172.30.133.2 via ge-0/0/3.40
1.39.17.0/24    *[OSPF/150] 2w6d 23:31:00, metric 20, tag 0
                  > to 172.30.133.2 via ge-0/0/3.40
1.40.33.0/24    *[OSPF/150] 2w6d 23:31:00, metric 20, tag 0
                  > to 172.30.133.2 via ge-0/0/3.40
1.41.17.0/24    *[OSPF/150] 2w6d 23:31:00, metric 20, tag 0
```

### 3.1.6.14 Melihat ARP

```
ipnet@J6350-BRI-DRC> show arp
```

MAC Address	Address	Name	Interface	Flags
00:90:fb:23:62:21	172.29.41.2	172.29.41.2	ge-0/0/1.0	none
00:21:5e:75:12:e0	172.29.43.2	172.29.43.2	ge-0/0/2.0	none
00:23:9c:ed:04:1f	172.29.44.1	172.29.44.1	ge-0/0/0.0	none
00:18:18:e2:b8:41	172.30.129.2	172.30.129.2	ge-0/0/3.5	none
00:24:14:00:26:41	172.30.131.2	172.30.131.2	ge-0/0/3.20	none
00:1e:bd:b1:43:1b	172.30.132.2	172.30.132.2	ge-0/0/3.30	none
00:1c:f6:fc:e3:60	172.30.133.2	172.30.133.2	ge-0/0/3.40	none
00:23:ac:98:25:c6	172.30.134.2	172.30.134.2	ge-0/0/3.50	none
00:27:0d:e1:4c:e1	172.30.135.2	172.30.135.2	ge-0/0/3.60	none
00:25:45:4d:63:f1	172.30.136.2	172.30.136.2	ge-0/0/3.70	none
Total entries: 10				

### 3.1.6.15 Melihat Log Messages

```
ipnet@J6350-BRI-DRC> show log messages
```

```
Aug 24 15:00:00 J6350-BRI-DRC newsyslog[493]: logfile turned over
due to size>128K

Aug 24 15:43:02 J6350-BRI-DRC login: LOGIN_INFORMATION:
User ipnet logged in from host 172.29.44.1 on device ttyn0

Aug 24 15:43:02 J6350-BRI-DRC mgd[498]: UI_AUTH_EVENT:
Authenticated user 'ipnet' at permission level 'j-super-user'

Aug 24 15:43:02 J6350-BRI-DRC mgd[498]: UI_LOGIN_EVENT:
User 'ipnet' login, class 'j-super-user' [498]
```

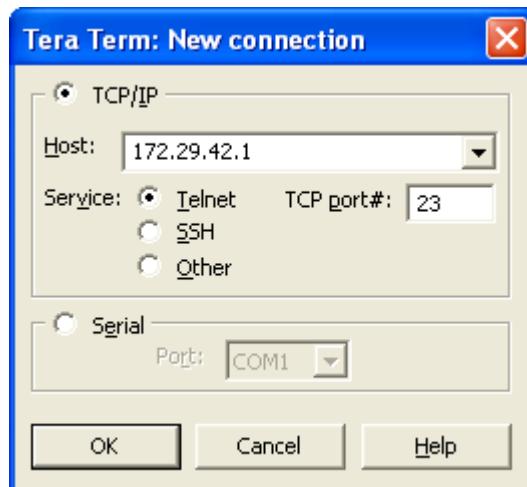


DIS/PAN-04-01-00 : 12:01:00

```
Aug      24    15:43:07      J6350-BRI-DRC      mgd[498]:  
UI_CMDLINE_READ_LINE: User 'ipnet', command 'show  
configuration'  
Aug      24    15:45:05      J6350-BRI-DRC      mgd[498]:  
UI_CMDLINE_READ_LINE: User 'ipnet', command 'show arp'  
Aug 24 15:45:05 J6350-BRI-DRC mgd[498]: UI_CHILD_START:  
Starting child '/usr/sbin/arp'  
Aug 24 15:45:05 J6350-BRI-DRC mgd[498]: UI_CHILD_STATUS:  
Cleanup child '/usr/sbin/arp', PID 501, status 0  
Aug 24 15:45:29 J6350-BRI-DRC mgd[498]: UI_LOGOUT_EVENT:  
User 'ipnet' logout  
Aug 24 16:00:00 J6350-BRI-DRC cron[503]: (root) CMD (newsyslog)  
Aug 24 17:00:00 J6350-BRI-DRC cron[506]: (root) CMD (newsyslog)  
Aug 24 17:15:36 J6350-BRI-DRC login: LOGIN_INFORMATION:  
User ipnet logged in from host 172.29.44.1 on device ttym0  
Aug 24 17:15:36 J6350-BRI-DRC mgd[511]: UI_AUTH_EVENT:  
Authenticated user 'ipnet' at permission level 'j-super-user'
```

### 3.1.7 Juniper M10i

Untuk dapat melihat konfigurasi atau mengkonfigurasi Juniper M10i, user harus login ke Juniper M10i terlebih dahulu dengan cara console atau telnet atau ssh ke M10i.



Masukkan username dan Password.

Setiap perubahan konfigurasi atau permintaan perubahan konfigurasi atau permintaan informasi mengenai konfigurasi perangkat Juniper M10i harus disetujui oleh Bagian Operasional Jaringan Komunikasi BRI-DC.

### 3.1.7.1 Melihat Versi Perangkat

```
admin@M10-DRC> show version
```

Hostname: M10-DRC

Model: m10i

JUNOS Base OS boot [9.3R4.4]

JUNOS Base OS Software Suite [9.3R4.4]

JUNOS Kernel Software Suite [9.3R4.4]

JUNOS Crypto Software Suite [9.3R4.4]

JUNOS Packet Forwarding Engine Support (M/T Common)  
[9.3R4.4]

JUNOS Packet Forwarding Engine Support (M7i/M10i) [9.3R4.4]

JUNOS Online Documentation [9.3R4.4]

JUNOS Routing Software Suite [9.3R4.4]

### 3.1.7.2 Melihat ARP

```
admin@M10-DRC> show arp
```

MAC Address	Address	Name	Interface	Flags
00:23:9c:1b:ae:80	60.0.197.1	60.0.197.1	fe-0/1/5.0	none
00:03:4b:fd:c8:98	60.1.2.21	60.1.2.21	fxp0.0	none
00:03:4b:fd:c8:9b	60.1.2.161	60.1.2.161	fe-0/1/4.0	none
00:04:dc:45:f2:65	60.1.2.166	60.1.2.166	fe-0/1/8.0	none
00:a0:8e:42:cd:57	115.0.1.2	115.0.1.2	fe-0/1/6.0	none
00:90:fb:23:62:20	172.29.42.2	172.29.42.2	fe-0/1/7.0	none
00:24:dc:0f:5b:80	172.29.44.2	172.29.44.2	fe-0/1/0.0	none
Total entries: 7				

### 3.1.7.3 Melihat Konfigurasi Yang Sedang Berjalan

```
admin@M10-DRC> show configuration
## Last commit: 2010-08-03 07:06:53 GMT+7 by admin
version 9.3R4.4;
system {
    host-name M10-DRC;
    time-zone GMT+7;
    root-authentication {
        encrypted-password
        "$1$QY8zJQo7$RF4Layawwcp2724PA6Umz0"; ## SECRET-DATA
```

### 3.1.7.4 Melihat Routing

```
admin@M10-DRC> show route
inet.0: 12 destinations, 13 routes (12 active, 0 holddown, 0 hidden)
+ = Active Route, - = Last Active, * = Both
 60.1.2.20/30      *[Direct/0] 8w5d 14:26:55
    > via fxp0.0
 60.1.2.22/32      *[Local/0] 8w5d 14:26:55
    Local via fxp0.0
 131.100.55.153/32 *[Static/5] 8w5d 14:26:55
    > to 60.1.2.21 via fxp0.0
 172.16.7.1/32      *[OSPF/10] 4w4d 18:25:13, metric 2
    > via t3-0/0/1.0
 172.16.11.1/32      *[OSPF/10] 4w2d 07:03:50, metric 4
    > via t3-0/0/1.0
 172.16.21.1/32      *[OSPF/10] 4w4d 18:25:13, metric 3
    > via t3-0/0/1.0
 172.16.31.1/32      *[Direct/0] 8w5d 15:59:08
    > via lo0.31
 192.168.1.4/30      *[OSPF/10] 4w2d 07:03:50, metric 4
    > via t3-0/0/1.0
 192.168.1.8/30      *[Direct/0] 4w4d 18:25:14
```

> via t3-0/0/1.0  
[OSPF/10] 4w4d 18:25:13, metric 2

### 3.1.7.5 Melihat Status Interface

admin@M10-DRC> *show interfaces terse*

Interface	Admin	Link	Proto	Local	Remote
t3-0/0/0	up	down			
t3-0/0/1	up	up			
t3-0/0/1.0	up	up	inet	192.168.1.10/30	
					mpls
fe-0/1/0	up	up			
fe-0/1/0.0	up	up	inet	172.29.44.1/29	
fe-0/1/1	up	down			
fe-0/1/2	up	down			
fe-0/1/3	up	down			
fe-0/1/4	up	up			
fe-0/1/4.0	up	up	inet	60.1.2.162/30	
fe-0/1/5	up	up			
fe-0/1/5.0	up	up	inet	60.0.197.2/29	
fe-0/1/6	up	up			
fe-0/1/6.0	up	up	inet	115.0.1.1/24	

### 3.1.7.6 Melihat Interface Routing-Instance

admin@M10-DRC> *show interfaces routing-instance BRI-VPN-PROVIDER*

Logical interface fe-0/1/0.0 (Index 67) (SNMP ifIndex 233)

Description: To\_J6350\_DRC

Flags: SNMP-Traps Encapsulation: ENET2

Input packets : 66359711

Output packets: 43361266

Protocol inet, MTU: 1500

Flags: Is-Primary

Addresses, Flags: Is-Default Is-Preferred Is-Primary



DIS/PAN-04-01-00 : 12:01:00

Destination: 172.29.44.0/29, Local: 172.29.44.1, Broadcast:  
172.29.44.7

### 3.1.7.7 Melihat CPU Utilisasi

admin@M10-DRC> *show chassis routing-engine*

Routing Engine status:

Slot 0:

Current state	Master
Election priority	Master (default)
Temperature	28 degrees C / 82 degrees F
CPU temperature	26 degrees C / 78 degrees F
DRAM	768 MB
Memory utilization	44 percent

CPU utilization:

User	0 percent
Background	0 percent
Kernel	3 percent
Interrupt	0 percent
Idle	96 percent
Model	RE-5.0
Serial ID	9009027594
Start time	2009-12-15 03:46:01 GMT+7
Uptime	264 days, 15 hours, 28 minutes, 14 seconds
Last reboot reason	Router rebooted after a normal shutdown.
Load averages:	1 minute 5 minute 15 minute
	0.07 0.02 0.01

### 3.1.7.8 Melihat OSPF Neighbor

```
admin@M10-DRC> show ospf neighbor
```

Address	Interface	State	ID	Pri	Dead
192.168.1.9	t3-0/0/1.0	Full	172.16.7.1	128	37

### 3.1.7.9 Melihat OSPF Route

```
admin@M10-DRC> show ospf route / no-more
```

Topology default Route Table:

Prefix	Path	Route	NH	Metric	NextHop	Nexthop
	Type	Type	Type		Interface	addr/label
172.16.7.1	Intra	Router	IP	2	t3-0/0/1.0	
172.16.11.1	Intra	Router	IP	4	t3-0/0/1.0	
172.16.21.1	Intra	Router	IP	3	t3-0/0/1.0	
172.16.7.1/32	Intra	Network	IP	2	t3-0/0/1.0	
172.16.11.1/32	Intra	Network	IP	4	t3-0/0/1.0	
172.16.21.1/32	Intra	Network	IP	3	t3-0/0/1.0	
172.16.31.1/32	Intra	Network	IP	0	lo0.31	
192.168.1.4/30	Intra	Network	IP	4	t3-0/0/1.0	
192.168.1.8/30	Intra	Network	IP	2	t3-0/0/1.0	
192.168.20.0/30	Intra	Network	IP	3	t3-0/0/1.0	

### 3.1.7.10 Melihat OSPF Interface

```
admin@M10-DRC> show ospf interface
```

Interface	State	Area	DR ID	BDR ID	Nbrs
lo0.31	DROther	0.0.0.0	0.0.0.0	0.0.0.0	0
t3-0/0/1.0	PtToPt	0.0.0.0	0.0.0.0	0.0.0.0	1

### 3.1.7.11 Melihat OSPF Database

```
admin@M10-DRC> show ospf database / no-more
```

OSPF database, Area 0.0.0.0

Type	ID	Adv Rtr	Seq	Age	Opt	Cksum	Len
Router	172.16.7.1	172.16.7.1	0x8000095b	1590	0x22	0x8d3e	96
Router	172.16.11.1	172.16.11.1	0x8000090a	320	0x22	0x7fc	60
Router	172.16.21.1	172.16.21.1	0x800008c8	1353	0x22	0x9744	48
Router	*172.16.31.1	172.16.31.1	0x80000a72	873	0x22	0x6fe6	60
Network	192.168.20.2	172.16.21.1	0x800008b0	1953	0x22	0xddbd	32
OpaqArea	1.0.0.1	172.16.7.1	0x8000085d	590	0x22	0x142d	28
OpaqArea	1.0.0.1	172.16.11.1	0x800008fc	1150	0x22	0xdcbe	28
OpaqArea	1.0.0.1	172.16.21.1	0x800008bd	753	0x22	0x6f55	28
OpaqArea	*1.0.0.1	172.16.31.1	0x80000968	1714	0x22	0x2bd9	28
OpaqArea	1.0.0.3	172.16.7.1	0x8000085f	1090	0x22	0x464b	136
OpaqArea	1.0.0.3	172.16.11.1	0x800008f4	1916	0x22	0x4fb4	136
OpaqArea	1.0.0.3	172.16.21.1	0x800008b0	153	0x22	0x8ad5	124
OpaqArea	*1.0.0.3	172.16.31.1	0x80000998	73	0x22	0x72c9	136
OpaqArea	1.0.0.4	172.16.7.1	0x80000471	2090	0x22	0x4520	136
OpaqArea	1.0.0.5	172.16.7.1	0x8000085b	90	0x22	0xc214	124

### 3.1.7.12 Melihat MPLS interface

```
admin@M10-DRC> show mpls interface
Interface      State      Administrative groups
t3-0/0/1.0     Up        <none>
```

### 3.1.7.13 Melihat MPLS LSP

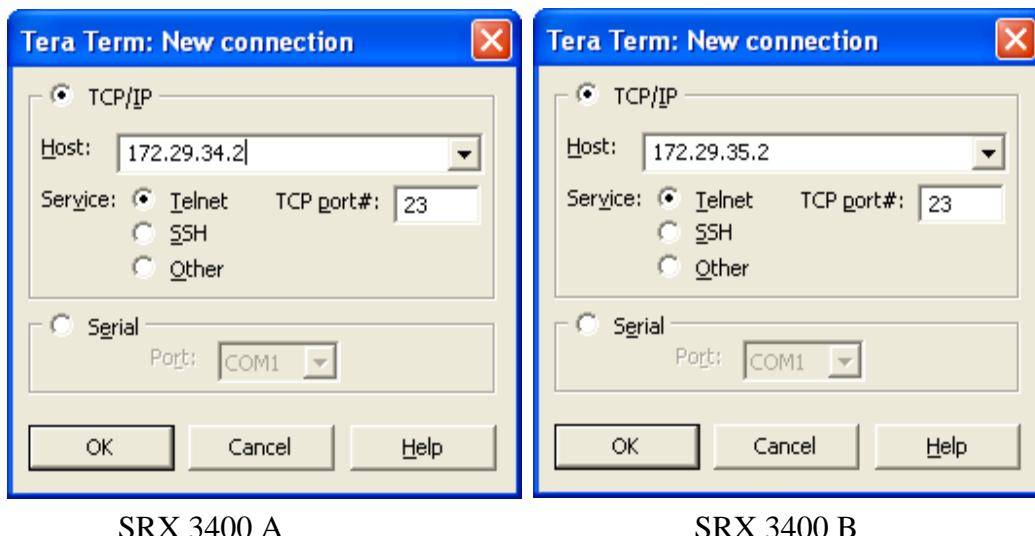
```
admin@M10-DRC> show mpls lsp
Ingress LSP: 2 sessions
To          From       State Rt P ActivePath      LSPname
172.16.11.1 172.16.8.1 Up   0 *           TO_ROUTER_DC
172.16.21.1 172.16.31.1 Up   0 *           TO_ROUTER_GDL
Total 2 displayed, Up 2, Down 0
Egress LSP: 2 sessions
To          From       State Rt Style Labelin Labelout LSPname
172.16.31.1 172.16.11.1 Up   0 1 FF         3           - TO_ROUTER_DRC
172.16.31.1 172.16.21.1 Up   0 1 FF         3           - TO_ROUTER_DRC
Total 2 displayed, Up 2, Down 0
Transit LSP: 0 sessions
Total 0 displayed, Up 0, Down 0
```

### 3.1.7.14 Melihat Log Messages

```
admin@M10-DRC> show log messages
Jul 19 04:00:00 M10-DRC newsyslog[97203]: logfile turned over due to
size>1024K
Jul 19 04:01:17 M10-DRC mgd[97175]: UI_DBASE_LOGIN_EVENT:
User 'admin' entering configuration mode
Jul 19 04:01:38 M10-DRC mgd[97175]:
UI_DBASE_LOGOUT_EVENT: User 'admin' exiting configuration
mode
Jul 19 04:01:50 M10-DRC mgd[97198]:
UI_DBASE_LOGOUT_EVENT: User 'root' exiting configuration mode
```

### 3.1.8 Juniper SRX 3400

Untuk dapat melihat konfigurasi atau mengkonfigurasi Juniper SRX 3400, user harus login ke Juniper SRX 3400 terlebih dahulu dengan cara console atau telnet atau ssh ke SRX 3400.



Masukkan username dan Password.

Setiap perubahan konfigurasi atau permintaan perubahan konfigurasi atau permintaan informasi mengenai konfigurasi perangkat Juniper SRX 3400 harus disetujui oleh Bagian Operasional Jaringan Komunikasi BRI-DC.

#### 3.1.8.1 Melihat Versi Perangkat

```
ipnet@BRI-DRC-SRX3400-A> show version
```

Hostname: BRI-DRC-SRX3400-A

Model: srx3400

JUNOS Software Release [9.4R2.9]

#### 3.1.8.2 Melihat Konfigurasi Yang Sedang Berjalan

```
ipnet@BRI-DRC-SRX3400-A> show configuration
```

## Last commit: 2010-07-26 14:50:36 UTC by root

version 9.4R2.9;

system {



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```
host-name BRI-DRC-SRX3400-A;
root-authentication {
    encrypted-password
"$1$HYGYxs1u$oWNUVi4jRzIQXMBWZcYXQ1";##SECRET DATA
}
login {
    message
*****
[WARNING] Juniper SRX3400-A-DRC
This system is owned by PT.Bank Rakyat Indonesia,Tbk.
UNAUTHORIZED USE OF THIS SYSTEM IS STRICTLY
PROHIBITED!*
*****
user ipnet {
    uid 2000;
    class super-user;
    authentication {
        encrypted-password
"$1$CtUbFvvh$obA3IAGlEjs6vNxG4sh6g."; ## SECRET-DATA
    }
}
services {
    ssh {
        connection-limit 10;
        rate-limit 10;
    }
    telnet;
    outbound-ssh {
        client nsm {
            device-id E4792A;
            secret "$9$dsVgJiHmTF/.PF/AtRE-VbYaZjHq5z3"; ##
SECRET-DATA
    
```

```
services netconf;  
    172.29.200.130 port 7804;  
    115.255.0.7 port 7804;  
}  
  
syslog {  
    user * {  
        any emergency;  
    }  
    file messages {  
        any notice;  
        authorization info;  
    }  
}
```

### 3.1.8.3 Melihat CPU Utilisasi

ipnet@BRI-DRC-SRX3400-A> *show chassis routing-engine*

Routing Engine status:

Slot 0:

Current state	Master
Election priority	Master (default)
DRAM	1015 MB
Memory utilization	37 percent

CPU utilization:

User	0 percent
Background	0 percent
Kernel	2 percent
Interrupt	0 percent
Idle	98 percent
Model	RE-SRX3400
Start time	2010-06-27 13:55:46 UTC
Uptime	70 days, 20 hours, 23 minutes, 20 seconds
Last reboot reason	0x1:power cycle/failure
Load averages:	1 minute 5 minute 15 minute
	0.00 0.00 0.00

### 3.1.8.4 Melihat Status Interfaces

```
ipnet@BRI-DRC-SRX3400-A>show interfaces terse
      Interface      Admin Link    Proto Local  Remote
      ge-0/0/0        up       up
      ge-0/0/0.0      up       up     inet   172.29.34.2/29
      multiservice
      ge-0/0/1        up       up
      ge-0/0/1.0      up       up     inet   172.29.35.10/29
      multiservice
      ge-0/0/2        up       up
      ge-0/0/2.0      up       up     inet   172.29.36.1/29
      multiservice
      ge-0/0/3        up       up
      ge-0/0/3.0      up       up     inet   172.29.37.9/29
      multiservice
      ge-0/0/4        up       down
      ge-0/0/5        up       down
      ge-0/0/6        up       down
      ge-0/0/7        up       down
      ge-0/0/7.0      up       down  multiservice
      ge-0/0/8        up       down
      ge-0/0/9        up       down
      ge-0/0/10       up       down
      ge-0/0/11       up       down
      dsc      up       up
```

### 3.1.8.5 Melihat Security Zone

ipnet@BRI-DRC-SRX3400-A> *show security zones*

Security zone: clean

Send reset for non-SYN session TCP packets: Off

Policy configurable: Yes

Interfaces bound: 2

Interfaces:

ge-0/0/2.0

ge-0/0/3.0

Security zone: dirty

Send reset for non-SYN session TCP packets: Off

Policy configurable: Yes

Interfaces bound: 3

Interfaces:

ge-0/0/0.0

ge-0/0/1.0

ge-0/0/7.0

Security zone: junos-global

Send reset for non-SYN session TCP packets: Off

Policy configurable: Yes

Interfaces bound: 0

Interfaces:

---(more)---

### 3.1.8.6 Melihat Security Policies

ipnet@BRI-DRC-SRX3400-A> *show security policies*

Default policy: deny-all

From zone: dirty, To zone: dirty

Policy: dirty-to-dirty, State: enabled, Index: 4, Sequence number: 1

Source addresses: any

Destination addresses: any

Applications: any

Action: permit

From zone: dirty, To zone: clean

Policy: dirty-to-clean, State: enabled, Index: 6, Sequence number: 1

Source addresses: any

Destination addresses: any

Applications: any

Action: permit

From zone: clean, To zone: clean

Policy: clean-to-clean, State: enabled, Index: 5, Sequence number: 1

Source addresses: any

Destination addresses: any

Applications: any

Action: permit

From zone: clean, To zone: dirty

Policy: clean-t-dirty, State: enabled, Index: 7, Sequence number: 1

Source addresses: any

Destination addresses: any

### 3.1.8.7 Melihat Routing

```
ipnet@BRI-DRC-SRX3400-A> show route
```

inet.0: 108 destinations, 109 routes (108 active, 0 holddown, 0 hidden)

+ = Active Route, - = Last Active, \* = Both

```
0.0.0.0/0      *[OSPF/150] 6w6d 17:23:27, metric 1, tag 0
               > to 172.29.34.1 via ge-0/0/0.0
1.0.0.0/24     *[OSPF/150] 4w2d 07:38:24, metric 0, tag 3489725928
               > to 172.29.34.1 via ge-0/0/0.0
2.0.0.0/24     *[OSPF/150] 4w2d 07:38:24, metric 0, tag 3489725928
               > to 172.29.34.1 via ge-0/0/0.0
3.0.0.0/24     *[OSPF/150] 4w2d 07:38:24, metric 0, tag 3489725928
               > to 172.29.34.1 via ge-0/0/0.0
10.8.8.0/30    *[OSPF/150] 4w3d 18:16:47, metric 10, tag 0
               > to 172.29.37.10 via ge-0/0/3.0
10.35.65.0/24  *[OSPF/150] 4w2d 07:38:24, metric 0, tag 3489725928
               > to 172.29.34.1 via ge-0/0/0.0
10.35.97.0/24  *[OSPF/150] 4w2d 07:38:24, metric 0, tag 3489725928
               > to 172.29.34.1 via ge-0/0/0.0
10.100.0.0/16  *[OSPF/150] 6w6d 17:39:54, metric 0, tag 0
               > to 172.29.34.1 via ge-0/0/0.0
10.101.0.0/16  *[OSPF/150] 6w6d 17:39:54, metric 0, tag 0
               > to 172.29.34.1 via ge-0/0/0.0
10.102.0.0/16  *[OSPF/150] 6w6d 17:39:54, metric 0, tag 0
---(more)---
```

### 3.1.8.8 Melihat OSPF Neighbor

ipnet@BRI-DRC-SRX3400-A> *show ospf neighbor*

Address	Interface	State	ID	Pri	Dead
172.29.34.1	ge-0/0/0.0	Full	172.29.40.81	1	37
172.29.35.9	ge-0/0/1.0	Full	172.29.40.80	1	37
172.29.36.2	ge-0/0/2.0	Full	172.29.40.71	128	32
172.29.37.10	ge-0/0/3.0	Full	172.29.40.70	128	35

### 3.1.8.9 Melihat OSPF Interfaces

ipnet@BRI-DRC-SRX3400-A> *show ospf interface*

Interface	State	Area	DR ID	BDR ID	Nbrs
ge-0/0/0.0	PtToPt	0.0.0.0	0.0.0.0	0.0.0.0	1
ge-0/0/1.0	DR	0.0.0.0	172.29.40.91	172.29.40.80	1
lo0.0	DROther	0.0.0.0	0.0.0.0	0.0.0.0	0
ge-0/0/2.0	PtToPt	0.0.0.1	0.0.0.0	0.0.0.0	1
ge-0/0/3.	PtToPt	0.0.0.1	0.0.0.0	0.0.0.0	1

### 3.1.8.10 Melihat OSPF Route

ipnet@BRI-DRC-SRX3400-A> *show ospf route*

Topology default Route Table:

Prefix	Path	Route		NH	Metric	NextHop	Nexthop
		Type	Type				
60.1.2.165	Inter	AS BR	IP	12	ge-0/0/0.0	172.29.34.1	
172.29.40.60	Inter	AS BR	IP	2	ge-0/0/0.0	172.29.34.1	
172.29.40.70	Inter	AS BR	IP	5	ge-0/0/0.0	172.29.34.1	
					ge-0/0/1.0	172.29.35.9	
172.29.40.71	Intra	AS BR	IP	1	ge-0/0/2.0	172.29.36.2	
172.29.40.80	Intra	Area BR	IP	3	ge-0/0/1.0	172.29.35.9	
172.29.40.81	Intra	Area BR	IP	1	ge-0/0/0.0	172.29.34.1	
172.29.40.90	Intra	Area BR	IP	4	ge-0/0/0.0	172.29.34.1	
					ge-0/0/1.0	172.29.35.9	



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0.0.0.0/0      Ext2 Network    IP    1    ge-0/0/0.0    172.29.34.1

### 3.1.8.11 Melihat OSPF Database

```
ipnet@BRI-DRC-SRX3400-A> show ospf database
OSPF database, Area 0.0.0.0
Type        ID          Adv Rtr      Seq  Age Opt Cksum Len
Router  172.29.40.80 172.29.40.80 0x80001f56 618 0x22 0xf85b 72
Router  172.29.40.81 172.29.40.81 0x80001fa2 1063 0x22 0x5b0 84
Router  172.29.40.90 172.29.40.90 0x800015a1 2119 0x22 0xd9e 60
Router *172.29.40.91 172.29.40.91 0x80001605 2909 0x22 0x50a9 72
Network 172.29.34.10 172.29.40.90 0x800006df 530 0x22 0x4d3d 32
Network 172.29.35.2 172.29.40.90 0x800006de 1942 0x22 0x860d 32
Network *172.29.35.10 172.29.40.91 0x80000727 527 0x22 0xa699 32
Summary 60.1.2.96 172.29.40.90 0x8000043b 178 0x22 0xd1dc 28
Summary *60.1.2.96 172.29.40.91 0x8000043b 262 0x22 0xe927 28
Summary 60.1.2.98 172.29.40.90 0x8000043a 2825 0x22 0xdd33 28
Summary *60.1.2.98 172.29.40.91 0x8000043b 86 0x22 0xb7f3 28
```

### 3.1.8.12 Melihat Log Messages

```
ipnet@BRI-DRC-SRX3400-A> show log messages
Aug 31 14:00:00 BRI-DRC-SRX3400-A newsyslog[69000]: logfile
turned over due to size>1024K
Sep 5 11:58:54 BRI-DRC-SRX3400-A (FPC Slot 6, PIC Slot 0) last
message repeated 8 times
Aug 31 14:07:39 BRI-DRC-SRX3400-A sshd[53768]: subsystem
request for netconf
Sep 5 12:16:12 BRI-DRC-SRX3400-A (FPC Slot 6, PIC Slot 0) last
message repeated 9 times
Aug 31 14:22:39 BRI-DRC-SRX3400-A sshd[53768]: subsystem
request for netconf
Sep 5 12:33:16 BRI-DRC-SRX3400-A (FPC Slot 6, PIC Slot 0)
xntpd[163]: NTP Server Unreachable
```

### 3.1.9 Catalyst 4503

Untuk dapat melihat konfigurasi atau mengkonfigurasi Catalyst 4503, user harus login ke Catalyst 4503 terlebih dahulu dengan cara console, telnet atau ssh ke Catalyst 4503.

```
wcsdrc@cacti: ~
admin@m10-DRC: Read from remote host m10drc: Connection reset by peer
Connection to m10drc closed.
wcsdrc@cacti:~$ ssh 172.29.33.1 -l ipnet
ipnet@172.29.33.1's password:
C
=====
PT. BANK RAKYAT INDONESIA TBK
DRC TABANAN
CATALYST 4503 A
AUTHORIZED USER ONLY
=====
BRI-DRC-CAT45-A#
```

Masukkan username dan Password.

Setiap perubahan konfigurasi, permintaan perubahan konfigurasi atau permintaan informasi mengenai konfigurasi perangkat Catalyst harus disetujui oleh Bagian Operasional Jaringan Komunikasi BRI-DC.

#### 3.1.9.1 Melihat Status Interface

```
BRI-DRC-CAT45-A#show ip interface brief
Interface      IP-Address  OK? Method Status      Protocol
Vlan1          unassigned  YES NVRAM down       down
Vlan5          172.30.129.254 YES manual up        up
Vlan10         172.30.130.1  YES manual up        up
Vlan20         172.30.131.1  YES manual up        up
Vlan30         172.30.132.1  YES manual administratively down down
Vlan40         172.30.133.1  YES manual up        up
Vlan50         172.30.134.1  YES manual up        up
Vlan60         172.30.135.1  YES manual up        up
Vlan70         172.30.136.1  YES manual up        up
FastEthernet1  172.19.149.101 YES manual up        up
GigabitEthernet1/1  unassigned  YES manual down     down
GigabitEthernet1/2  unassigned  YES unset down      down
GigabitEthernet2/1  115.255.0.1 YES manual up        up
GigabitEthernet2/2  unassigned  YES manual down     down
GigabitEthernet2/3  unassigned  YES unset down      down
BRI-DRC-CAT45-A#
```

### 3.1.9.2 Melihat Konfigurasi Yang Sedang Berjalan

```
BRI-DRC-CAT45-A#show running-config
Building configuration...

Current configuration : 6474 bytes
!
! Last configuration change at 11:13:09 WIB Fri Sep 7 2012 by ipnet
! NVRAM config last updated at 11:14:17 WIB Fri Sep 7 2012 by ipnet
!
version 12.2
no service pad
service timestamps debug datetime msec
service timestamps log datetime msec
no service password-encryption
service compress-config
!
hostname BRI-DRC-CAT45-A
!
boot-start-marker
boot-end-marker
!
no logging console
enable secret 5 $1$LQFm$P4kAYAMMqJrSfIEuIJKX3.
!
username ipnet privilege 15 secret 5
$1$CWvG$F/zRT5HdIsgeEbuDSml2L/
username ojk privilege 15 secret 5 $1$.GFC$vcwq8gyO0gKwxa4d1F7cV0
no aaa new-model
clock timezone WIB 7
```

### 3.1.9.3 Melihat Routing

```
BRI-DRC-CAT45-A#show ip route
Codes: C - connected, S - static, R - RIP, M - mobile, B - BGP
D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
E1 - OSPF external type 1, E2 - OSPF external type 2
i - IS-IS, su - IS-IS summary, L1 - IS-IS level-1, L2 - IS-IS level-2
ia - IS-IS inter area, * - candidate default, U - per-user static route
o - ODR, P - periodic downloaded static route
```

Gateway of last resort is not set

```
B  192.168.123.0/24 [20/0] via 172.29.44.1, 7w0d
    51.0.0.0/8 is variably subnetted, 145 subnets, 4 masks
B      51.46.28.0/24 [20/0] via 172.29.44.1, 7w0d
```

B 51.39.76.91/32 [20/0] via 172.29.44.1, 6w6d  
B 51.64.44.91/32 [20/0] via 172.29.44.1, 5w2d  
B 51.46.24.0/24 [20/0] via 172.29.44.1, 7w0d  
B 51.39.72.91/32 [20/0] via 172.29.44.1, 6w6d  
B 51.46.20.0/24 [20/0] via 172.29.44.1, 7w0d  
B 51.45.20.0/24 [20/0] via 172.29.44.1, 7w0d  
B 51.46.16.0/24 [20/0] via 172.29.44.1, 7w0d  
B 51.35.0.0/16 [20/0] via 172.29.44.1, 7w0d  
B 51.46.12.0/24 [20/0] via 172.29.44.1, 7w0d  
B 51.34.0.0/17 [20/0] via 172.29.44.1, 7w0d  
B 51.45.12.0/24 [20/0] via 172.29.44.1, 7w0d  
B 51.33.0.0/17 [20/0] via 172.29.44.1, 7w0d  
B 51.32.0.0/17 [20/0] via 172.29.44.1, 7w0d  
--More--

### 3.1.9.4 Melihat VLAN

BRI-DRC-CAT45-A#show vlan

VLAN Name	Status	Ports
1 default	active	Gi1/2, Gi2/3, Gi2/4, Gi2/5 Gi2/6, Gi2/7, Gi2/8, Gi2/9 Gi2/10, Gi2/11, Gi2/12, Gi2/13 Gi2/14, Gi2/15, Gi2/16, Gi2/18 Gi2/19, Gi2/20, Gi2/21, Gi2/22 Gi2/23, Gi2/24, Gi2/25, Gi2/26 Gi2/27, Gi2/28, Gi2/29, Gi2/30 Gi2/31, Gi2/32, Gi2/33, Gi2/34 Gi2/35, Gi2/36, Gi2/37, Gi2/38 Gi2/39, Gi2/40, Gi2/41, Gi2/42
5 VLAN0005	active	
10 VLAN0010	active	
20 VLAN0020	active	
30 VLAN0030	active	
40 VLAN0040	active	
50 VLAN0050	active	
60 VLAN0060	active	
70 VLAN0070	active	
1002 fddi-default	act/unsup	
1003 token-ring-default	act/unsup	
1004 fddinet-default	act/unsup	
1005 trnet-default	act/unsup	
VLAN Type	SAID	MTU Parent RingNo BridgeNo Stp BrdgMode
Trans1	Trans2	



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1	enet	100001	1500	-	-	-	-	0	0
5	enet	100005	1500	-	-	-	-	0	0
10	enet	100010	1500	-	-	-	-	0	0
20	enet	100020	1500	-	-	-	-	0	0
30	enet	100030	1500	-	-	-	-	0	0
40	enet	100040	1500	-	-	-	-	0	0
50	enet	100050	1500	-	-	-	-	0	0
60	enet	100060	1500	-	-	-	-	0	0
70	enet	100070	1500	-	-	-	-	0	0
1002	fddi	101002	1500	-	-	-	-	0	0
1003	tr	101003	1500	-	-	-	-	0	0
1004	fdnet	101004	1500	-	-	-	ieee	0	0
1005	trnet	101005	1500	-	-	-	ibm	0	0

### Remote SPAN VLANs

---

Primary	Secondary	Type	Ports
---------	-----------	------	-------

---

BRI-DRC-CAT45-A#

### 3.1.9.5 Melihat ARP

BRI-DRC-CAT45-A#show ip arp

Protocol	Address	Age (min)	Hardware Addr	Type	Interface
Internet	172.30.131.1	-	0026.cb32.fe3f	ARPA	Vlan20
Internet	172.30.130.1	-	0026.cb32.fe3f	ARPA	Vlan10
Internet	172.30.129.2	161	0018.18e2.b841	ARPA	Vlan5
Internet	172.30.129.1	178	0000.0c07.ac37	ARPA	Vlan5
Internet	172.30.131.2	75	0024.1400.2641	ARPA	Vlan20
Internet	172.30.135.1	-	0026.cb32.fe3f	ARPA	Vlan60
Internet	172.30.133.2	95	ecc8.8227.83f2	ARPA	Vlan40
Internet	172.30.134.1	-	0026.cb32.fe3f	ARPA	Vlan50
Internet	172.30.133.1	-	0026.cb32.fe3f	ARPA	Vlan40
Internet	172.30.134.2	101	0023.ac98.25c1	ARPA	Vlan50
Internet	172.30.135.2	63	0027.0de1.4ce1	ARPA	Vlan60
Internet	172.30.136.2	79	0025.454d.63f1	ARPA	Vlan70
Internet	172.30.136.1	-	0026.cb32.fe3f	ARPA	Vlan70
Internet	115.255.0.200	12	0016.353c.8366	ARPA	
GigabitEthernet2/1					
Internet	115.255.0.201	27	00e0.8602.2271	ARPA	
GigabitEthernet2/					

### 3.1.9.6 Melihat Suhu Perangkat & Status PSU

BRI-DRC-CAT45-A#show environment

no alarm

Chassis Temperature = 35 degrees Celsius

Chassis Over Temperature Threshold = 75 degrees Celsius

Chassis Critical Temperature Threshold = 95 degrees Celsius

Power	Supply	Model No	Type	Fan	Status	Sensor	Inline
	PS1	PWR-C45-1400AC	AC 1400W	good	good	n.a.	
	PS2	PWR-C45-1400AC	AC 1400W	good	good	n.a.	

Power supplies needed by system : 1

Power supplies currently available : 2

Chassis Type : WS-C4506-E

Power consumed by backplane : 0 Watts

Switch Bandwidth Utilization : 0%

Supervisor Led Color : Green

Module 1 Status Led Color : Green

Module 2 Status Led Color : Green

Fantray : Good

Power consumed by Fantray : 120 Watts

### 3.1.9.7 Melihat Log Messages

BRI-DRC-CAT45-A# show log

Syslog logging: enabled (0 messages dropped, 1 messages rate-limited, 0 flushes, 0 overruns, xml disabled, filtering disabled)

No Active Message Discriminator.

No Inactive Message Discriminator.

Console logging: disabled

Monitor logging: level debugging, 0 messages logged, xml disabled, filtering disabled

Buffer logging: level debugging, 1395 messages logged, xml disabled, filtering disabled

Exception Logging: size (8192 bytes)

Count and timestamp logging messages: disabled

Persistent logging: disabled

No active filter modules.

Trap logging: level informational, 3251 message lines logged

Log Buffer (4096 bytes):

s 1 area dummy area: LSA origination prevented by LSA with same LSID but a different mask

Existing Type 5 LSA: LSID 172.30.164.0/24

New Destination: 172.30.164.0/32

Sep 16 06:24:23.861: %OSPF-4-CONFLICTING\_LSAID: Process 1 area dummy area: LSA origination prevented by LSA with same LSID but a different mask

Existing Type 5 LSA: LSID 10.10.10.7/29

New Destination: 10.10.10.7/32

Sep 16 06:25:24.487: %OSPF-4-CONFLICTING\_LSAID: Process 1 area dummy area: LSA origination prevented by LSA with same LSID but a different mask

Existing Type 5 LSA: LSID 172.30.164.0/24

New Destination: 172.30.164.0/32

Sep 17 04:58:56.176: %OSPF-4-CONFLICTING\_LSAID: Process 1 area dummy area: LSA origination prevented by LSA with same LSID but a different mask

Existing Type 5 LSA: LSID 10.10.10.7/29

New Destination: 10.10.10.7/32



DIS/PAN-04-01-00 : 12:01:00

### 3.1.9.8 Melihat Versi Perangkat

BRI-DRC-CAT45-A#show version

Cisco IOS Software, Catalyst 4500 L3 Switch Software (cat4500-ENTSERVICESK9-M), Version 12.2(50)SG2, RELEASE SOFTWARE (fc2)

Technical Support: <http://www.cisco.com/techsupport>

Copyright (c) 1986-2009 by Cisco Systems, Inc.

Compiled Mon 27-Apr-09 15:09 by prod\_rel\_team

Image text-base: 0x10000000, data-base: 0x11F9E9CC

ROM: 12.2(31r)SGA2

Dagobah Revision 226, Swamp Revision 32

BRI-DRC-CAT45-A uptime is 1 year, 15 weeks, 4 days, 21 minutes

System returned to ROM by power-on

System restarted at 16:11:05 WIB Wed Jun 8 2011

System image file is "bootflash:cat4500-entservicesk9-mz.122-50.SG2.bin"

### 3.2 Membuat Daily Report

Laporan Harian dibuat setiap hari dengan format ekstensi doc dan dikirim melalui email ke [dailyops\\_wcs@bri.co.id](mailto:dailyops_wcs@bri.co.id) dan di copy carbon (cc) ke [agoeng@bri.co.id](mailto:agoeng@bri.co.id); [dani.wf@corp.bri.co.id](mailto:dani.wf@corp.bri.co.id); [techspv@ipnetsolusindo.com](mailto:techspv@ipnetsolusindo.com) [tsi\\_odr@bri.co.id](mailto:tsi_odr@bri.co.id) sebelum jam 07:30 WITA.

Berikut adalah langkah-langkah untuk membuat Daily Report.

No.	Job	Description of Action
1	<b>Template Daily Report</b>	<ul style="list-style-type: none"><li>• Buka Template Daily Report di D:\MASTER\TEMPLATE\Daily Report atau buka Daily Report hari sebelumnya di D:\Data Terupdate WCS\#OPERASIONAL\2012\Bulan\Tanggal (exp: D:\Data Terupdate WCS\#OPERASIONAL\2012\05_Mei\01\Daily Report.doc)</li><li>• Save As dengan filename Daily Report.doc dengan tanggal hari yang sesuai di folder tanggal berjalan.</li></ul>
2	<b>Capture Network Traffic Monitoring</b>	<ul style="list-style-type: none"><li>• Buka index.htm di Web Mozilla atau IE , pada kolom bar address isi 131.100.55.153/cacti , isi login : wcs dan password : wcs. Kemudian klik Graph\Reporting\DR<sub>C</sub>\Replikasi DR<sub>C</sub></li></ul>
3	<b>Capture Passport 8600 -DR<sub>C</sub> CPU UTILIZATION</b>	<ul style="list-style-type: none"><li>• Buka Web dengan menggunakan Mozilla atau IE kemudian isi bar address dengan 131.100.55.153/cacti kemudian klik Graph\DR<sub>C</sub>\Router DR<sub>C</sub>, klik PP DR<sub>C</sub></li><li>• klik Gambar Traffic PP DR<sub>C</sub> - CPU Utilization</li><li>• Copy (CTRL+C)</li><li>• Kembali ke Daily Report.doc</li><li>• Select 'PP DR<sub>C</sub>- Utilization Status' pada Daily Report.doc</li><li>• Paste (CTRL+V)</li><li>• Save (CTRL+S)</li><li>• Kembali ke halaman pertama window 131.100.55.153/cacti</li></ul>
4	<b>Capture Juniper EX CORE-DR<sub>C</sub> CPU Utilization</b>	<p><b>Capture Juniper EXCORE82 DR<sub>C</sub> A - Master CPU Usage</b></p> <ul style="list-style-type: none"><li>• Buka Web dengan menggunakan Mozilla atau IE kemudian isi bar address dengan 131.100.55.153/cacti klik Graph\DR<sub>C</sub>\Router DR<sub>C</sub>, klik EXCORE82 DR<sub>C</sub> A</li><li>• klik Gambar Traffic EXCORE82 DR<sub>C</sub> A - Master CPU Usage</li></ul>

- klik Gambar Traffic EXCORE82 DRC A ( daily-1minute Average)- Master CPU Usage

- Copy (CTRL+C)

- Kembali ke Daily Report.doc

- Select 'Juniper EXCORE-DRC CPU UTILIZATION' pada Daily Report.doc

- Paste (CTRL+V)

- Kembali ke halaman pertama window 131.100.55.153/cacti

#### **Capture Juniper EXCORE82 DRC A - Backup CPU Usage**

- Buka Web dengan menggunakan Mozilla atau IE kemudian isi bar address dengan 131.100.55.153/cacti klik Graph\DR<sub>C</sub>\Router DR<sub>C</sub>, klik EXCORE82 DR<sub>C</sub> A

- klik Gambar Traffic EXCORE82 DR<sub>C</sub> A - Backup CPU Usage

- klik Gambar Traffic EXCORE82 DR<sub>C</sub> A - Backup CPU Usage ( daily-1minute Average)- Backup CPU Usage

- Copy (CTRL+C)

- Kembali ke Daily Report.doc

- Select 'Juniper EXCORE-DRC CPU UTILIZATION' pada Daily Report.doc

- Paste (CTRL+V)

- Kembali ke halaman pertama window 131.100.55.153/cacti

#### **Capture Juniper EXCORE82 DR<sub>C</sub> B - Master CPU Usage**

- Buka Web dengan menggunakan Mozilla atau IE kemudian isi bar address dengan 131.100.55.153/cacti klik Graph\DR<sub>C</sub>\Router DR<sub>C</sub>, klik EXCORE82 DR<sub>C</sub> B

- klik Gambar Traffic EXCORE82 DR<sub>C</sub> B - Master CPU Usage

- klik Gambar Traffic EXCORE82 DR<sub>C</sub> B - Master CPU Usage ( daily-1minute Average)- Master CPU Usage

- Copy (CTRL+C)

- Kembali ke Daily Report.doc

- Select 'Juniper EXCORE-DRC CPU UTILIZATION' pada Daily Report.doc

- Paste (CTRL+V)

- Kembali ke halaman pertama window 131.100.55.153/cacti

	<p><b>Capture Juniper EXCORE82 DRC B - Backup CPU Usage</b></p> <ul style="list-style-type: none"><li>• Buka Web dengan menggunakan Mozilla atau IE kemudian isi bar address dengan 131.100.55.153/cacti klik Graph\Router DRC , klik EX CORE DRC B</li><li>• klik Gambar Traffic EX-CORE DRC B - Backup CPU Usage</li><li>• klik Gambar Traffic EX-CORE DRC B( daily-1minute Average)- Backup CPU Usage</li><li>• Copy (CTRL+C)</li><li>• Kembali ke Daily Report.doc</li><li>• Select 'Juniper EXCORE-DRC CPU UTILIZATION' pada Daily Report.doc</li></ul> <p>• Paste (CTRL+V)</p> <ul style="list-style-type: none"><li>• Kembali ke halaman pertama window 131.100.55.153/cacti</li></ul>
5	<p><b>Capture Cisco Catalyst 4503-DRC A CPU UTILIZATION</b></p> <ul style="list-style-type: none"><li>• Buka Web dengan menggunakan Mozilla atau IE kemudian isi bar address dengan 131.100.55.153/cacti klik Graph\Router DRC , klik CAT4503A DRC</li></ul> <p>• klik Gambar TrafficCAT 4503A DRC - CPU Usage</p> <p>• klik Gambar Traffic CAT4503A DRC - CPU Usage (daily-1minute Average)</p> <ul style="list-style-type: none"><li>• Copy (CTRL+C)</li><li>• Kembali ke Daily Report.doc</li><li>• Select 'CISCO CATALYST 4503-DRC CPU UTILIZATION' pada Daily Report.doc</li></ul> <p>• Paste (CTRL+V)</p> <p>• Kembali ke halaman pertama window 131.100.55.153/cacti</p>

	<b>Capture Cisco Catalyst 4503-DRC B CPU UTILIZATION</b>
	<ul style="list-style-type: none"><li>• Buka Web dengan menggunakan Mozilla atau IE kemudian isi bar address dengan 131.100.55.153/cacti klik Graph\Router DRC , klik CAT4503B DRC</li></ul>
	<ul style="list-style-type: none"><li>• klik Gambar Traffic CAT4503B DRC - CPU Usage</li></ul>
	<ul style="list-style-type: none"><li>• klik Gambar Traffic CAT4503B DRC - CPU Usage (daily-1minute Average)</li></ul>
	<ul style="list-style-type: none"><li>• Copy (CTRL+C)</li></ul>
	<ul style="list-style-type: none"><li>• Kembali ke Daily Report.doc</li></ul>
	<ul style="list-style-type: none"><li>• Select 'CISCO CATALYST 4503-DRC CPU UTILIZATION' pada Daily Report.doc</li></ul>
	<ul style="list-style-type: none"><li>• Paste (CTRL+V)</li></ul>
	<ul style="list-style-type: none"><li>• Kembali ke halaman pertama window 131.100.55.153/cacti</li></ul>
6 <b>Capture BCN-DRC Utilization</b>	<b>Capture BCN-DRC Utilization (E34-M10)</b>
	<ul style="list-style-type: none"><li>• Buka Web dengan menggunakan Mozilla atau IE kemudian isi bar address dengan 131.100.55.153/cacti klik Graph\Router DRC, klik BCN DRC</li></ul>
	<ul style="list-style-type: none"><li>• klik Gambar Traffic BCN DRC - CPU Usage</li></ul>
	<ul style="list-style-type: none"><li>• klik Gambar Traffic BCN DRC - Traffic - 60.1.2.161 (E34-M10)</li></ul>
	<ul style="list-style-type: none"><li>• Copy (CTRL+C)</li></ul>
	<ul style="list-style-type: none"><li>• Kembali ke Daily Report.doc</li></ul>
	<ul style="list-style-type: none"><li>• Select 'BCN DRC - Traffic - 60.1.2.161 (E34-M10)' pada daily report.doc</li></ul>
	<ul style="list-style-type: none"><li>• Paste (CTRL+V)</li></ul>
	<ul style="list-style-type: none"><li>• Kembali ke halaman pertama window 131.100.55.153/cacti</li></ul>
	<b>Capture BCN-DRC Utilization (E12-PP7400)</b>
	<ul style="list-style-type: none"><li>• Buka Web dengan menggunakan Mozilla atau IE kemudian isi bar address dengan 131.100.55.153/cacti klik Graph\Router DRC, klik BCN DRC</li></ul>
	<ul style="list-style-type: none"><li>• Buka Web dengan menggunakan Mozilla atau IE kemudian isi bar address dengan 131.100.55.153/cacti klik Router DRC , klik BCN DRC</li></ul>
	<ul style="list-style-type: none"><li>• klik Gambar Traffic BCN DRC - CPU Usage</li></ul>

- klik Gambar Traffic BCN DRC - Trafic - 60.1.2.9 (E12-PP7400)

- Copy (CTRL+C)

- Kembali ke Daily Report.doc

- Select 'BCN DRC TRAFFIC' Trafic - 60.1.2.9 (E12-PP7400) pada daily report.doc

- Paste (CTRL+V)

- Kembali ke halaman pertama window  
131.100.55.153/cacti

#### **Capture BCN-DRC Utilization (E31-MGT\_M10)**

- Buka Web dengan menggunakan Mozilla atau IE kemudian isi bar address dengan 131.100.55.153/cacti klik Graph\DR\Router DRC, klik BCN DRC

- klik Gambar Traffic BCN DRC - CPU Usage

- klik Gambar Traffic BCN DRC - Traffic - 60.1.2.21 (E31-MGT\_M10)

- Copy (CTRL+C)

- Kembali ke Daily Report.doc

- Select 'BCN DRC - Traffic - 60.1.2.21 (E31-MGT\_M10)' pada daily report.doc

- Paste (CTRL+V)

- Kembali ke halaman pertama window  
131.100.55.153/cacti

#### **Capture BCN-DRC Utilization (E32-Management)**

- Buka Web dengan menggunakan Mozilla atau IE kemudian isi bar address dengan 131.100.55.153/cacti klik Graph\DR\Router DRC, klik BCN DRC

- klik Gambar Traffic BCN DRC - CPU Usage

- klik Gambar Traffic BCN DRC - Traffic - 115.255.0.1 (E32-Management)

- Copy (CTRL+C)

- Kembali ke Daily Report.doc

- Select 'BCN DRC TRAFFIC' Trafic - 115.255.0.1(E32-Management) pada daily report.doc

- Paste (CTRL+V)

- Kembali ke halaman pertama window  
131.100.55.153/cacti

		<b>Capture Juniper EX 3200 DRC CPU UTILIZATION</b>
		<ul style="list-style-type: none"><li>• Buka Web dengan menggunakan Mozilla atau IE kemudian isi bar address dengan 131.100.55.153/cacti klik Graph\Router DRC, klik EX32-MIMIX-DRC</li></ul>
		<ul style="list-style-type: none"><li>• klik Gambar Traffic EX32-MIMIX-DRC - CPU Usage</li></ul>
		<ul style="list-style-type: none"><li>• klik Gambar Traffic EX32-MIMIX-DRC - CPU Usage (daily-1minute Average)</li></ul>
		<ul style="list-style-type: none"><li>• Copy (CTRL+C)</li></ul>
		<ul style="list-style-type: none"><li>• Kembali ke Daily Report.doc</li></ul>
		<ul style="list-style-type: none"><li>• Select 'EX32-MIMIX-DRC - CPU Usage' pada Daily Report.doc</li></ul>
		<ul style="list-style-type: none"><li>• Paste (CTRL+V)</li></ul>
		<ul style="list-style-type: none"><li>• Kembali ke halaman pertama window 131.100.55.153/cacti</li></ul>
		<b>Capture Juniper EX 3200 L2VPN DRC CPU UTILIZATION</b>
		<ul style="list-style-type: none"><li>• Buka Web dengan menggunakan Mozilla atau IE kemudian isi bar address dengan 131.100.55.153/cacti klik Graph\Router DRC, klik EX32-L2VPN-DRC</li></ul>
		<ul style="list-style-type: none"><li>• klik Gambar Traffic EX32-L2VPN-DRC - CPU Usage</li></ul>
		<ul style="list-style-type: none"><li>• klik Gambar Traffic EX32-L2VPN-DRC - CPU Usage (daily-1minute Average)</li></ul>
		<ul style="list-style-type: none"><li>• Copy (CTRL+C)</li></ul>
		<ul style="list-style-type: none"><li>• Kembali ke Daily Report.doc</li></ul>
		<ul style="list-style-type: none"><li>• Select 'EX22-L2VPN-DRC - CPU Usage' pada Daily Report.doc</li></ul>
		<ul style="list-style-type: none"><li>• Paste (CTRL+V)</li></ul>
		<ul style="list-style-type: none"><li>• Kembali ke halaman pertama window 131.100.55.153/cacti</li></ul>
		<b>Capture MIMIX 60.0.8.5</b>
		<ul style="list-style-type: none"><li>• Buka Web dengan menggunakan Mozilla atau IE kemudian isi bar address dengan 131.100.55.153/cacti klik Graph\Router DRC, klik EX32-MIMIX-DRC</li></ul>
		<ul style="list-style-type: none"><li>• klik Gambar Traffic EX32-MIMIX-DRC - Traffic - to_MIMIX_60.0.8.5</li></ul>
		<ul style="list-style-type: none"><li>• Copy (CTRL+C)</li></ul>
		<ul style="list-style-type: none"><li>• Kembali ke Daily Report.doc</li></ul>
		<ul style="list-style-type: none"><li>• Select '1. To MIMIX 60.0.8.5 P/34 pada Daily Report.doc</li></ul>
		<ul style="list-style-type: none"><li>• Paste (CTRL+V)</li></ul>
		<ul style="list-style-type: none"><li>• Save (CTRL+S)</li></ul>
		<ul style="list-style-type: none"><li>• Kembali ke halaman pertama window 131.100.55.153/cacti</li></ul>

## 7      **Capture Juniper EX 3200 DRC Traffic**

<b>Capture LAN 1 PCI 1 WAAS DRC05 60.0.4.6 P/12</b>	
	<ul style="list-style-type: none"><li>• Buka Web dengan menggunakan Mozilla atau IE kemudian isi <i>bar address</i> dengan 131.100.55.153/cacti klik Graph\Router DRC, klik EX32-MIMIX-DRC</li><li>• klik Gambar Traffic EX32-MIMIX-DRC - Traffic Mimix GTI to DRC - LAN1_WAAS_5</li><li>• Copy (CTRL+C)</li><li>• Kembali ke Daily Report.doc</li><li>• Select '2. To LAN 1 PCI 1 WAAS DRC05 60.0.4.6 P/12' pada Daily Report.doc</li><li>• Paste (CTRL+V)</li><li>• Save (CTRL+S)</li><li>• Kembali ke halaman pertama window 131.100.55.153/cacti</li></ul>
<b>Capture WAN 1 PCI 1 WAAS DRC05 60.0.4.6 P/13</b>	
	<ul style="list-style-type: none"><li>• Buka Web dengan menggunakan Mozilla atau IE kemudian isi <i>bar address</i> dengan 131.100.55.153/cacti klik Graph\Router DRC, klik EX32-MIMIX-DRC</li><li>• klik Gambar Traffic EX32-MIMIX-DRC - Traffic MIMIX GTI to DRC- to_WAN1_WAAS_5</li><li>• Copy (CTRL+C)</li><li>• Kembali ke Daily Report.doc</li><li>• Select '3. To WAN 1 PCI 1 WAAS DRC05 60.0.4.6 P/13' pada Daily Report.doc</li><li>• Paste (CTRL+V)</li><li>• Save (CTRL+S)</li><li>• Kembali ke halaman pertama window 131.100.55.153/cacti</li></ul>
<b>Capture NetApp</b>	
	<ul style="list-style-type: none"><li>• Buka Web dengan menggunakan Mozilla atau IE kemudian isi <i>bar address</i> dengan 131.100.55.153/cacti klik Graph\Router DRC, klik EX32-MIMIX-DRC</li><li>• klik Gambar Traffic EX32-MIMIX-DRC - Traffic - to_NetApp_ge-0/0/30</li><li>• Copy (CTRL+C)</li><li>• Kembali ke Daily Report.doc</li><li>• Select '4. To NetApp P/30 pada Daily Report.doc</li><li>• Paste (CTRL+V)</li><li>• Save (CTRL+S)</li><li>• Kembali ke halaman pertama window 131.100.55.153/cacti</li></ul>

**Capture NETAPP/ LAN 1 PCI 2 WAAS DRC04  
60.0.8.7/P.18**

- Buka Web dengan menggunakan Mozilla atau IE kemudian isi *bar address* dengan 131.100.55.153/cacti klik Graph\Router DRC, klik EX32-MIMIX-DRC
- klik Gambar Traffic EX32-MIMIX-DRC - Traffic NetApp - to\_LAN1\_WAAS\_4
- Copy (CTRL+C)
- Kembali ke Daily Report.doc
- Select '5. To LAN 1 PCI 2 WAAS DRC04 60.0.8.7 P/18 pada Daily Report.doc
- Paste (CTRL+V)
- Save (CTRL+S)
- Kembali ke halaman pertama window 131.100.55.153/cacti

**Capture NETAPP/ WAN 1 PCI 2 WAAS DRC04  
60.0.8.7/P.19**

- Buka Web dengan menggunakan Mozilla atau IE kemudian isi *bar address* dengan 131.100.55.153/cacti klik Graph\Router DRC, klik EX32-MIMIX-DRC
- klik Gambar Traffic EX32-MIMIX-DRC - Traffic - to\_NetApp\_ge-0/0/30
- Copy (CTRL+C)
- Kembali ke Daily Report.doc
- Select '6. To WAN 1 PCI 2 WAAS DRC04 60.0.8.7 P/19 pada Daily Report.doc
- Paste (CTRL+V)
- Save (CTRL+S)
- Kembali ke halaman pertama window 131.100.55.153/cacti

**Capture WEB EBANK/ LAN 1 PCI 1 WAAS DRC04  
60.0.8.7 P/Ge-0/1 (SW REP WebEbank-DRC)**

- Buka Web dengan menggunakan Mozilla atau IE kemudian isi *bar address* dengan 131.100.55.153/cacti klik Graph\Router DRC, klik EX32-MIMIX-DRC
- klik Gambar Traffic SW REP-WebEbank-DRC - Traffic - Gi0/1
- Copy (CTRL+C)
- Kembali ke Daily Report.doc
- Select '7. To LAN 1 PCI 1 WAAS DRC04 60.0.8.7 P/Ge-0/1 (SW REP WebEbank-DRC) pada Daily Report.doc

- Paste (CTRL+V)

- Save (CTRL+S)

• Kembali ke halaman pertama window 131.100.55.153/cacti

#### **Capture WEB EBANK/ WAN 1 PCI 1 WAAS DRC04 60.0.8.7 P/17**

- Buka Web dengan menggunakan Mozilla atau IE kemudian isi *bar address* dengan 131.100.55.153/cacti klik Graph\Router DRC, klik EX32-MIMIX-DRC

- klik Gambar Traffic EX32-MIMIX-DRC - Traffic WebEbank dan Hitachi- to\_WAN1\_WAAS\_4

- Copy (CTRL+C)

- Kembali ke Daily Report.doc

- Select ‘**8. To WAN 1 PCI 1 WAAS DRC04 60.0.8.7 P/17** pada Daily Report.doc

- Paste (CTRL+V)

- Save (CTRL+S)

• Kembali ke halaman pertama window 131.100.55.153/cacti

#### **Capture WAY4**

- Buka Web dengan menggunakan Mozilla atau IE kemudian isi *bar address* dengan 131.100.55.153/cacti klik Graph\Router DRC, klik EX32-MIMIX-DRC

- klik Gambar Traffic EX32-MIMIX-DRC - Traffic - ge-0/0/23

- Copy (CTRL+C)

- Kembali ke Daily Report.doc

- Select ‘**9. To Way4 P/23** pada Daily Report.doc

- Paste (CTRL+V)

- Save (CTRL+S)

• Kembali ke halaman pertama window 131.100.55.153/cacti

#### **Capture WAY4/LAN 0 PCI 1 WAAS DRC 04 60.0.8.7/P.24**

- Buka Web dengan menggunakan Mozilla atau IE kemudian isi *bar address* dengan 131.100.55.153/cacti klik Graph\Router DRC, klik EX32-MIMIX-DRC

- klik Gambar Traffic EX32-MIMIX-DRC - Traffic LAN WAY4 - to\_LAN0\_WAAS\_4

- Copy (CTRL+C)

- Kembali ke Daily Report.doc

		<ul style="list-style-type: none"><li>• Select '<b>10. To LAN 0 PCI 1 WAAS DRC04 60.0.8.7 P/24</b>' pada Daily Report.doc</li><li>• Paste (CTRL+V)</li><li>• Save (CTRL+S)</li><li>• Kembali ke halaman pertama window 131.100.55.153/cacti</li></ul> <p><b>Capture WAY4/WAN 0 PCI 1 WAAS DRC 04 60.0.8.7/P.25</b></p> <ul style="list-style-type: none"><li>• Buka Web dengan menggunakan Mozilla atau IE kemudian isi <i>bar address</i> dengan 131.100.55.153/cacti klik Graph\DRc\Router DRC, klik EX32-MIMIX-DRC</li></ul>
8	<b>Capture M10 DRC Traffic</b>	<ul style="list-style-type: none"><li>• klik Gambar Traffic EX32-MIMIX-DRC - Traffic WAN WAY4 - to_WAN0_WAAS_4</li><li>• Copy (CTRL+C)</li><li>• Kembali ke Daily Report.doc</li><li>• Select '<b>11. To WAN 0 PCI 1 WAAS DRC04 60.0.8.7 P/25</b>' pada Daily Report.doc</li><li>• Paste (CTRL+V)</li><li>• Save (CTRL+S)</li><li>• Kembali ke halaman pertama window 131.100.55.153/cacti</li></ul> <p><b>Capture M10i DRC To SUD Telkom - so-1/2/0</b></p> <ul style="list-style-type: none"><li>• Buka Web dengan menggunakan Mozilla atau IE kemudian isi <i>bar address</i> dengan 131.100.55.153/cacti klik Graph\DRc\Router DRC, klik <b>Juniper M10i DRC</b></li><li>• klik Gambar Traffic Juniper M10i DRC - Traffic STM-1 DRC to SUD Telkom- so-1/2/0</li><li>• Copy (CTRL+C)</li><li>• Kembali ke Daily Report.doc</li><li>• Select '<b>Juniper M10i DRC - Traffic STM-1 DRC to SUD Telkom- so-1/2/0</b>' pada Daily Report.doc</li><li>• Paste (CTRL+V)</li><li>• Save (CTRL+S)</li><li>• Kembali ke halaman pertama window 131.100.55.153/cacti</li></ul>



DIS/PAN-04-01-00 : 12:01:00

Capture M10i DRC To GTI Icon+ - so-1/2/1	
	<ul style="list-style-type: none"><li>• Buka Web dengan menggunakan Mozilla atau IE kemudian isi <i>bar address</i> dengan 131.100.55.153/cacti klik Graph\DR\Router DRC, klik <b>Juniper M10i DRC</b></li><li>• klik Gambar Juniper M10i DRC - Traffic STM-1 DRC to GTI Icon+ - so-1/2/1</li><li>• Copy (CTRL+C)</li><li>• Kembali ke Daily Report.doc</li></ul>
	<ul style="list-style-type: none"><li>• Select '<b>Juniper M10i DRC - Traffic STM-1 DRC to GTI Icon+ - so-1/2/1</b>' pada Daily Report.doc</li></ul>
	<ul style="list-style-type: none"><li>• Paste (CTRL+V)</li></ul>
	<ul style="list-style-type: none"><li>• Save (CTRL+S)</li></ul>
	<ul style="list-style-type: none"><li>• Kembali ke halaman pertama window 131.100.55.153/cacti</li></ul>



DIS/PAN-04-01-00 : 12:01:00

### 3.3 Mengisi Ceklis Harian BRI

Pengisian ceklist harian BRI ini dilakukan di akhir shift bertugas, yang pertanggal 1 September 2012, checklist harian sudah langsung dilaksanakan pada portal DRC, dengan alamat url: [126.2.0.250/myportaldrc/](http://126.2.0.250/myportaldrc/)

The screenshot shows a Mozilla Firefox browser window displaying the BRI DRC portal. The URL is 126.2.0.250 > Myportaldrc > Main.php > Module = Home. The page title is "LAPORAN KEGIATAN ODR BULAN AGUSTUS 2012". The left sidebar has a navigation menu with "BRI DRC" selected. The main content area displays a table of data:

LAPORAN KEGIATAN ODR BULAN AGUSTUS 2012	
Update Status : Tanggal 24 Sep 2012	
1	Total Realisasi Biaya 2012 : Rp 1,137,648,237
2	Total Realisan Biaya (Khusus Bulan Agustus 2012 saja) : Rp 139,052,385
3	Total Pendapatan Guest House : Rp 46,500,726
4	Ratasi Pencapaian SLA Current BRINET (Agustus 2012) : 114.8%
5	Ratasi Pencapaian Backup Before BRINETs (Agustus 2012) : 100%
6	Ratasi Pencapaian Up Time Server (Agustus 2012) : 100%
7	Total Perangkat Server : 316
	- Server Intel Blade : 201
	- Server Intel Rackmounted : 99
	- Server Intel f Blade : 0
	- Server IBM pSeries : 4
	- Server IBM iSeries : 3
	- Server IBM zSeries : 0
	- Server IBM xSeries : 3
	- Server Lain-lain : 5
8	Total Server Aplikasi Operasional : 117

The screenshot shows a Mozilla Firefox browser window displaying the BRI DRC portal. The URL is 126.2.0.250 > Myportaldrc > Main.php > Module = BRI-CheckList. The page title is "CHECK LIST HARIAN DRC". The left sidebar has a navigation menu with "BRI DRC" selected. The main content area displays a table of dates:

Tanggal Check List V.BETA
23 September 2012 (shift 3)
23 September 2012 (shift 2)
23 September 2012 (shift 1)
22 September 2012 (shift 3)
22 September 2012 (shift 2)
22 September 2012 (shift 1)
21 September 2012 (shift 3)
21 September 2012 (shift 2)



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DAILY CHECKLIST (BETA) - Mozilla Firefox

File Edit View History Bookmarks Tools Help

DAILY CHECKLIST (BETA)

Activity Check List MA-WCS - Operational Disaster Center V.100912 BETA SHIFT 1

Tabanan - Thursday, MA-WCS bertugas: Robert dan

Page 1 2 3 4

No.	Kegiatan Harian	Perform By	Schedule	Real Time	Status	Paraf PIC	Paraf BRI
1	Pengecekan Status Jaringan Komunikasi STM 5	MA-WCS	07:31:00	07:31:00 Clock		✓ X	
2	Pengecekan Status Jaringan Komunikasi STM 5	MA-WCS	08:01:00	08:01:00 Clock		✓ X	
3	FTP Backup Configuration All Network switching device	MA-WCS	09:00:00	09:00:00 Clock		✓ X	
4	Pengecekan Status Jaringan Komunikasi STM 7	MA-WCS	10:01:00	10:01:00 Clock		✓ X	
5	capture All bandwidth WAN compression 2	MA-WCS	10:05:00	10:05:00 Clock		✓ X	
6	Pengecekan Status Jaringan Komunikasi STM1 9	MA-WCS	12:01:00	12:01:00 Clock		✓ X	
7	capture All bandwidth WAN compression 3	MA-WCS	13:05:00	13:05:00 Clock		✓ X	
8	Pengecekan Status Jaringan Komunikasi STM1 10	MA-WCS	14:01:00	14:01:00 Clock		✓ X	
9	Cek LED Indikator B55510 RTOS ( Power, Base, Up, Down ) 3	MA-WCS	14:46:00	14:46:00 Clock		✓ X	
10	(Cek LED Indikator panel depan BCN (Power, Run, Board, Link) Back Panel (Link, Fail in module D10080, Power module 120W, 12VH, fail in module 10/100 BaseT); VCC, 12V1, 12V2 in module SRML, PSU1 and PSU4 ) 3	MA-WCS	14:47:00	14:47:00 Clock		✓ X	

Remarks

[Empty box]



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### 3.4 Capture Traffic (RPO)

*Capture traffic* ini dilakukan jika ada permintaan dari pihak BRI-DRC. Berikut contoh hasil *capture traffic* RPO with Compression.

MONITORING TRAFFIC JARINGAN KOMUNIKASI DC-DRC																											
Tanggal : 18 April 2012																											
MIMIX 60.0.1.4				NettApp		WebEbank & Hitachi				Way4		M10i (STM1)						MIMIX 60.0.1.4				NettApp					
WAN		WAN		WAN		WAN		WAN		WAN		STM1 DC-DRC						Input MIMIX 60.0.1.4				Input NetApp					
Time	Bandwidth	Time	Bandwidth	(WIB)	kbps	(WIB)	kbps	(WIB)	kbps	(WIB)	kbps	(WIB)	kbps	(WIB)	kbps	(WIB)	kbps	60.0.1.4	60.0.1.118	60.0.1.138 + 60.0.1.148	60.0.1.118	60.0.1.138 + 60.0.1.148	60.0.1.118	60.0.1.138 + 60.0.1.148			
WAAS DRC05 60.0.4.7	WAAS DRC04 60.0.8.7	WAAS DRC04 60.0.8.7	WAAS DRC04 60.0.8.7	WAAS DRC04 60.0.8.7	STM1 GTI-DRC	STM1 DC-DRC	TOTAL	STM1 DC-DRC	STM1 GTI-DRC	TOTAL	STM1 DC-DRC	STM1 GTI-DRC	TOTAL	STM1 DC-DRC	STM1 GTI-DRC	TOTAL	STM1 DC-DRC	STM1 GTI-DRC	TOTAL	STM1 DC-DRC	STM1 GTI-DRC	TOTAL	STM1 DC-DRC	STM1 GTI-DRC	TOTAL		
6:00	76530	76.53	6:00	21215	0.21	6:00	249.23	0.25	6:00	19390	19.39	6:00	96120	96.12	254.97	0.25	96375	96.37	6:00	412500	412.50	6:00	0.33	0.00	6:00	1480	1.48
9:00	41800	41.80	9:00	233.37	0.23	9:00	246.02	0.25	9:00	30100	30.10	9:00	73280	73.28	244.17	0.24	73524	73.52	9:00	252190	252.19	9:00	0.142	0.00	9:00	1620	1.62
12:00	0	0.00	12:00	0	0.00	12:00	0	0.00	12:00	0	0.00	12:00	0	0.00	0	0.00	0	0.00	0	0.00	12:00	0	0.00	12:00	0	0.00	
15:00	0	0.00	15:00	0	0.00	15:00	0	0.00	15:00	0	0.00	15:00	0	0.00	0	0.00	0	0.00	0	0.00	15:00	0	0.00	15:00	0	0.00	
18:00	0	0.00	18:00	0	0.00	18:00	0	0.00	18:00	0	0.00	18:00	0	0.00	0	0.00	0	0.00	0	0.00	18:00	0	0.00	18:00	0	0.00	
21:00	0	0.00	21:00	0	0.00	21:00	0	0.00	21:00	0	0.00	21:00	0	0.00	0	0.00	0	0.00	0	0.00	21:00	0	0.00	21:00	0	0.00	
6:54	61150	61.15	6:54	256.56	0.26	6:54	242.04	0.24	6:54	14700	14.70	6:54	73840	73.84	248.66	0.25	74089	74.09	6:54	142360	142.36	6:54	0.327	0.00	6:54	1650	1.65

MIMIX Current	Time	Total WAN	Total STM1
	6:00	96.38	96.37
	9:00	72.38	73.52
	12:00	0.00	0.00
	15:00	0.00	0.00
	18:00	0.00	0.00
	21:00	0.00	0.00
	6:54	76.35	74.09

MONITORING TRAFFIC JARINGAN KOMUNIKASI DC-DRC																									
Tanggal : 18 April 2012																									
MIMIX 60.0.1.4				NetApp		WebEbank & Hitachi				Way4		STM1						B/W(Kbps)							
WAAS DRC01 60.0.4.7		WAAS DRC04 60.0.8.7		WAAS DRC04 60.0.8.7		WAAS DRC04 60.0.8.7				WAAS DRC04 60.0.8.7		Bandwidth						Bandwidth							
Time	Bandwidth			Bandwidth			Bandwidth			Bandwidth			Bandwidth			Bandwidth			Bandwidth			Bandwidth			
(WIB)	from AS400	LAN 1 PCI 1	WAN 1 PCI 1	from SW	from SW	from SW	from SW	from SW	from SW	from SW	from SW	from SW	from SW	from SW	from SW	from SW	from SW	from Bystack	LAN 0 PCI 1	WAN 0 PCI 1	WAN 0 PCI 1	Compres (x)	M10i (STM1 DRC-DC)	M10i (STM1 DRC-DC)	
	Ex3200	Ex3200	Ex3200	HPI	HPI	HPI	HPI	HPI	HPI	HPI	HPI	HPI	HPI	HPI	HPI	HPI	HPI	Ex3200	Ex3200	Ex3200	Port 24	Compres (x)	STM1 DC-DRC	STM1 GTI-DRC	
	Port 00	Port 01	Port 02	(Kbps)	(Kbps)	(Kbps)	(Kbps)	(Kbps)	(Kbps)	(Kbps)	(Kbps)	(Kbps)	(Kbps)	(Kbps)	(Kbps)	(Kbps)	(Kbps)	Port 17	Port 18	Port 19	(Kbps)	Port 23	(Mbps)	Total	
0:00	184800	185070	45650	3.62	0.328	832.35	832.24	82.31	11.33	250.21	244.45	1.02	134070	132550	80970	1.46	138880	379.15	139058.15						
1:00	303480	304100	53860	5.65	0.33	1340	1340	184.73	8.13	248.28	248.33	0.98	52590	52610	12400	4.24	91700	241.6	91941.6						
2:00	5450	5460	1550	3.52	0.33	779.98	779.73	70.21	11.11	260680	34220	7.78	405680	41130	10180	4.04	62020	228.08	62248.08						
3:00	264490	265910	37250	7.14	0.322	1970	1960	255.26	7.68	358220	51250	6.99	12780	12670	3160	4.01	91470	236.9	91706.9						
4:00	496320	495570	74650	6.64	0.329	1480	1480	198.25	7.47	181830	28850	6.65	32610	32470	8210	3.95	111320	241.4	111561.4						
5:00	468730	468980	81400	5.63	0.324	1570	1570	220.31	7.13	182410	29380	6.21	144480	14770	3800	3.89	113470	238.6	113709.6						
6:00	412500	413740	76530	5.41	0.33	1480	1480	212.15	6.98	249.98	249.23	1.00	80120	80150	19390	4.13	96120	254.97	96374.97						
7:00	155130	155080	67220	2.31	0.328	1480	1480	213.98	6.92	243.22	239.74	1.01	38340	38920	11500	3.47	78880	241.97	79121.97						
8:00	114720	115080	11970	9.61	0.328	1830	1830	263.36	6.95	244.43	244.06	1.00	27810	27880	9150	3.05	25240	243.08	25483.08						
9:00	252190	248200	41800	5.94	0.142	1620	1620	233.37	6.94	246.33	246.02	1.00	109770	108010	30100	3.59	73280	244.17	73524.17						
10:00	251680	258750	52250	4.95	0.347	2170	2160	415.23	5.20	244.25	250.27	0.98	71540	72280	19430	3.72	73760	243.51	74003.51						
11:00																									
12:00																									
13:00																									
14:00																									
15:00																									
16:00																									
17:00																									
18:00																									
19:00																									
20:00																									
21:00																									
22:00																									
23:00																									
6:54	142360	61150	0.327	1650	1650	256.56	243.24	242.04	53320	52930	14700	73840	248.66	74088.66											

MIMIX 60.0.1.4				NetApp				WebEbank & Hitachi				Way4				M10i STM1 (Mbps)			
WAAS DRC01 60.0.4																			

Berikut adalah langkah-langkah untuk men-capture traffic RPO.

No.	Job	Time	Description of Action
1	Template RPO	Sesuai dengan permintaan pihak BRI-DRC	<ul style="list-style-type: none"> <li>Buka file RPO with Compression Template.xls dari D:\MASTER\TEMPLATE\RPO with Traffic Compression atau buka RPO hari sebelumnya di D:\Data Terupdate WCS\#OPERASIONAL\Tahun\Bulan\Tanggal</li> <li>Save As dengan filename (GTI-DRC)RPO with traffic Compression.xls pada hari akan dijalankannya RPO</li> </ul>
	Capture Network Traffic Monitoring	Setiap jam sekali	<ul style="list-style-type: none"> <li>Buka File RPO yang telah disave</li> <li>Buka sheet Capture_Compression dan isi sesuai Capture Network traffic Monitoring yang dibutuhkan</li> <li>Kolom Compress merupakan hasil pembagian dari kolom LAN dibagi kolom WAN</li> </ul>
2	Traffic Mimix 60.0.8.5		<ul style="list-style-type: none"> <li>Buka Cacti 131.100.55.153/cacti pada Website Mozilla atau IE ,klik Graph\Reporting\DRC\Replikasi DRC, untuk melihat traffic Mimix (IP 60.0.8.5) pada jam sesuai dengan yang akan dimasukan</li> <li>Lihat EX32-MIMIX-DRC - Traffic - to_MIMIX_60.0.8.5 untuk traffic 'Current Outbound'</li> <li>Catat Traffic 'Current Outbound' untuk kolom from AS400 MIMIX Ex3200 Port 34 sesuai dengan jamnya</li> <li>Save</li> </ul>
3	Traffic LAN1 PCI 1 WAAS-DRC05 60.0.4.6		<ul style="list-style-type: none"> <li>Buka Cacti 131.100.55.153/cacti pada Website Mozilla atau IE , klik Graph\Reporting\DRC\Replikasi DRC, , untuk melihat traffic LAN CISCO WAAS 5 Disk (IP 60.0.4.6) pada jam sesuai dengan yang akan dimasukan</li> <li>Lihat EX32-MIMIX-DRC - Traffic Mimix GTI to DRC - LAN1_WAAS_5 untuk traffic 'Current Inbound'</li> <li>Catat Traffic 'Current Inbound' untuk kolom LAN 1 PCI1 EX3200 Port 12 pada kolom yang sesuai dengan jamnya</li> <li>Save</li> </ul>
4	Traffic WAN 1 PCI 1WAAS-5 60.0.4.6		<ul style="list-style-type: none"> <li>Buka Cacti 131.100.55.153/cacti pada Website Mozilla atau IE , klik Graph\Reporting\DRC\Replikasi DRC, untuk melihat traffic WAN CISCO WAAS 5 Disk (IP 60.0.4.6) pada jam sesuai dengan yang akan dimasukan</li> <li>Lihat EX32-MIMIX-DRC - Traffic MIMIX GTI to DRC- to_WAN1_WAAS_5 untuk traffic 'Current Outbound'</li> <li>Catat Trafik 'Current Outbound' untuk kolom WAN 1 PCI 1 EX3200 Port 13 pada kolom yang sesuai dengan jamnya</li> <li>Save</li> </ul>

5	<b>Traffic Mimix 60.0.1.4</b>	Ketika replikasi MIMIX yang digunakan Sudirman - DRC	<ul style="list-style-type: none"> <li>Buka Cacti 131.100.55.153/cacti pada Website Mozilla atau IE ,klik Graph\Reporting\DRC\Replikasi DRC, untuk melihat traffic Mimix (IP 60.0.1.4) pada jam sesuai dengan yang akan dimasukan</li> <li>Lihat EX32-MIMIX-DRC - Traffic - to_MIMIX_60.0.1.4 ge-0/0/2 untuk traffic 'Current Outbound'</li> <li>Catat Traffic 'Current Outbound' untuk kolom 'from AS400 MIMIX Ex3200 Port 02' sesuai dengan jamnya</li> <li>Save</li> </ul>
6	<b>Traffic LAN 1 PCI 1 WAAS DRC 01</b>	Ketika replikasi MIMIX yang digunakan Sudirman - DRC	<ul style="list-style-type: none"> <li>Buka Cacti 131.100.55.153/cacti pada Website Mozilla atau IE ,klik Graph\Reporting\DRC\Replikasi DRC, untuk melihat traffic LAN CISCO WAAS 1 Disk (IP 60.0.4.7) pada jam sesuai dengan yang akan dimasukan</li> <li>Lihat EX32-MIMIX-DRC - Traffic - to_LAN1_WAAS_1 ge-0/0/0 untuk traffic 'Current Inbound'</li> <li>Catat Traffic 'Current Outbound' untuk kolom 'LAN 1 PCI 1 Ex3200 Port 00' sesuai dengan jamnya</li> <li>Save</li> </ul>
7	<b>Traffic WAN 1 PCI 1 WAAS DRC 01</b>	Ketika replikasi MIMIX yang digunakan Sudirman - DRC	<ul style="list-style-type: none"> <li>Buka Cacti 131.100.55.153/cacti pada Website Mozilla atau IE ,klik Graph\Reporting\DRC\Replikasi DRC, untuk melihat traffic WAN CISCO WAAS 1 Disk (IP 60.0.4.7)</li> <li>Lihat EX32-MIMIX-DRC - Traffic - to_WAN1_WAAS_1 ge-0/0/1 untuk traffic 'Current Outbound'</li> <li>Catat Traffic 'Current Outbound' untuk kolom 'WAN 1PCI1 Ex3200 Port 01' sesuai dengan jamnya</li> <li>Save</li> </ul>
8	<b>Traffic NetApp EX 3200 Port 30</b>		<ul style="list-style-type: none"> <li>Buka Cacti 131.100.55.153/cacti pada Website Mozilla atau IE ,klik Graph\Reporting\DRC\Replikasi DRC, untuk melihat traffic NetApp pada jam sesuai dengan yang akan dimasukan</li> <li>Lihat 'EX32-MIMIX-DRC – Traffic – to_NetApp_ge-0/0/30' untuk traffic 'Current Outbound'</li> <li>Catat Traffic 'Current Outbound' untuk kolom NetApp EX3200 port 30 pada kolom yang sesuai dengan jamnya</li> <li>Save</li> </ul>
9	<b>Traffic NetApp LAN 1 PCI 2 EX3200 Port 18</b>		<ul style="list-style-type: none"> <li>Buka Cacti 131.100.55.153/cacti pada Website Mozilla atau IE , klik Graph\Reporting\DRC\Replikasi DRC, untuk melihat traffic NetApp pada jam sesuai dengan yang akan dimasukan</li> <li>Lihat 'EX32-MIMIX-DRC - Traffic NetApp - to_LAN1_WAAS_4' untuk traffic 'Current Inbound'</li> <li>Catat Traffic 'Current Inbound' untuk kolom 'LAN 1 PCI 2 Ex3200 Port 18' pada kolom yang sesuai dengan jamnya</li> <li>Save</li> </ul>

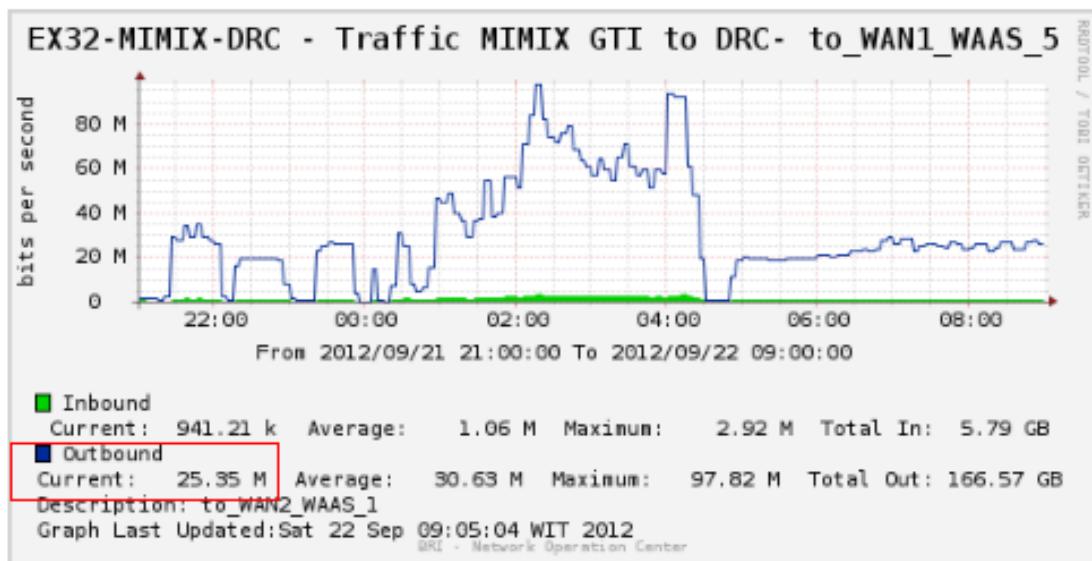
		<ul style="list-style-type: none"> <li>• Buka Cacti 131.100.55.153/cacti pada Website Mozilla atau IE , klik Graph\Reporting\DRC\Replikasi DRC, untuk melihat traffic NetApp pada jam sesuai dengan yang akan dimasukan</li> </ul>
10	Traffic NetApp WAN 1 PCI 2 EX3200 Port 19	<ul style="list-style-type: none"> <li>• Lihat '<u>EX32-MIMIX-DRC - Traffic WAN NetApp-to_WAN1_WAAS_4</u>' untuk traffic 'Current Outbound'</li> <li>• Catat Traffic 'Current Outbound' untuk kolom 'WAN 1 PCI 2 Ex3200 Port 19' pada kolom yang sesuai dengan jamnya</li> </ul>
		<ul style="list-style-type: none"> <li>• Save</li> </ul>
11	Traffic WebEbank Catalyst 2960 port Gi0/1	<ul style="list-style-type: none"> <li>• Buka Cacti 131.100.55.153/cacti pada Website Mozilla atau IE , klik Graph\Reporting\DRC\Replikasi DRC, untuk melihat traffic Web Ebank pada jam sesuai dengan yang akan dimasukan</li> <li>• Lihat '<u>SW REP-WebEbank-DRC - Traffic - Gi0/1</u>' untuk traffic 'Current Inbound'</li> <li>• Catat Traffic 'Current Inbound' untuk kolom 'LAN 1 PCI 1 Catalyst 2960 port Gi0/1' pada kolom yang sesuai dengan jamnya</li> </ul>
		<ul style="list-style-type: none"> <li>• Save</li> </ul>
12	Traffic WebEbank EX 3200 port 17	<ul style="list-style-type: none"> <li>• Buka Cacti 131.100.55.153/cacti pada Website Mozilla atau IE , klik Graph\Reporting\DRC\Replikasi DRC, untuk melihat traffic Web Ebank pada jam sesuai dengan yang akan dimasukan</li> <li>• Lihat '<u>EX32-MIMIX-DRC - Traffic WebEbank dan Hitachi- to_WAN1_WAAS_4</u>' untuk traffic 'Current Outbound'</li> </ul>
		<ul style="list-style-type: none"> <li>• Catat Traffic 'Current Outbound' untuk kolom 'WAN 1 PCI 1 Ex3200 Port 17' pada kolom yang sesuai dengan jamnya</li> </ul>
		<ul style="list-style-type: none"> <li>• Save</li> </ul>
13	Traffic Way4 EX 3200 Port 23	<ul style="list-style-type: none"> <li>• Buka Cacti 131.100.55.153/cacti pada Website Mozilla atau IE, klik Graph\Reporting\DRC\Replikasi DRC untuk melihat traffic Way4 pada jam sesuai dengan yang akan dimasukan</li> <li>• Lihat '<u>EX32-MIMIX-DRC - Traffic - ge-0/0/23</u>' untuk traffic 'Current Outbound'</li> </ul>
		<ul style="list-style-type: none"> <li>• Catat Traffic 'Current Outbound' untuk kolom <b>from BS 5530 Way4 Ex3200 Port 23</b> pada kolom yang sesuai dengan jamnya</li> </ul>
		<ul style="list-style-type: none"> <li>• Save</li> </ul>
14	Traffic Way4 EX 3200 port 24	<ul style="list-style-type: none"> <li>• Buka Cacti 131.100.55.153/cacti pada Website Mozilla atau IE, klik Graph\Reporting\DRC\Replikasi DRC untuk melihat traffic Way4 pada jam sesuai dengan yang akan dimasukan</li> <li>• Lihat '<u>EX32-MIMIX-DRC - Traffic LAN WAY4 - to_LAN0_WAAS_4</u>' untuk traffic 'Current Inbound'</li> </ul>

			<ul style="list-style-type: none"> <li>Catat Traffic 'Current Inbound' untuk kolom 'LAN 0 PCI 1 Ex3200 Port 24' pada kolom yang sesuai dengan jamnya</li> <li>Save</li> </ul>
15	Traffic Way4 EX 3200 port 25		<ul style="list-style-type: none"> <li>Buka Cacti 131.100.55.153/cacti pada Website Mozilla atau IE, klik Graph\Reporting\DRC\Replikasi DRC untuk melihat traffic Way4 pada jam sesuai dengan yang akan dimasukan</li> <li>Lihat 'EX32-MIMIX-DRC - Traffic WAN WAY4 - to_WAN0_WAAS_4' untuk traffic 'Current Outbound'</li> <li>Catat Traffic 'Current Outbound' untuk kolom 'WAN 0 PCI 1 Ex3200 Port 25' pada kolom yang sesuai dengan jamnya</li> <li>Save</li> </ul>
16	Traffic STM1 DRC to SUD		<ul style="list-style-type: none"> <li>Buka Cacti 131.100.55.153/cacti pada Website Mozilla atau IE , klik Graph\Reporting\DRC\Replikasi untuk melihat traffic STM 1 pada jam sesuai dengan yang akan dimasukan</li> <li>Lihat 'Juniper M10i DRC - Traffic STM-1 DRC to SUD Telkom- so-1/2/0' untuk traffic 'Current Inbound'</li> <li>Catat Traffic 'Current Inbound' untuk kolom 'M10i DRC (STM1 DC-DRC)' pada kolom yang sesuai dengan jamnya</li> <li>Save</li> </ul>
17	Traffic STM1 DRC to GTI		<ul style="list-style-type: none"> <li>Buka Cacti 131.100.55.153/cacti pada Website Mozilla atau IE , klik Graph\Reporting\DRC\Replikasi untuk melihat traffic STM 1 pada jam sesuai dengan yang akan dimasukan</li> <li>Lihat 'Juniper M10i DRC - Traffic STM-1 DRC to GTI Icon+ - so-1/2/1' untuk traffic 'Current Inbound'</li> <li>Catat Traffic 'Current Inbound' untuk kolom 'M10i DRC (STM1 GTI-DRC)' pada kolom yang sesuai dengan jamnya</li> <li>Save</li> </ul>

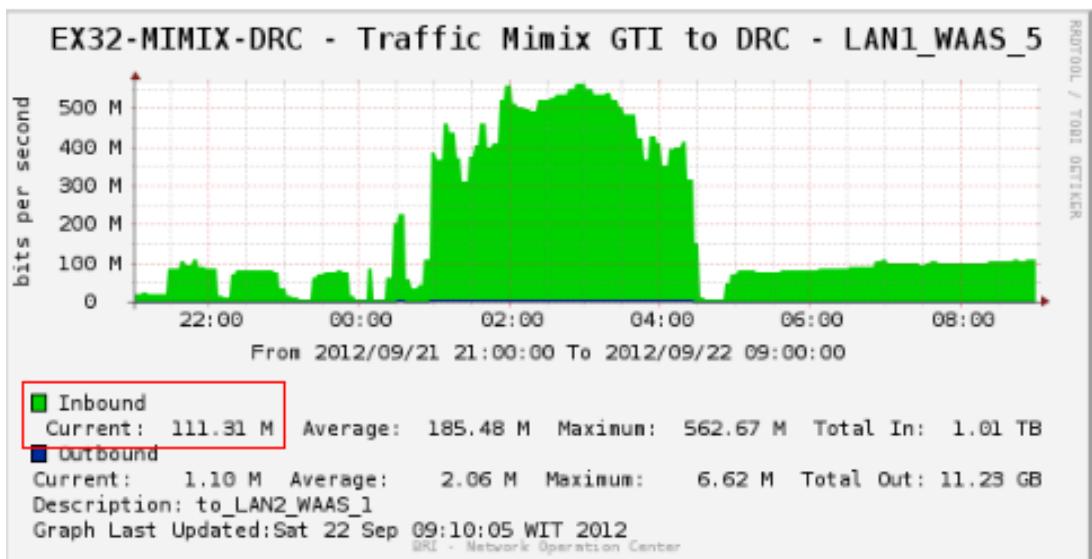
### 3.5 Kompresi Replikasi

Berikut adalah langkah- langkah untuk menghitung kompresi replikasi untuk mengetahui performa WAAS :

Lihat traffic Outbound dari interface yang mengarah ke interface WAN WAAS, ini adalah traffic hasil kompresi WAAS.



Untuk mengetahui perbandingan kompresi , lihat traffic dari interface yang mengarah ke interface LAN WAAS, lalu dibagi dengan traffic di interface yang mengarah ke interface WAN WAAS.





DIS/PAN-04-01-00 : 12:01:00

Dengan membandingkan “traffic LAN (inbound) : traffic WAN (Outbound)” maka akan didapat hasil kompresi untuk replikasi tersebut.

Contoh:

Traffic LAN (Inbound)	= 111.31 M
Traffic WAN (Outbound)	= 25.35 M

Maka perbandingannya adalah :

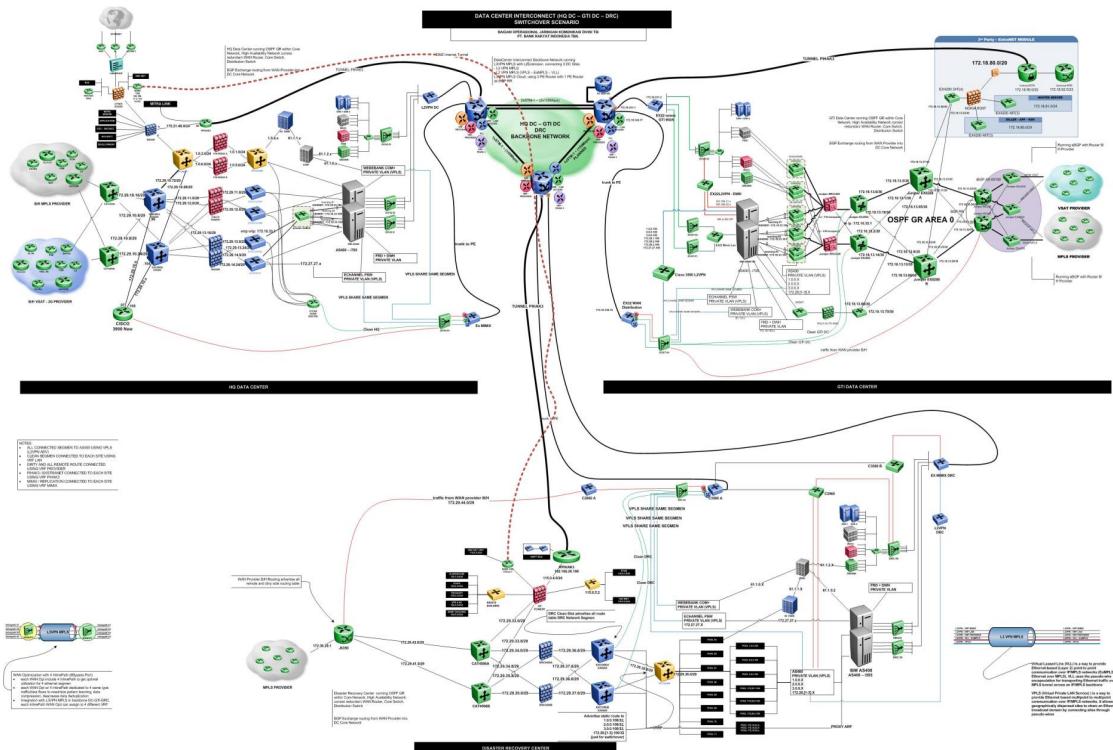
$$111.31 \text{ M} : 25.35 \text{ M} = 4.39x$$

Dari perbandingan diatas dapat disimpulkan pada jam 09.00 untuk replikasi MIMIX WAAS melakukan kompresi sebanyak 4.39x

### 3.6 Disaster Recovery

Proses *disaster recovery* PT. BRI diimplementasikan pada AS/400-DC atau AS/400-GTI. Proses disaster recovery menggunakan teknologi L2VPN (Layer 2 Virtual Private Networks). Langkah prosesnya yaitu Handler interface AS/400-DC atau AS/400-GTI dengan ip address 172.27.27.100, 1.0.0.100, 2.0.0.100, 3.0.0.100, 172.28.1.100, 172.28.2.100, 172.28.3.100, 61.1.0.2, 192.168.21.9, 192.168.22.9, 192.168.5.9, 192.168.6.9 untuk dimatikan. Kemudian disable 8 port ditambah 2 port DWH Switch L2VPN DC atau GTI ke interface AS/400 DC atau GTI. Langkah selanjutnya yaitu Migrasi ip 172.18.33.100, 172.18.34.100, 172.18.35.100 dengan mendisable 3 interface VLAN unit 33, 34, 35 AS/400 DC atau GTI. Kemudian Eksekusi script migrasi switch-over L2VPN di M10i DC atau GTI dan eksekusi script migrasi switch-over L2VPN di M10i DRC.

Berikut adalah gambar jika terjadi proses Disaster.



### 3.7 Preventive Maintenance

Pembuatan laporan PM (Preventive Maintenance) ini bertujuan untuk membantu proses pengecekan fisik perangkat secara berkala setiap bulan dimana PM tersebut berisikan tipe perangkat, serial number, OS Version, Status Port, Routing Table, serta SNMP Configuration. Berikut contoh dari PM tersebut :

Check List Perangkat Core Switch			
Cisco Catalyst 4506 - B			
<b>I. Project Information</b>			
<b>Project Information</b>			
Project Name	Monitoring Perangkat BRI-DRC	Location	Rack 27, U#1
Customer	PT. Bank Rakyat Indonesia	Type	Core Switch
Date	08/27/2012	IP Management	172.19.143.2/24
Address	Tabanan, Bali	Temperature	25 degrees C
Phone	0361 - 819797	Remark	
Contact Person	Dhany Puswantoro	HP	08155791338
<b>II. Kondisi HW Sebelumnya</b>			
<b>Device Information</b>			
Type of Devices	Catalyst 4506 E	Location	Rack 27, U#1
Merk	Cisco	Type	Core Switch
Serial Number	FOX1329GSA3	IP Management	172.19.143.2/24
Hostname	BRI-DRC-CAT45-B	Temperature	25 degrees C
IOS Version RE 0	Cisco IOS Software Version 12.2(50)SG2	Remark	
Power Supply	<input checked="" type="checkbox"/> 110VAC <input checked="" type="checkbox"/> 220VAC <input checked="" type="checkbox"/> Single <input checked="" type="checkbox"/> Redundant		
<b>III. Hasil Check Perangkat</b>			
<b>A. Hardware Check</b>			
Type of Devices	Catalyst 4506 E	Location	Rack 27, U#1
Merk	Cisco	Type	Core Switch
Serial Number	FOX1329GSA3	IP Management	172.19.143.2/24
Hostname	BRI-DRC-CAT45-B	Temperature	27 degrees C
Firmware Version RE 0	Cisco IOS Software Version 12.2(50)SG2	Remark	
Firmware Version RE 1	Cisco IOS Software Version 12.2(50)SG2	Cond. PSU+Fan	OK
Power Supply	<input checked="" type="checkbox"/> 110VAC <input checked="" type="checkbox"/> 220VAC <input checked="" type="checkbox"/> Single <input checked="" type="checkbox"/> Redundant	<input checked="" type="checkbox"/> Pwr Supply Mati <input checked="" type="checkbox"/> Pwr Sply Ok, Fan Problem	

**B. Port & VLAN Configuration Status**

No	Port Number	VLAN		IP Address	Status	Destination
		ID	Name			
1	Gi2/1	1	default		Down	
2	Gi2/2	1	default		Down	
3	Gi2/3	1	default		Down	
4	Gi2/4	1	default		Down	
5	Gi2/5	1	default		Down	
6	Gi2/6	1	default		Down	
7	Gi2/7	1	default		Down	
8	Gi2/8	1	default		Down	
9	Gi2/9	1	default		Down	
10	Gi2/10	1	default		Down	
11	Gi2/11	1	default		Down	
12	Gi2/12	1	default		Down	
13	Gi2/13	1	default		Down	
14	Gi2/14	1	default		Down	
15	Gi2/15	1	default		Down	
16	Gi2/16	1	default		Down	
17	Gi2/17	1	default		Down	
18	Gi2/18	1	default		Down	
19	Gi2/19	1	default		Down	
20	Gi2/20	1	default		Down	
21	Gi2/21	1	default		Down	
22	Gi2/22	1	default		Down	
23	Gi2/23	1	default		Down	

No	Port Number	VLAN		IP Address	Status	Destination
		ID	Name			
24	Gi2/24	1	default		Down	
25	Gi2/25	1	default		Down	
26	Gi2/26	1	default		Down	
27	Gi2/27	1	default		Down	
28	Gi2/28	1	default		Down	
29	Gi2/29	1	default		Down	
30	Gi2/30	1	default		Down	
31	Gi2/31	1	default		Down	
32	Gi2/32	1	default		Down	
33	Gi2/33	1	default		Down	
34	Gi2/34	1	default		Down	
35	Gi2/35	1	default		Down	
36	Gi2/36	1	default		Down	
37	Gi2/37	1	default		Down	
38	Gi2/38	1	default		Down	
39	Gi2/39	1	default		Down	
40	Gi2/40	1	default		Down	
41	Gi2/41	1	default		Down	
42	Gi2/42	1	default		Down	
43	Gi2/43	Trunk			Up	to Catalyst 3560 Provider
44	Gi2/44			172.29.44.4/29	Up	Connection_To_C2960_A_Port
45	Gi2/45			172.29.41.2/29	Up	J6350 port 0/1
46	Gi2/46			172.29.33.9/29	Up	CheckPoint port 8
47	Gi2/47			172.29.35.1/29	Up	SRX B port 1
48	Gi2/48			172.29.35.9/29	Up	SRX A port 1
49						
50	FastEthernet1			172.19.149.2/24	Up	D-Link Management Port 6

C. Tagging			
Vlan Tagging			
No	Tag Name	Port Tag Member	Vlan Members
1	""to Catalyst 3560 Provider""	GigabitEthernet2/43	vlan 5, 10, 20, 30, 40, 50, 60, 70
2			
D. Routing Table			
No	Destination	Next-Hop	
1			
2			
3			Dilampirkan
4			
5			
E. NTP Configuration			
No	NTP Server	Time Zone	
1	131.100.55.160	GMT+7	
2			
F. Syslog Configuration			
No	Syslog Server	Description	
1			No Syslog
2			
G. SNMP Configuration			
No	SNMP Server	Community Name	Permission
1	131.100.55.153/32	Community Public	Authorization read-only
2	131.100.55.57/32	Community Public	Authorization read-only
2	131.100.55.58/32	Community Public	Authorization read-only

Page 4

## BAB 4. COMMAND LINE PERANGKAT NETWORK

Berikut Command line yang umum digunakan pada proyek Pemasangan Perangkat Network Switching Bank BRI, sehingga jika ada *Request* dari pihak BRI atau terdapat permasalahan, operator WCS yang sedang bertugas dapat segera menangani masalah tersebut.

### 4.1 Nortel Passport 8600

#### ♦ Membuat Static Route

```
PP8600-DRC:6#config  
PP8600-DRC:6/config# ip  
PP8600-DRC:6/config/ip# static-route  
PP8600-DRC:6/config/ip/ static-route# create 123.123.123.0/24  
next-hop 26.126.126.1 cost 1
```

#### ♦ Delete Static Route

```
PP8600-DRC:6#config  
PP8600-DRC:6/config# ip  
PP8600-DRC:6/config/ip# static-route  
PP8600-DRC:6/config/ip/ static-route# delete 123.123.123.0/24 next-  
hop 126.126.126.1
```

#### ♦ Membuat Tagging

\*Siapkan port yang akan di Tag , dan masukan port tagging ke member Vlan

```
PP8600-DRC:6#config  
PP8600-DRC:6/config#ethernet  
PP8600-DRC:6/config#ethernet# 2/48  
PP8600-DRC:6/config/ethernet/2/48# perform-tagging enable  
PP8600-DRC:6/config/ethernet/2/48# info
```

♦ Membuat Vlan

```
PP8600-DRC:6# config  
PP8600-DRC:6/config# vlan 20 create  
PP8600-DRC:6/config/vlan/20/create# byport 1 name praktek  
PP8600-DRC:6 /config/vlan/20/create# info
```

♦ Mendelete Vlan

```
PP8600-DRC:6# config  
PP8600-DRC:6/config# vlan 20  
PP8600-DRC:6/config/vlan/20# delete
```

♦ Membuat Member Vlan

```
PP8600-DRC:6# config  
PP8600-DRC:6 /config# vlan 20 ports  
PP8600-DRC:6 /config/vlan/20/ports# add 1/15-1/20  
PP8600-DRC:6 /config/vlan/20/ports# info
```

♦ Mendelete Member Vlan

```
PP8600-DRC:6# config  
PP8600-DRC:6 /config# vlan 20 ports  
PP8600-DRC:6 /config/vlan/20/ports# remove 1/15-1/20  
PP8600-DRC:6 /config/vlan/20/ports# info
```

♦ Membuat IP Vlan

```
PP8600-DRC:6# config  
PP8600-DRC:6 /config/vlan/10# ip  
PP8600-DRC:6 /config/vlan/10/ip# create 180.180.180.1/24  
PP8600-DRC:6 /config/vlan/10/ip# info
```

♦ Mendelete IP Vlan

```
PP8600-DRC:6# config  
PP8600-DRC:6 /config/vlan/10# ip  
PP8600-DRC:6 /config/vlan/10/ip# delete 180.180.180.1/24  
PP8600-DRC:6 /config/vlan/10/ip# info
```

- ◆ Cara mengaktifkan L3 pada PP8600

```
PP8600-DRC:6# config  
PP8600-DRC:6 /config/ip forwarding enable
```

## 4.2 Juniper EX8200

- ◆ Prosedur Membuat VLAN

```
ipnet@EX82DRC @% cli  
ipnet@EX82DRC > configure  
ipnet@EX82DRC # set vlans vlan_server vlan-id 100  
ipnet@EX82DRC # set vlans vlan_coba vlan-id 101  
ipnet@EX82DRC # commit synchronize
```

- ◆ Prosedur Membuat Port Member VLAN

```
ipnet@EX82DRC @% cli  
ipnet@EX82DRC > configure  
ipnet@EX82DRC # set interfaces fe-0/0/7 unit 0 family ethernet-  
switching vlan member vlan_server  
ipnet@EX82DRC # commit synchronize
```

- ◆ Prosedur Membuat IP VLAN

Command :

```
ipnet@EX82DRC # set interfaces vlan unit 100 family inet address  
10.5.5.1/24  
ipnet@EX82DRC # commit synchronize  
ipnet@EX82DRC # set vlans vlan_server vlan-id 100 l3-interface  
vlan.100  
ipnet@EX82DRC # commit synchronize
```

- ◆ Prosedur Delete VLAN

Command :

```
ipnet@EX82DRC # delete vlans vlan_server vlan-id 100
ipnet@EX82DRC # delete vlans vlan_coba vlan-id 101
ipnet@EX82DRC # commit synchronize
```

♦ Prosedur Disable Port Ethernet

Command :

```
ipnet@EX82DRC # set interfaces ge-0/0/28 disable
ipnet@EX82DRC # set interfaces ge-0/0/29 disable
ipnet@EX82DRC # commit synchronize
```

♦ Prosedur Enable Port Ethernet

Command :

```
ipnet@EX82DRC # set interfaces ge-0/0/28 enable
ipnet@EX82DRC # set interfaces ge-0/0/29 enable
ipnet@EX82DRC # commit synchronize
```

♦ Prosedur Membuat VRRP

Command :

**Untuk configurasi EX82 Primary :**

```
ipnet@EX82DRC # set interfaces vlan unit 88 family inet address
10.8.8.1/24 vrrp-group 10 virtual-address 10.8.8.100
ipnet@EX82DRC # set interfaces vlan unit 88 family inet address
10.8.8.1/24 vrrp-group 10 priority 150
ipnet@EX82DRC # set interfaces vlan unit 88 family inet address
10.8.8.1/24 vrrp-group 10 advertise-interval 5
ipnet@EX82DRC # set interfaces vlan unit 88 family inet address
10.8.8.1/24 vrrp-group 10 preempt
ipnet@EX82DRC # set interfaces vlan unit 88 family inet address
10.8.8.1/24 vrrp-group 10 accept-data
ipnet@EX82DRC # set interfaces vlan unit 88 family inet address
10.8.8.1/24 vrrp-group 10 track interface ge-0/0/47 priority-cost 70
ipnet@EX82DRC # commit synchronize
ipnet@EX82DRC # run ping 10.8.8.100
```

**Untuk configurasi EX82 Secondary:**

```
ipnet@EX82DRC # set interfaces vlan unit 88 family inet address  
10.8.8.2/24 vrrp-group 10 virtual-address 10.8.8.100  
ipnet@EX82DRC # set interfaces vlan unit 88 family inet address  
10.8.8.2/24 vrrp-group 10 priority 100  
ipnet@EX82DRC # set interfaces vlan unit 88 family inet address  
10.8.8.2/24 vrrp-group 10 advertise-interval 5  
ipnet@EX82DRC # set interfaces vlan unit 88 family inet address  
10.8.8.2/24 vrrp-group 10 accept-data  
ipnet@EX82DRC # commit synchronize  
ipnet@EX82DRC # run ping 10.8.8.100
```

♦ Prosedur Membuat Static Route

**Untuk Configurasi EX82 Primary :**

Command:

```
ipnet@EX82DRC # set routing-options static route 70.0.0.0/24 next-  
hop 10.8.8.2 metric 1  
ipnet@EX82DRC # commit synchronize
```

**Untuk configurasi EX82 Secondary:**

```
ipnet@EX82DRC # set routing-options static route 70.0.0.0/24 next-  
hop 10.8.8.2 metric 10  
ipnet@EX82DRC # commit synchronize
```

♦ Advertise New Segment to OSPF Cloude

Command :

```
ipnet@EX82DRC # set protocols ospf area 0.0.0.1 interface vlan.20  
passive  
ipnet@EX82DRC # commit synchronize
```

### 4.3 Nortel Baystack 5510

♦ Prosedur Membuat Vlan

Command :

```
5510-48T>enable  
5510-48T#configure terminal  
5510-48T(config)# vlan create 60 name TESTING type port
```

♦ Prosedur Membuat member Vlan

Command :

```
5510-48T>enable  
5510-48T#configure terminal  
*note ( Remove port member Vlan )  
5510-48T(config)#vlan members remove (Vlan-ID) (Port member)  
*note ( Add port member Vlan yang baru )  
5510-48T(config)#vlan members add (Vlan-ID) (Port member)
```

Contoh :

```
5510-48T(config)#vlan members remove 1 34-36  
5510-48T(config)#vlan members add 60 34-36
```

♦ Prosedur Mendelete Vlan

Command :

```
5510-48T>enable  
5510-48T#configure terminal  
5510-48T(config)#no vlan ( Vlan-ID )  
5510-48T(config)#no vlan 60
```

♦ Prosedur Memberikan IP Vlan

Command :

```
5510-48T>enable  
5510-48T#configure terminal  
5510-48T(config)#interface vlan ( Vlan-ID )  
5510-48T(config)#interface vlan 60  
5510-48T(config-if)#  
5510-48T(config-if)#ip address (IP address) (Subnet Mask)  
5510-48T(config-if)#ip address 60.60.60.1 255.255.255.0
```

♦ Prosedur Mendelete IP Vlan

Command :

5510-48T>enable

5510-48T#configure terminal

5510-48T(config)#interface vlan ( Vlan-ID )

5510-48T(config)#interface vlan 60

5510-48T(config-if)#

5510-48T(config-if)#no ip address (IP address) (Subnet Mask)

5510-48T(config-if)#no ip address 60.60.60.1 255.255.255.0

♦ Prosedur Mengaktifkan L3

Command :

5510-48T>enable

5510-48T#configure terminal

5510-48T(config)#ip routing

♦ Prosedur Membuat Static Route

Command :

5510-48T>enable

5510-48T#configure terminal

5510-48T(config)#

5510-48T(config)#ip route (IP Destination) (Subnet Mask) (Next-Hop) (Cost)

\*note ( nilai Cost makin kecil maka lebih di prioritaskan sebagai primary )

5510-48T(config)#ip route 20.20.20.0 255.255.255.0 198.168.10.2 1

♦ Prosedur Mendelete Static Route

Command :

5510-48T>enable

```
5510-48T#configure terminal  
5510-48T(config)#  
5510-48T(config)#no ip route (IP Destination) (Subnet Mask) (Next-  
Hop) (Cost)  
5510-48T(config)#no ip route 20.20.20.0 255.255.255.0  
198.168.10.2 1
```

#### 4.4 Juniper EX3200

- ◆ Prosedur Membuat VLAN

Command :

```
ipnet@EX32-MIMIX@% cli  
ipnet@EX32-MIMIX> configure  
ipnet@EX32-MIMIX # set vlans vlan_server vlan-id 100  
ipnet@EX32-MIMIX # set vlans vlan_coba vlan-id 101  
ipnet@EX32-MIMIX # commit
```

- ◆ Prosedur Membuat Port Member VLAN

Command :

```
ipnet@EX32-MIMIX@% cli  
ipnet@EX32-MIMIX> configure  
ipnet@EX32-MIMIX # set interfaces fe-0/0/7 unit 0 family ethernet-  
switching vlan member vlan_server  
ipnet@EX32-MIMIX # commit
```

- ◆ Prosedur Membuat IP VLAN

Command :

```
ipnet@EX32-MIMIX # set interfaces vlan unit 100 family inet  
address 10.5.5.1/24  
ipnet@EX32-MIMIX # commit
```

- ◆ Prosedur Mengaktifkan L3

Command :

```
ipnet@EX32-MIMIX # set vlans vlan_server vlan-id 100 l3-
interface vlan.100
```

- ♦ Prosedur Delete VLAN

Command :

```
ipnet@EX32-MIMIX # delete vlans vlan_server vlan-id 100
ipnet@EX32-MIMIX # delete vlans vlan_coba vlan-id 101
ipnet@EX32-MIMIX # commit
```

- ♦ Prosedur Disable Port Ethernet

Command :

```
ipnet@EX32-MIMIX# set interfaces ge-0/0/28 disable
ipnet@EX32-MIMIX# set interfaces ge-0/0/29 disable
ipnet@EX32-MIMIX# commit
```

- ♦ Prosedur Enable Port Ethernet

Command :

```
ipnet@EX32-MIMIX# set interfaces ge-0/0/28 enable
ipnet@EX32-MIMIX# set interfaces ge-0/0/29 enable
ipnet@EX32-MIMIX# commit
```

## 4.5 BCN

- ♦ Mengkonfigure Interface Dengan Protokol PPP

\$bcc

box>config

box#serial[slot/port];circuit-

name[Sslot/port\_name];ppp;ip[ip\_address/mask];circuitname[name];
box

- ♦ Mengkonfigure Interface Dengan Protokol Frame-Relay

\$bcc

```
box>config  
box#serial[slot/port];circuitname[Sslot/port_name];FR;dlcmi  
management-type none;back;default-  
service;pvc;dlci16;back;ip[ip_address/mask];box
```

♦ Cara Membuat Routing

```
$bcc  
box>config  
box#ip;static-route [destination address]/[mask]/[next-hop-address]
```

♦ Cara Delete Routing

```
$bcc  
box>config  
box#ip;static-route [destination address]/[mask]/[next-hop-address]  
delete
```

♦ Mengkonfigure NAT Unidirection (DRC)

```
$bcc  
box>config  
#public interface#  
box#Module [slot/port];ip[ip_address/mask];NATdomain-name  
public;box  
#private interface#  
box#Module [slot/port];ip[ip_address/mask];NATdomain-name  
public;box  
#static NAT#  
box#ip;nat;domain private;static-map  
private_addr/Translated_addr/Public;box
```

♦ Menghapus NAT Unidirection ( Normal )

```
$bcc  
box>config
```

box#ip;nat;delete;box

#### 4.6 Juniper M10i

- ♦ Membuat VRF Baru

Create VRF di Juniper M10i

Misalkan, akan menambah VRF A yang keluar di M10i DC dan M10i DRC dengan *langkah-langkah sebagai berikut* :

1. Create LSP utk VRF-A tersebut di PE DC dan PE DRC

PE DC:

```
admin@M10-DC# set protocols mpls label-switched-path VRF-A to  
172.16.31.1
```

PE DRC:

```
admin@M10-DRC# set protocols mpls label-switched-path VRF-A to  
172.16.11.1
```

2. Create Community untuk VRF-A pada PE DC dan PE DRC

PE DC:

```
admin@M10-DC# set policy-options community VRF-A members  
target:65000:10
```

PE DRC:

```
admin@M10-DRC# set policy-options community VRF-A members  
target:65000:10
```

3. Create Routing Policy VRF-A di PE DC dan PE DRC

PE DC:

```
admin@M10-DC# set policy-options policy-statement vpn1-export  
term 1 from protocol static  
admin@M10-DC# set policy-options policy-statement vpn1-export  
term 1 from protocol direct
```



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```
admin@M10-DC# set policy-options policy-statement vpn1-export
term 1 then community add VRF-A
admin@M10-DC# set policy-options policy-statement vpn1-export
term 1 then accept
admin@M10-DC# set policy-options policy-statement vpn1-export
term 2 then reject
admin@M10-DC# set policy-options policy-statement vpn1-import
term 1 from protocol bgp
admin@M10-DC# set policy-options policy-statement vpn1-import
term 1 from community VRF-A
admin@M10-DC# set policy-options policy-statement vpn1-import
term 1 then accept
admin@M10-DC# set policy-options policy-statement vpn1-import
term 2 then reject
```

#### PE DRC:

```
admin@M10-DRC# set policy-options policy-statement vpn1-export
term 1 from protocol static
admin@M10-DRC# set policy-options policy-statement vpn1-export
term 1 from protocol direct
admin@M10-DRC# set policy-options policy-statement vpn1-export
term 1 then community add VRF-A
admin@M10-DRC# set policy-options policy-statement vpn1-export
term 1 then accept
admin@M10-DRC# set policy-options policy-statement vpn1-export
term 2 then reject
admin@M10-DRC# set policy-options policy-statement vpn1-import
term 1 from protocol bgp
admin@M10-DRC# set policy-options policy-statement vpn1-import
term 1 from community VRF-A
admin@M10-DRC# set policy-options policy-statement vpn1-import
term 1 then accept
```



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```
admin@M10-DRC# set policy-options policy-statement vpn1-import  
term 2 then reject
```

4. Create Routing Instance VRF-A di PE-DC dan PE DRC:

PE DC:

```
admin@M10-DC# set routing-instances VRF-A description VRF-A  
admin@M10-DC# set routing-instances VRF-A instance-type vrf  
admin@M10-DC# set routing-instances VRF-A interface ge-0/0/2.0  
admin@M10-DC# set routing-instances VRF-A route-distinguisher  
65000:10  
admin@M10-DC# set routing-instances VRF-A vrf-import vpn1-import  
admin@M10-DC# set routing-instances VRF-A vrf-export vpn1-export
```

PE DRC:

```
admin@M10-DRC# set routing-instances VRF-A description VRF-A  
admin@M10-DRC# set routing-instances VRF-A instance-type vrf  
admin@M10-DRC# set routing-instances VRF-A interface ge-0/0/2.0  
admin@M10-DRC# set routing-instances VRF-A route-distinguisher  
65000:10  
admin@M10-DRC# set routing-instances VRF-A vrf-import vpn1-  
import  
admin@M10-DRC# set routing-instances VRF-A vrf-export vpn1-  
export
```

Add Routing Baru ke VRF



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Add routing baru ke VRF dilakukan *dengan langkah langkah sebagai berikut :*

1. Static Route

```
admin@M10-DC# set routing-instances VRF-A routing-options static
route 192.168.10.0/32 next-hop 10.1.1.1
```

2 Dynamic Route (OSPF)

```
admin@M10-DC# set routing-instances VRF-A protocols ospf domain-
id disable
```

```
admin@M10-DC# set routing-instances VRF-A protocols ospf export
vpn1-import
```

```
admin@M10-DC# set routing-instances VRF-A protocols ospf area
0.0.0.0 interface fe-0/0/0.0
```

## BAB 5. REQUEST DAILY OPERATIONAL

*Request daily operational* merupakan permintaan tugas tambahan dari pihak BRI ODR kepada team WCS DRC untuk melakukan update data mengenai data ruang server DRC secara continue.

## 5.1 Update Layout Ruang Server DRC

Bentuk *layout* ruang server DRC yang dikerjakan MA-WCS

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	
DD																																		DD
CC																																		CC
BB																																		BB
AA																																		AA
Z																																		Z
Y																																		Y
X																																		X
W																																		W
V																																		V
U																																		U
T																																		T
S																																		S
R																																		R
Q																																		Q
P																																		P
O																																		O
N																																		N
M																																		M
L																																		L
K																																		K
J																																		J
I																																		I
H																																		H
G																																		G
F																																		F
E																																		E
D																																		D
C	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	C				
B	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	A
A	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	A

Koordinat Rak	Nama Rack
B1	HP Rack System ( kosong )
B2	EMC Connectrix ( kosong )
B3	WAN Optimizer ( Kosong )
B4	RACK ICON+ baru
B5	RACK CSM
B8	AC LIEBERT 3
B14	Sensor Humadity & Sensor Temperatur
B19	RACK PATCH PANEL
B20	RACK ICON+
B21	RACK PHONE
B22	RACK BCN
B23	RACK PASSPORT 7400
B24	RACK FIREWALL
B25	RACK PASSPORT 8600
B26	Rack NEW 1
B27	Rack NEW 2
B28	Rack NEW 3
B30	RACK HPI
B33	Rack Intel Mounted 2
C31	Rack IBM Total Storage tape controller frame
E25	Tape Library
G24	Rack IBM System Storage
G25	Rack IBM System Storage
G26	Rack IBM System Storage
G27	Rack IBM System Storage
G29	Rack IBM System Storage
G30	Rack IBM System Storage
G31	Rack IBM System Storage
L26	Rack Storagetek 9741 E
M23	RACK INTEL BLADE 1
M26	CPU AS/400
M31	Dasd AS/400
N23	Rack EATL
N31	Dasd AS/400
O26	Dasd AS/400
O31	Dasd AS/400
P23	NetApp
P26	Dasd AS/400
P31	Dasd AS/400
Q23	NetApp
Q26	Dasd AS/400
Q31	Dasd AS/400
R23	Rack Intel FT 1
R26	Dasd AS/400
R31	Dasd AS/400
S23	Rack Intel Mounted 4
S26	Dasd AS/400
S31	Dasd AS/400
T26	Tape Storage
T31	Rack Pseries IBM ( proswitching )
U23	Rack HPI 1
U26	Rack Inticom
U31	Rack Inticom
V23	Rack HPI 2
V26	Rack Inticom
W31	Rack Inticom
W23	Rack HPI 3
W26	Rack Inticom
W31	Rack Inticom
X23	Rack HPI 4
DD3	Panel PB
S13	Sensor Suhu Ruangan (3)
P28	Sensor Suhu Ruangan (2)
Z28	Sensor Suhu Ruangan (1)
CC6	AC LIEBERT 1
CC24	AC LIEBERT 2
DD31	Panel PW ( SDP 5 )
DD32	Panel PW ( SDP 1 )
W18	Rack Storage
W18	Rack Storage
X18	Rack Storage
Y18	Rack Storage
Y31	Rack Main Frame

## 5.2 Update Mapping Server



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Bentuk tabel data Mapping Server yang dikerjakan MA-WCS

Nama Rak	Letak #	Nama Perangkat	Label Power	Keterangan	PIC / Vendor	Keterangan
B1	Kosong	HP Hewlett Packard RACK System		Kosong		
B2	Kosong	RACK EMC CONECTRIX		Kosong		update 310510
B3	Kosong	Rack WAN Optimizer		Kosong		
		RACK ICON+ Baru				
B4	U2	Slot Card DS3		Jalur utama DS3 dari Gandul		Icon+
B4	U8	Optik metro 155/622(metro 2050)				Icon+
B4	U27	Power Supply / Redifiter		link from rack icon+		Icon+
B4						
B4						
B5						
B6		AC Liebert 3				Jaya teknik
		RACK CSM				
B5	U14	Cisco Catalyst 3560 SN = FOC1243W1VL	P0502	L3 switch		
B5	U15	Ether Access R1-E1	P0502	converter E1 to RJ	PT. Cera Sari Makmur	
B5	U16	Ether Access R1-E1	P0502	converter E1 to RJ	PT. Cera Sari Makmur	
B5						
B5						
B5						
		RACK PATCH PANEL				
B19	U1	Cisco Catalyst 2950	PW0413	L2 switch		
B19	U2	Nortel Baystack 420-24T Switch	PW0413	Pass through 60.0.4.6		
B19	U7	Nortel Baystack 5530	PW0413			HCIS
B19	U9	Juniper EX300 48 Port (for mimix dan WAAS)		L3 switch mimix WAAS and metap		HCIS
B19	U10	3Com Switch 226				
B19	U12	Cisco Catalyst 2960		For FTP WebBank		
B19	U13	3Com Switch 2824	PW0413	L2 switch		
B19	U14	Nortel Baystack 5510 Switch Pihak Ke-3 (RTGS)	PW0413	L3 Switch		HCIS
B19	U17	Cisco Catalyst 2950 Web B-Bank	PW0413	L2 Web Ebank		
B19	U18	Cisco Catalyst 2950 AC UPS	PW0413	AC, UPS		
B19	U19	Patch Panel Port 25-48		pp860 port 25-48		
B19	U20	Patch Panel Port 1-24		pp860 port 1-24		
B19	U21	Patch Panel port 337-341; Bbone1-2; BboneC1-C2; BboneD1-D2				
B19	U22	Patch Panel port 213-236				
B19	U24	Patch Panel port 289-311				
B19	U25	Patch Panel port 265-288				
B19	U27	Patch Panel port 241-264				
B19	U28	Patch Panel port 217-248				
B19	U30	Patch Panel port 193-216				
B19	U31	Patch Panel port 169-192				
B19	U33	Patch Panel port 145-168				
B19	U34	Patch Panel port 121-144				
B19	U36	Patch Panel port 97-120				
B19	U37	Patch Panel port 73-96				
B19	U39	Patch Panel port 49-72				
B19	U40	Patch Panel port 15-48				
B19	U42	Patch Panel port 1-24				
		RACK ICON +				
B20	U6	Modem RAD R1C - E1 D33	PW0410	Untuk ATRIKA 1000		ICON+
B20	U1	Modem RAD R1C - E1 D33	PW0410			belum bisa dbrna keluar karna belum ada suratnya (07102010)
B20	U5	Patch panel LSA				ICON+
B20	U20	Cisco System 7200 series VXR	PW0410			ICON+
B20	U21#5	Teknologi Media Converter 10/100 M Dual Speed	PW0410	Jenis RJ-45/RJ-45-T dan RJ-45/T-568B		ICON+
B20	U21#3	RAD R1C1-R1I	PW0410	to Cisco 2800 Indosat		ICON+
B20	U24	Power ONE PMP 740 SIC Rectifier	PW0410			ICON+
B20	U24	power Supply	PW0410			ICON+
		RACK PANEL TELEPHONE				
B21	U1	Tellabs B120	PW 0423	to converter RAD E1 icon+	Lintas Arta	
B21	U3	Cisco 1900 FX-1820P5T-JD-3KT		Router Lintas Artha	Lintas Arta	
B21	U44#1	Modem Motorola	PW 0423			
B21	U44#2	Modem VPN Juniper SSG 5 B	PW 0423			
B21	U5	Modem VPN Juniper SSG 5 A	PW 0423			
B21	U7	Ruter Home/ OTB		to SDH Huawei ICON		ICON+
B21	U9	Cisco 1900 SN: B2WS051041600679	PW 0423			Lintas Arta
B21	U10	Cisco 1900 SN: PHF1110F30E		to server RTGS		
B21	U11	Converter E1 to V35		for Cloud Reuters	INDOSAT	
B21	U13	OTB Indosat NWC				
B21	U14	OTB 12 core		perangkat rusak		
B21	U15	OTB 12 core				Telkom
B21	U16	OTB 12 core				Telkom
B21	U17	Cisco 2900 (Teknologi) FRK1309FOSS	PW 0423			
B21	U18	Transition Networks (Teknologi) CPSMC0100-2xx	PW 0423	Converter FO to Ethernet		
B21	U21	Cisco 2725 Series (Sekarang) SfNPM0703L461	PW 0423			Saktimindo
B21	U22#1	Transition Networks Single Slot Chassis	PW 0423			
B21	U22#2	Transition Networks Single Slot Chassis (PT.CSM )	PW 0423	Converter FO to Ethernet.	PT.CSM	
B21	U24	Cisco 2900 Petakom Telkom	PW 0423			Petakom
B21	U25	Transition Networks Single Slot Chassis		Converter FO to Ethernet.		
B21	U26	Cisco 2900 (Indosat) FRH1337F1AF				Indosat
B21	U28	Cisco Catalyst 3560	PW0416	Switch L3		
B21	U31	Patch Panel 170 port (panduit telepon)				

### **5.3 Update Data DTRA Patch Panel DRC**



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### Bentuk Tabel Data DTRA Patch Panel DRC yang dikerjakan MA-WCS

DTRA#	Source	Source IP	Destination	Destination IP	Kordinat	Keterangan	Tanggal Update
DTRA1	Rack IBM Total Storage Tape Contraller Frame SHC Switch port 6	64.0.0.X	Passport 8600 Port-1/12	64.0.0.1	I31	Aktif	update 270510
DTRA2					I31	kosong	
DTRA3					I31	kosong	
DTRA4	ECC Server	64.0.0.176	Passport 8600 Port-1/13	64.0.0.1	I31	Aktif	dipindahkan tgl 200510
DTRA5					I31	kosong	
DTRA6					I31	kosong	
DTRA7					I31	kosong	
DTRA8					I31	kosong	
DTRA9					I31	kosong	
DTRA10					I31	kosong	
DTRA11					I31	kosong	
DTRA12					I31	kosong	
DTRA13	AS/400 Line POLL rack 10 C12	68.0.0.100	Passport 8600 Port-1/7	68.0.0.1	032	Aktif	
DTRA14	AS/400 Line MIMIX rack 10 C14 T1 Frame 1	60.0.6.5	EX3200 mimix Port-10	60.0.6.1	032	Aktif	
DTRA15	AS/400 rack 10				032	tidak terpasang	
DTRA16	AS/400 Mimix-5 Rack 10 Frame 1 C14 T2	60.0.12.5	EX3200 mimix Port 20	60.0.1.1	032	Aktif	
DTRA17	AS/400 Rack 09 Frame 1 C-06	70.0.0.100	Passport 8600 Port-1/31	70.0.0.1	032	inactive / terpasang ga aktif	
DTRA18	AS/400 Line Pool#1 rack 9 C12	64.0.0.100	Passport 8600 Port-1/19	64.0.0.1	032	Aktif	
DTRA19	AS/400 rack 9				032	tidak terpasang	
DTRA20	AS/400 Line MIMIX rack 10				032	tidak terpasang	
DTRA21	AS/400 rack 8 C06				032	Terpasang tpi blum Aktif	
DTRA22	AS/400 Rack 08 Frame 1 C12	65.0.0.100			032	tidak terpasang	
DTRA23	AS/400 rack 8				032	tidak terpasang	
DTRA24	AS/400 rack 8				032	tidak terpasang	
DTRA25					U31	Kosong	
DTRA26					U31	Kosong	
DTRA27					Y31	Kosong	
DTRA28					Y31	Kosong	
DTRA29					S24	Kosong	
DTRA30							
DTRA31							
DTRA32							
DTRA33							
DTRA34	Avocent		3COM port 2		S24	Aktif	
DTRA35					S23		
DTRA36					S24	Kosong	
DTRA37	SWIFT HMS ( Safe-Net )	66.0.0.24 / 192.168.2.2	Passport 8600 Port-1/44	66.0.0.1	S24	aktif	
DTRA38					K20	Kosong	
DTRA39					K20	Kosong	
DTRA40					K20	Kosong	
DTRA41	Catalyst 2960 SW#1 Rack#2 Port-45	61.1.1.x	Catalyst 2950 Web Ebank port 11	61.1.1.x	K20	aktif	
DTRA42	Catalyst 2960 SW#2 Rack#2 Port-48	61.1.2.x	Catalyst Web Ebank Port-7	61.1.2.x	K20	aktif	
DTRA43					K20	Kosong	
DTRA44					K20	Kosong	
DTRA45					K20	Kosong	
DTRA46	Cisco Catalyst port 3 CSM		Transistor Network ( Converter E1 to RJ )		D5	aktif	
DTRA47					D5	Kosong	
DTRA48					D5	Kosong	
DTRA49					D5	Kosong	
DTRA50					D5	Kosong	
DTRA51					D5	Kosong	
DTRA52					D5	Kosong	
DTRA53					D5	Kosong	

Cara membaca Data DTRA Patch Panel DRC dibedakan dengan warna,

Contoh :

DTRA 1 – DTRA 12 dalam satu BOX DTRA sedangkan DTRA 13 – DTRA 24 dalam satu BOX DTRA lain dengan letak koordinat yang berbeda.

Setiap BOX DTRA terletak pada koordinat berbeda dengan pusat DTRA ada pada Rack Patch Panel.

## 5.4 Update Data Detail Perangkat Network



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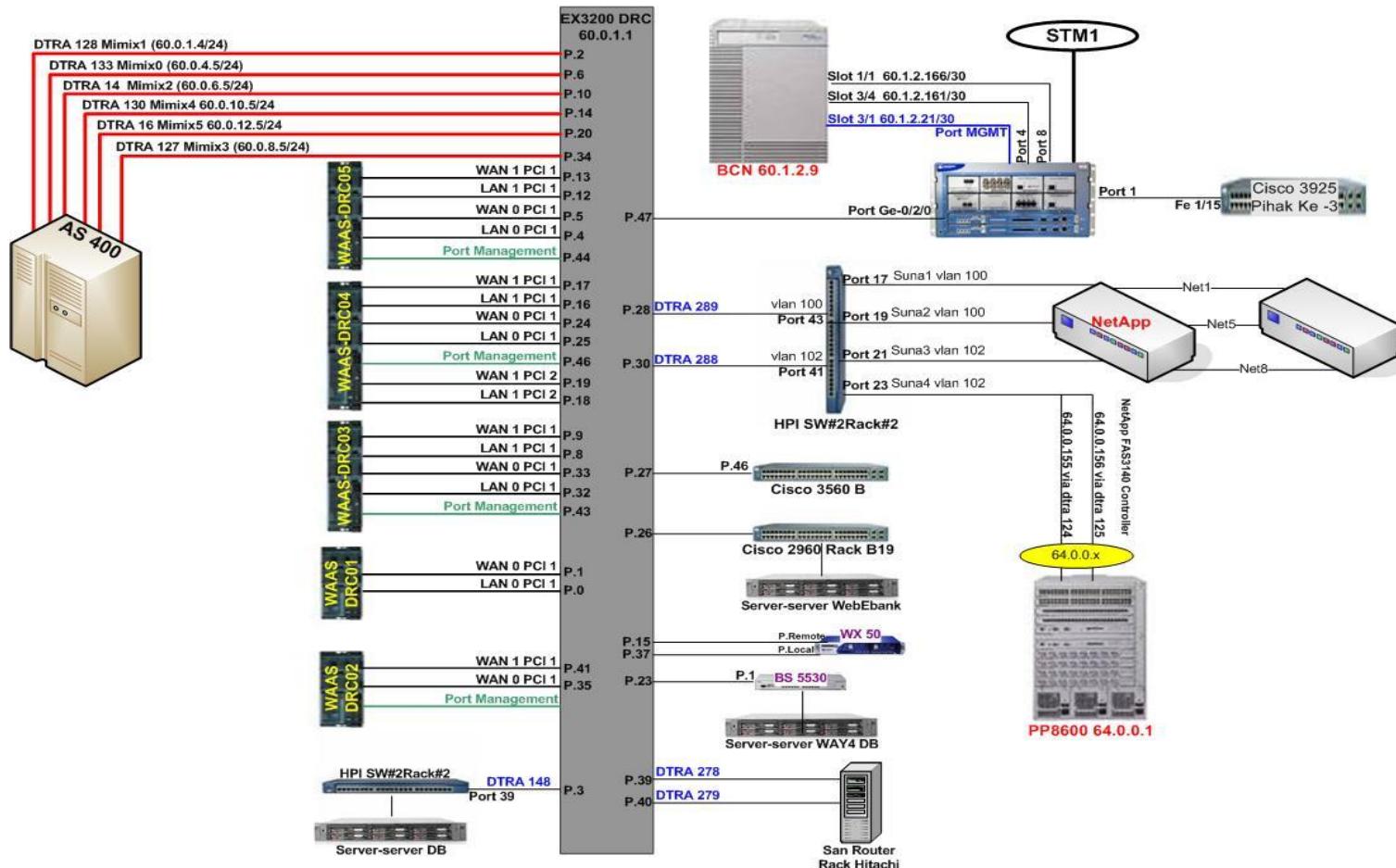
### Bentuk Tabel Data Detail Perangkat Network yang dikerjakan MA-WCS

Name	EX3200 Mimix DRC							
IP Address	60.0.1.1							
MAC Address								
Merk	Juniper (EX 3200)							
Firmware	JUNOS 9.2-20081126.1 built 2008-11-26							
EX3200 Mimix A								
Port Num	VLAN ID	VLAN Name	IP	Speed	Access/Trunk	DTRA	Label	Status
0	1	vlan1	60.0.1.x	Auto				Up
1	2	vlan2	60.0.1.1/24	Auto				Up
2	1	vlan1	60.0.1.x	Auto		DTRA 128		Up
3	1	vlan1	60.0.1.x	Auto		DTRA 148		Up
4	6	vlan6	60.0.4.x	Auto				Up
5	3	vlan3	60.0.4.1/24	Auto				Up
6	6	vlan6	60.0.4.x	Auto		DTRA 133		Up
7	16	vlan16	60.0.16.1/24	Auto				Up
8	7	vlan7	60.0.6.x	Auto				Up
9	4	vlan4	60.0.6.1/24	Auto				Up
10	7	vlan7	60.0.6.x	Auto		DTRA 14		Up
11	18	vlan18	60.0.18.1/24	Auto				Up
12	9	vlan9	60.0.10.x	Auto				Up
13	10	vlan10	60.0.10.1/24	Auto				Up
14	9	vlan9	60.0.10.x	Auto		DTRA 130		Up
15	20	vlan20	60.0.20.1/24	Auto				Up
16								Up
17								Up
18	11	vlan11	60.0.12.x	Auto				Up
19	12	vlan12	60.0.12.1/24	Auto				Up
20	11	vlan11	60.0.12.x	Auto		DTRA 16		Up
21	11	vlan11		Auto				Up
22								
23	17	vlan17	60.0.18.x	Auto				Up
24	17	vlan17	60.0.18.x	Auto				Up
25	18	vlan18	60.0.18.1/24	Auto				Up
26	14	vlan14	60.0.14.1/24	Auto				Up
27								Up
28	1	vlan1	60.0.1.x	Auto		DTRA 289		Up
29	1	vlan1	60.0.1.x	Auto				Up
30	1	vlan1	60.0.1.x	Auto		DTRA 288		Up
31								
32	8	vlan8	60.0.8.x	Auto				Up
33	5	vlan5	60.0.8.1/24	Auto				Up
34	8	vlan8	60.0.8.x	Auto		DTRA 127		Up
35								Up
36	3	vlan3	60.0.4.1/24	Auto				Up
37	19	vlan19	60.0.20.x	Auto				Up
38	19	vlan19	60.0.20.x	Auto				Up
39	22	vlan22	60.0.22.1/24	Auto		DTRA 278		Up
40	24	vlan24	60.0.24.1/24	Auto		DTRA 279		Up
41								Up
42								Up
43	2	vlan2	60.0.1.1/24	Auto				Up
44	3	vlan3	60.0.4.1/24	Auto				Up
45	4	vlan4	60.0.6.1/24	Auto				Up
46	5	vlan5	60.0.8.1/24	Auto				Up
47	200	vlan200	60.0.197.1/29	Auto				Up

Cara membaca Data Detail Perangkat Network dibedakan dengan port member aktif ( green ) dan non-aktif ( red colour ) dengan data detail yang ada dalam setiap perangkat diruang server DRC.

## 5.5 Update Gambar Network DRC

Bentuk Gambar Network DRC secara detail yang dikerjakan MA-WCS



## 5.6 Update Gambar Visualisasi Rack

Bentuk Gambar Visualisasi Rack yang dikerjakan MA-WCS



Project Name		Title	
Network Switching BRI		Visualisasi RAK-1 in DRC	
Drawn by	Version	Date	Approved
WCS	Ver 1.0	Juni 2010	

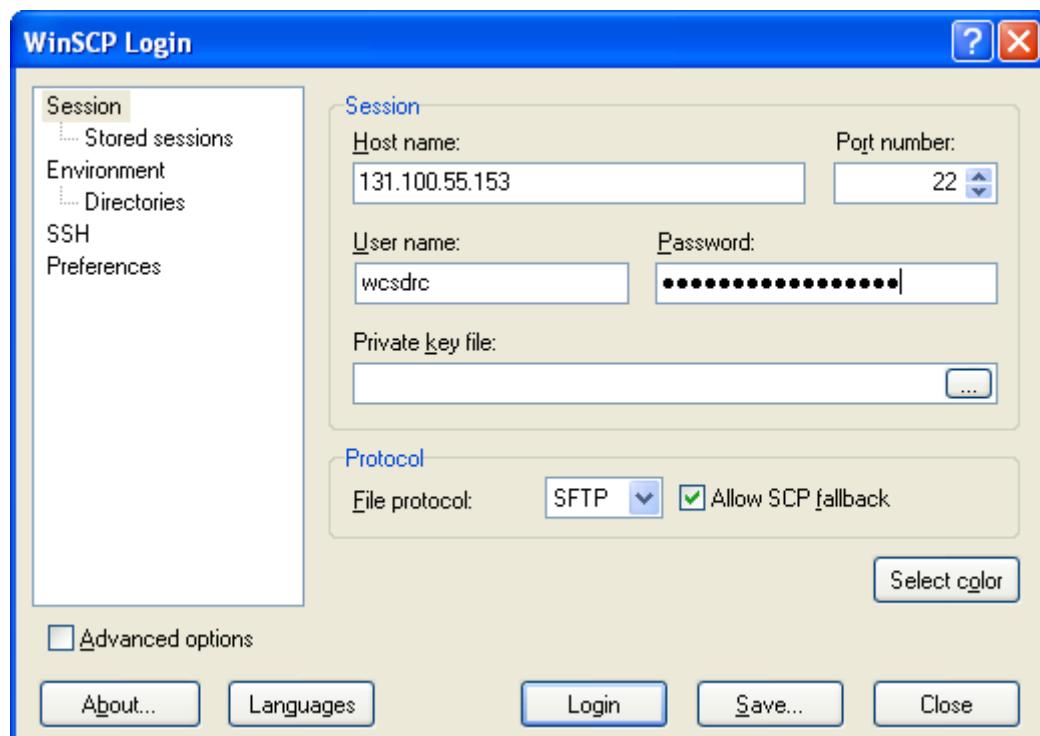
## BAB 6. CARA MELAKUKAN FTP BACKUP CONFIGURATION

*FTP Backup configuration* dilakukan setiap hari pada pukul 08:00 wita. Data hasil capture konfigurasi perangkat dengan menggunakan telnet, ssh atau serial, khusus perangkat WCS. Save file dalam bentuk .txt ( notepad ) dan file bentuk .txt diformat menjadi bentuk .tar ( winzip ). Dan data tersebut disimpan dalam folder D:\Data Terupdate WCS\Operasional\Tahun\Bulan\Tanggal\Backup Config Network

Cara melakukan FTP Backup Configuration :

1. Buka aplikasi WinSCP

Dapat dibuka dengan cara klik START → All Program → WinSCP  
Kemudian isi Host name , user name dan passwordnya , klik Login





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2. Setelah login maka akan menampilkan layout seperti dibawah ini

The screenshot displays two separate file explorers side-by-side, likely representing a WinSCP session. The left pane, titled 'wcsrc - wcsrc@131.100.55.153 - WinSCP', shows the local drive C:\Documents and Settings\WCS\My Documents. It lists several folders and files, including 'My Documents', 'My Data Sources', 'My Music', 'My Pictures', 'My Shapes', 'My Videos', 'My Virtual Machines', 'My Webs', 'NeroVision', 'PC LOGIN', 'Sports Interactive', 'Win 7 Ultimate', 'WIN7PRO', and various document files like 'Doc1.doc', 'LAN New.vsd', 'MMIXX.doc', 'Request Pak Arga.doc', 'skenario test GO LIVE...', 'skenario test GO LIVE...', 'SOP-WCS-TSD-OSD-01 ...', 'Thumbs.db', and 'UserImages.bmp'. The right pane, titled '/home/wcsdrc', shows the contents of the user's home directory on the remote server. It includes a root folder, a .ssh folder containing .bash\_history, .bash\_logout, and .bashrc, and a examples.desktop file. The status bar at the bottom of each pane provides file counts and sizes: '0 B of 5,666 kB in 0 of 26' for the left and '0 B of 6,608 B in 0 of 7' for the right. The bottom right corner of the interface shows connection details: 'SFTP-3' and '0:00:12'.

Kemudian untuk kolom kiri merupakan kolom daerah PC WCS DRC dan kolom kanan daerah FTP server, untuk kolom PC WCS DRC masuk kedalam drive D:\Data



DIS/PAN-04-01-00 : 12:01:00

D:\ - wcsdrcc@131.100.55.153 - WinSCP

Local Mark Files Commands Session Options Remote Help

D:\ Data

Name	Ext	Size	Type	Changed	Attr
Adobe(R) Photoshop(R) CS2			File Folder	8/11/2011 ...	
backup 106			File Folder	5/17/2012 ...	
Backup data WCS			File Folder	11/8/2010 ...	
Bckp Data			File Folder	8/11/2011 ...	
Data Terupdate WCS			File Folder	5/22/2012 ...	
dhany			File Folder	5/12/2012 ...	
Difrenceexcore82			File Folder	5/21/2012 ...	
dirham			File Folder	2/29/2012 ...	
documentasi			File Folder	5/23/2012 ...	
downloads			File Folder	5/18/2012 ...	
harlon			File Folder	5/19/2012 ...	
Iso Linux			File Folder	5/3/2012 ...	
MahN			File Folder	5/24/2012 ...	
NSM client			File Folder	10/28/2010 ...	
paulus			File Folder	5/18/2012 ...	
RECYCLER			File Folder	5/3/2012 ... sh	
Software			File Folder	5/18/2012 ...	
System Volume Information			File Folder	5/6/2012 ... sh	
utmp			File Folder	3/3/2012 ...	
eula.1049.txt		10,134	Text Document	4/11/2008 ... a	
Foxit PDF Reader v3.1 Pro.rar		5,784,735	WinRAR archive	10/17/2011 ... a	
install.res.1049.dll		93,200	Application Ext...e...	4/11/2008 ... a	
kao.txt		2,660	Text Document	3/23/2012 ... a	
msg10us.exe		418,616	Application	6/22/2011 ... a	
Onet.exe		730,624	Application	12/8/2010 ... a	

0 B of 8,126 KB in 0 of 28

F2 Rename F4 Edit F5 Copy F6 Move F7 Create Directory F8 Delete F9 Properties F10 Quit

Operation Source Destination Transferred Time/Speed Progress

/home/wcsdrcc/root/2012

Name	Ext	Size	Changed	Rights	Owner
..			4/25/2012 4:21...	rwxrwxrwx	wcsdrcc
01 Januari 2012			1/31/2012 7:25...	rwxr-xr-x	wcsdrcc
02 Februari 2012			2/29/2012 8:11...	rwxr-xr-x	wcsdrcc
03 Maret 2012			3/31/2012 10:0...	rwxr-xr-x	wcsdrcc
04 April 2012			4/30/2012 2:18...	rwxr-xr-x	wcsdrcc
05 Mei 2012			5/24/2012 7:38...	rwxr-xr-x	wcsdrcc
06 Juni 2012			1/2/2012 7:19...	rwxr-xr-x	wcsdrcc
07 Juli 2012			1/2/2012 7:19...	rwxr-xr-x	wcsdrcc
08 Agustus 2012			1/2/2012 7:19...	rwxr-xr-x	wcsdrcc
09 September 2012			1/2/2012 7:19...	rwxr-xr-x	wcsdrcc
10 Oktober 2012			1/2/2012 7:20...	rwxr-xr-x	wcsdrcc
11 November 2012			1/2/2012 7:20...	rwxr-xr-x	wcsdrcc
12 Desember 2012			1/2/2012 7:20...	rwxr-xr-x	wcsdrcc
ARCHIVE			1/2/2012 7:24...	rwxr-xr-x	wcsdrcc

0 B of 0 B in 0 of 13

SFTP-3 0:03:15

### 3. Klik folder D:\Data Terupdate WCS\Operasional\2012\05\_Mei\24\Backup Config Network

D:\ - wcsdrcc@131.100.55.153 - WinSCP

Local Mark Files Commands Session Options Remote Help

D:\ Data

Name	Ext	Size	Type	Changed	Attr
Adobe(R) Photoshop(R) CS2			File Folder	8/11/2011 ...	
backup 106			File Folder	5/17/2012 ...	
Backup data WCS			File Folder	11/8/2010 ...	
Bckp Data			File Folder	8/11/2011 ...	
Data Terupdate WCS			File Folder	5/22/2012 ...	
dhany			File Folder	5/12/2012 ...	
Difrenceexcore82			File Folder	5/21/2012 ...	
dirham			File Folder	2/29/2012 ...	
documentasi			File Folder	5/23/2012 ...	
downloads			File Folder	5/18/2012 ...	
harlon			File Folder	5/19/2012 ...	
Iso Linux			File Folder	5/3/2012 ...	
MahN			File Folder	5/24/2012 ...	
NSM client			File Folder	10/28/2010 ...	
paulus			File Folder	5/18/2012 ...	
RECYCLER			File Folder	5/3/2012 ... sh	
Software			File Folder	5/18/2012 ...	
System Volume Information			File Folder	5/6/2012 ... sh	
utmp			File Folder	3/3/2012 ...	
eula.1049.txt		10,134	Text Document	4/11/2008 ... a	
Foxit PDF Reader v3.1 Pro.rar		5,784,735	WinRAR archive	10/17/2011 ... a	
install.res.1049.dll		93,200	Application Ext...e...	4/11/2008 ... a	
kao.txt		2,660	Text Document	3/23/2012 ... a	
msg10us.exe		418,616	Application	6/22/2011 ... a	
Onet.exe		730,624	Application	12/8/2010 ... a	

0 B of 8,126 KB in 1 of 28

F2 Rename F4 Edit F5 Copy F6 Move F7 Create Directory F8 Delete F9 Properties F10 Quit

Operation Source Destination Transferred Time/Speed Progress

/home/wcsdrcc/root/2012

Name	Ext	Size	Changed	Rights	Owner
..			4/25/2012 4:21...	rwxrwxrwx	wcsdrcc
01 Januari 2012			1/31/2012 7:25...	rwxr-xr-x	wcsdrcc
02 Februari 2012			2/29/2012 8:11...	rwxr-xr-x	wcsdrcc
03 Maret 2012			3/31/2012 10:0...	rwxr-xr-x	wcsdrcc
04 April 2012			4/30/2012 2:18...	rwxr-xr-x	wcsdrcc
05 Mei 2012			5/24/2012 7:38...	rwxr-xr-x	wcsdrcc
06 Juni 2012			1/2/2012 7:19...	rwxr-xr-x	wcsdrcc
07 Juli 2012			1/2/2012 7:19...	rwxr-xr-x	wcsdrcc
08 Agustus 2012			1/2/2012 7:19...	rwxr-xr-x	wcsdrcc
09 September 2012			1/2/2012 7:19...	rwxr-xr-x	wcsdrcc
10 Oktober 2012			1/2/2012 7:20...	rwxr-xr-x	wcsdrcc
11 November 2012			1/2/2012 7:20...	rwxr-xr-x	wcsdrcc
12 Desember 2012			1/2/2012 7:20...	rwxr-xr-x	wcsdrcc
ARCHIVE			1/2/2012 7:24...	rwxr-xr-x	wcsdrcc

0 B of 0 B in 0 of 13

SFTP-3 0:05:44



DIS/PAN-04-01-00 : 12:01:00

Data Terupdate WCS - wcsdrc@131.100.55.153 - WinSCP

Local Mark Files Commands Session Options Remote Help

D:\Data

Name	Ext	Size	Type	Changed	Attr
..			Parent directory	5/22/2012 ...	
#DOKUMENTASI			File Folder	5/22/2012 ...	
Crew WCS DRC			File Folder	5/22/2012 ...	r
Dokumentasi BRI-DRC			File Folder	5/22/2012 ...	
Operasional			File Folder	5/24/2012 ...	
131.100.55.224.iaf		698	IAF File	5/16/2012 ...	a

0 B of 698 B in 0 of 5

F2 Rename F4 Edit F5 Copy F6 Move F7 Create Directory F8 Delete F9 Properties F10 Quit

Operation Source Destination Transferred Time/Speed Progress

/home/wcsdrc/root/2012

Name	Ext	Size	Changed	Rights	Owner
..			4/25/2012 4:21...	rwxrwxrwx	wcsdrc
01 Januari 2012			1/31/2012 7:25...	rwxr-xr-x	wcsdrc
02 Februari 2012			2/29/2012 8:11...	rwxr-xr-x	wcsdrc
03 Maret 2012			3/31/2012 10:0...	rwxr-xr-x	wcsdrc
04 April 2012			4/30/2012 2:18...	rwxr-xr-x	wcsdrc
05 Mei 2012			5/24/2012 7:38...	rwxr-xr-x	wcsdrc
06 Juni 2012			1/2/2012 7:19...	rwxr-xr-x	wcsdrc
07 Juli 2012			1/2/2012 7:19...	rwxr-xr-x	wcsdrc
08 Agustus 2012			1/2/2012 7:19...	rwxr-xr-x	wcsdrc
09 September 2012			1/2/2012 7:19...	rwxr-xr-x	wcsdrc
10 Oktober 2012			1/2/2012 7:20...	rwxr-xr-x	wcsdrc
11 November 2012			1/2/2012 7:20...	rwxr-xr-x	wcsdrc
12 Desember 2012			1/2/2012 7:20...	rwxr-xr-x	wcsdrc
ARCHIVE			1/2/2012 7:24...	rwxr-xr-x	wcsdrc

0 B of 0 B in 0 of 13

SFTP-3 0:07:15

Operasional - wcsdrc@131.100.55.153 - WinSCP

Local Mark Files Commands Session Options Remote Help

D:\Data\Operasional

Name	Ext	Size	Type	Changed	Attr
..			Parent directory	5/24/2012 ...	
2012			File Folder	5/16/2012 ...	
Report End Of Year 2012			File Folder	5/24/2012 ...	
Software Operasional			File Folder	5/22/2012 ...	

0 B of 0 B in 1 of 3

F2 Rename F4 Edit F5 Copy F6 Move F7 Create Directory F8 Delete F9 Properties F10 Quit

Operation Source Destination Transferred Time/Speed Progress

/home/wcsdrc/root/2012

Name	Ext	Size	Changed	Rights	Owner
..			4/25/2012 4:21...	rwxrwxrwx	wcsdrc
01 Januari 2012			1/31/2012 7:25...	rwxr-xr-x	wcsdrc
02 Februari 2012			2/29/2012 8:11...	rwxr-xr-x	wcsdrc
03 Maret 2012			3/31/2012 10:0...	rwxr-xr-x	wcsdrc
04 April 2012			4/30/2012 2:18...	rwxr-xr-x	wcsdrc
05 Mei 2012			5/24/2012 7:38...	rwxr-xr-x	wcsdrc
06 Juni 2012			1/2/2012 7:19...	rwxr-xr-x	wcsdrc
07 Juli 2012			1/2/2012 7:19...	rwxr-xr-x	wcsdrc
08 Agustus 2012			1/2/2012 7:19...	rwxr-xr-x	wcsdrc
09 September 2012			1/2/2012 7:19...	rwxr-xr-x	wcsdrc
10 Oktober 2012			1/2/2012 7:20...	rwxr-xr-x	wcsdrc
11 November 2012			1/2/2012 7:20...	rwxr-xr-x	wcsdrc
12 Desember 2012			1/2/2012 7:20...	rwxr-xr-x	wcsdrc
ARCHIVE			1/2/2012 7:24...	rwxr-xr-x	wcsdrc

0 B of 0 B in 0 of 13

SFTP-3 0:08:09



DIS/PAN-04-01-00 : 12:01:00

2012 - wcsdrce131.100.55.153 - WinSCP

Local Mark Files Commands Session Options Remote Help

D:\Data Terupdate wCS\Operasional\2012

Name	Ext	Size	Type	Changed	Attr
..			Parent directory	5/16/2012 ...	
05_Mei			File Folder	5/16/2012 ...	
06_Juni			File Folder	5/16/2012 ...	

/home/wcsdrce131.100.55.153/2012

Name	Ext	Size	Changed	Rights	Owner
..			4/25/2012 4:21...	rwxrwxrwx	wcsdrce
01 Januari 2012			1/31/2012 7:25...	rwxr-xr-x	wcsdrce
02 Februari 2012			2/29/2012 8:11...	rwxr-xr-x	wcsdrce
03 Maret 2012			3/31/2012 10:0...	rwxr-xr-x	wcsdrce
04 April 2012			4/30/2012 2:18...	rwxr-xr-x	wcsdrce
05 Mei 2012			5/24/2012 7:38...	rwxr-xr-x	wcsdrce
06 Juni 2012			1/2/2012 7:19...	rwxr-xr-x	wcsdrce
07 Juli 2012			1/2/2012 7:19...	rwxr-xr-x	wcsdrce
08 Agustus 2012			1/2/2012 7:19...	rwxr-xr-x	wcsdrce
09 September 2012			1/2/2012 7:19...	rwxr-xr-x	wcsdrce
10 Oktober 2012			1/2/2012 7:20...	rwxr-xr-x	wcsdrce
11 November 2012			1/2/2012 7:20...	rwxr-xr-x	wcsdrce
12 Desember 2012			1/2/2012 7:20...	rwxr-xr-x	wcsdrce
ARCHIVE			1/2/2012 7:24...	rwxr-xr-x	wcsdrce

0 B of 0 B in 1 of 2

F2 Rename F4 Edit F5 Copy F6 Move F7 Create Directory F8 Delete F9 Properties F10 Quit

Operation Source Destination Transferred Time/Speed Progress

SFTP-3 0:09:18

24 - wcsdrce131.100.55.153 - WinSCP

Local Mark Files Commands Session Options Remote Help

D:\Data Terupdate wCS\Operasional\2012\05\_Mei\24

Name	Ext	Size	Type	Changed	Attr
..			Parent directory	5/24/2012 ...	
Backup Config Network			File Folder	5/24/2012 ...	
shift 1			File Folder	5/23/2012 ...	
shift 2			File Folder	5/23/2012 ...	
shift 3			File Folder	5/23/2012 ...	
(GTI-DRC) RPO DC with traffic Compression 240...	57,344	Microsoft Excel ...	5/24/2012 ...	a	
~lock_(GTI-DRC) RPO DC with traffic Compress...	140	XLS# File	5/24/2012 ...	ah	

/home/wcsdrce131.100.55.153/2012

Name	Ext	Size	Changed	Rights	Owner
..			4/25/2012 4:21...	rwxrwxrwx	wcsdrce
01 Januari 2012			1/31/2012 7:25...	rwxr-xr-x	wcsdrce
02 Februari 2012			2/29/2012 8:11...	rwxr-xr-x	wcsdrce
03 Maret 2012			3/31/2012 10:0...	rwxr-xr-x	wcsdrce
04 April 2012			4/30/2012 2:18...	rwxr-xr-x	wcsdrce
05 Mei 2012			5/24/2012 7:38...	rwxr-xr-x	wcsdrce
06 Juni 2012			1/2/2012 7:19...	rwxr-xr-x	wcsdrce
07 Juli 2012			1/2/2012 7:19...	rwxr-xr-x	wcsdrce
08 Agustus 2012			1/2/2012 7:19...	rwxr-xr-x	wcsdrce
09 September 2012			1/2/2012 7:19...	rwxr-xr-x	wcsdrce
10 Oktober 2012			1/2/2012 7:20...	rwxr-xr-x	wcsdrce
11 November 2012			1/2/2012 7:20...	rwxr-xr-x	wcsdrce
12 Desember 2012			1/2/2012 7:20...	rwxr-xr-x	wcsdrce
ARCHIVE			1/2/2012 7:24...	rwxr-xr-x	wcsdrce

0 B of 57,484 B in 1 of 6

F2 Rename F4 Edit F5 Copy F6 Move F7 Create Directory F8 Delete F9 Properties F10 Quit

Operation Source Destination Transferred Time/Speed Progress

SFTP-3 0:09:51



**DIS/PAN-04-01-00 : 12:01:00**

4. Untuk kolom FTP Server klik folder **root** → **ARCHIVE** → bulan → tanggal

The screenshot shows the WinSCP interface with two sessions open:

- Local Session (Left):** Path: E:\DATA. Contains files: BCN.tar, Cat 4500 A.tar, Cat 4500 B.tar, EX 8200 A.tar, EX 8200 B.tar, EX3200MIMX.tar, Jseries.tar, M10.tar, PP6000.tar.
- Remote Session (Right):** Path: /home/wcsdrcc. Contains files: root, .ssh, .bash\_history, .bash\_logout, .bashrc, examples.desktop, .profile.

Both sessions show file details like Name, Ext, Size, Changed, Rights, and Owner.

root - wcsdrcc131.100.55.153 - WinSCP

Local Mark Files Commands Session Options Remote Help

E: DATA

ENOPERASIONAL\2010\09\_September\10\Backup\Config\Network\Archive

Name	Ext	Size	Type	Changed	Attr
..			Parent directory	9/10/2010 5:43:31 AM	
BCN.tar	.tar	15,872	WinRAR archive	9/10/2010 5:39:36 AM	a
Cat 4500 A.tar	.tar	7,168	WinRAR archive	9/10/2010 5:39:55 AM	a
Cat 4500 B.tar	.tar	7,168	WinRAR archive	9/10/2010 5:40:14 AM	a
EX 8200 A.tar	.tar	15,872	WinRAR archive	9/10/2010 5:37:41 AM	a
EX 8200 B.tar	.tar	15,360	WinRAR archive	9/10/2010 5:42:47 AM	a
EX3200MMIX.tar	.tar	18,944	WinRAR archive	9/10/2010 5:40:39 AM	a
Jseries.tar	.tar	30,720	WinRAR archive	9/10/2010 5:41:10 AM	a
M10.tar	.tar	18,432	WinRAR archive	9/10/2010 5:41:29 AM	a
PP8600.tar	.tar	17,408	WinRAR archive	9/10/2010 5:41:51 AM	a

0 B of 143 KiB in 0 of 3

F2 Rename F4 Edit F5 Copy F6 Move F7 Create Directory F8 Delete F9 Properties F10 Quit

root

/home/wcsdrcc/root

Name	Ext	Size	Changed	Rights	Owner
..			7/30/2010 5:24...	rwxr-xr-x	wcsdrcc
ARCHIVE			9/1/2010 9:40...	rwxr-x--	wcsdrcc
bnn			9/1/2010 9:47...	rwxr-x--	wcsdrcc
cat45A			9/1/2010 9:49...	rwxr-x--	wcsdrcc
cat45B			9/1/2010 9:52...	rwxr-x--	wcsdrcc
EX200A			9/1/2010 9:54...	rwxr-x--	wcsdrcc
EX8200B			9/1/2010 9:55...	rwxr-x--	wcsdrcc
EXMMD32			9/1/2010 9:56...	rwxr-x--	wcsdrcc
Jseries			9/1/2010 9:57...	rwxr-x--	wcsdrcc
M10			9/8/2010 12:41...	rwxr-x--	wcsdrcc
PP8600			9/9/2010 8:42...	rwxr-x--	wcsdrcc
SRXA			9/8/2010 12:43...	rwxr-x--	wcsdrcc
SRXB			9/8/2010 12:43...	rwxr-x--	wcsdrcc

0 B of 0 B in 1 of 12

SFTP-3 04:51

start 8:29 AM



DIS/PAN-04-01-00 : 12:01:00

WinSCP Session: ARCHIVE - wcsdrc@131.100.55.153 - WinSCP

Local Mark Files Commands Session Options Remote Help

E:\#OPERASIONAL\2010\09\_September10\Backup Config Network Archive

Name	Ext	Type	Size	Changed	Attr
..		Parent directory		9/10/2010 5:43:31 AM	
BCN.tar		WinRAR archive	15,872	9/10/2010 5:39:36 AM	a
Cat 4500 A.tar		WinRAR archive	7,168	9/10/2010 5:39:55 AM	a
Cat 4500 B.tar		WinRAR archive	7,168	9/10/2010 5:40:14 AM	a
EX 8200 A.tar		WinRAR archive	15,872	9/10/2010 5:37:41 AM	a
EX 8200 B.tar		WinRAR archive	15,360	9/10/2010 5:42:47 AM	a
EX3200MMIX.tar		WinRAR archive	18,944	9/10/2010 5:40:39 AM	a
Series.tar		WinRAR archive	30,720	9/10/2010 5:41:10 AM	a
M10.tar		WinRAR archive	18,432	9/10/2010 5:41:29 AM	a
PP8600.tar		WinRAR archive	17,408	9/10/2010 5:41:51 AM	a

0 B of 143 KB in 0 of 9

F2 Rename F4 Edit F5 Copy F6 Move F7 Create Directory F8 Delete F9 Properties F10 Quit

File Explorer View Insert Tools Help

ARCHIVE

/home/wcsdrc/root/ARCHIVE

Name	Ext	Size	Changed	Rights	Owner
..			9/8/2010 6:05:...	rwxr-x---	wcsdrc
07 - Juli 2010			8/4/2010 9:34:...	rwxr-xr-x	wcsdrc
08 - Agustus 2010			8/17/2010 8:21:...	rwxr-xr-x	wcsdrc
09 - September 2010			9/9/2010 8:33:...	rwxr-xr-x	wcsdrc

0 B of 0 B in 1 of 3

File Explorer View Insert Tools Help

start Micro... IDC - Out... Micro... Notepad Graphs > ... Tera Te... Traffic Anal... Backup Con... ARCHIVE 8:29 AM

SFTP-3 0:05:04

WinSCP Session: 09 - September 2010 - wcsdrc@131.100.55.153 - WinSCP

Local Mark Files Commands Session Options Remote Help

E:\#OPERASIONAL\2010\09\_September10\Backup Config Network Archive

Name	Ext	Type	Size	Changed	Attr
..		Parent directory		9/10/2010 5:43:31 AM	
BCN.tar		WinRAR archive	15,872	9/10/2010 5:39:36 AM	a
Cat 4500 A.tar		WinRAR archive	7,168	9/10/2010 5:39:55 AM	a
Cat 4500 B.tar		WinRAR archive	7,168	9/10/2010 5:40:14 AM	a
EX 8200 A.tar		WinRAR archive	15,872	9/10/2010 5:37:41 AM	a
EX 8200 B.tar		WinRAR archive	15,360	9/10/2010 5:42:47 AM	a
EX3200MMIX.tar		WinRAR archive	18,944	9/10/2010 5:40:39 AM	a
Series.tar		WinRAR archive	30,720	9/10/2010 5:41:10 AM	a
M10.tar		WinRAR archive	18,432	9/10/2010 5:41:29 AM	a
PP8600.tar		WinRAR archive	17,408	9/10/2010 5:41:51 AM	a

0 B of 143 KB in 0 of 9

F2 Rename F4 Edit F5 Copy F6 Move F7 Create Directory F8 Delete F9 Properties F10 Quit

File Explorer View Insert Tools Help

09 - September 2010

/home/wcsdrc/root/ARCHIVE/09 - September 2010

Name	Ext	Size	Changed	Rights	Owner
..			9/1/2010 9:40:...	rwxr-x---	wcsdrc
01092010			9/4/2010 12:26:...	rwxr-x---	wcsdrc
02092010			9/4/2010 12:26:...	rwxr-x---	wcsdrc
03092010			9/4/2010 12:00:...	rwxr-x---	wcsdrc
04092010			9/5/2010 11:31:...	rwxr-x---	wcsdrc
05092010			9/5/2010 11:31:...	rwxr-x---	wcsdrc
06092010			9/6/2010 9:39:...	rwxr-x---	wcsdrc
07092010			9/7/2010 8:45:...	rwxr-x---	wcsdrc
08092010			9/8/2010 12:38:...	rwxr-x---	wcsdrc
09092010			9/9/2010 8:32:...	rwxr-x---	wcsdrc
10092010			9/1/2010 9:46:...	rwxr-x---	wcsdrc
11092010			9/9/2010 8:32:...	rwxr-xr-x	wcsdrc
12092010			9/9/2010 8:33:...	rwxr-xr-x	wcsdrc
13092010			9/9/2010 8:33:...	rwxr-xr-x	wcsdrc
14092010			9/9/2010 8:33:...	rwxr-xr-x	wcsdrc
15092010			9/9/2010 8:33:...	rwxr-xr-x	wcsdrc

0 B of 0 B in 1 of 15

File Explorer View Insert Tools Help

start Micro... IDC - Out... Micro... Notepad Graphs > ... Tera Te... Traffic Anal... Backup Con... 09 - Septe... 8:29 AM

SFTP-3 0:05:15



DIS/PAN-04-01-00 : 12:01:00

5. Untuk kolom daerah PC WCS DRC dalam folder archive , block semua file format . tar

The screenshot shows the WinSCP interface with two panes. The left pane displays a local directory structure on drive E, specifically the path E:\#OPERASIONAL\2010\09\_September\10\Backup\Config\Network\Archive. It lists several files, mostly WinRAR archives (tar files), with sizes ranging from 7,168 to 15,872 bytes. The right pane shows a remote directory at /home/wcsdrc/root/ARCHIVE/09 - September 2010/10092010, which contains no files.

6. Kemudian drag file tersebut ke kolom daerah FTP Server

The screenshot shows the WinSCP interface again, but this time a 'Copy' dialog box is open over the main WinSCP window. The dialog box is asking for a remote directory to copy files to, with the path /home/wcsdrc/root/ARCHIVE/09 - September 2010/10092010 selected. Below the dialog, the main WinSCP interface shows the same local and remote directory structures as the previous screenshot. The bottom status bar indicates the session is active with SFTP-3 and the time is 06:02.



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Archive - wcsdrc@131.100.55.153 - WinSCP

E:\DATA\OPERASIONAL\2010\09\_September\0\Backup\Config\Network\Archive

Name	Ext	Size	Type	Changed	Attr
..			Parent directory	9/10/2010 5:43:31 AM	
BCN.tar		15,872	WinRAR archive	9/10/2010 5:39:36 AM	a
Cat 4500 A.tar		7,168	WinRAR archive	9/10/2010 5:39:55 AM	a
Cat 4500 B.tar		7,168	WinRAR archive	9/10/2010 5:40:14 AM	a
EX 8200 A.tar		15,872	WinRAR archive	9/10/2010 5:37:41 AM	a
EX 8200 B.tar		15,360	WinRAR archive	9/10/2010 5:42:47 AM	a
EX3200MMIX.tar		18,944	WinRAR archive	9/10/2010 5:40:39 AM	a
Jseries.tar		30,720	WinRAR archive	9/10/2010 5:41:10 AM	a
M10.tar		18,432	WinRAR archive	9/10/2010 5:41:29 AM	a
PP8600.tar		17,408	WinRAR archive	9/10/2010 5:41:51 AM	a

10092010

Name	Ext	Size	Changed	Rights	Owner
..			9/10/2010 8:33...	rwxr-xr-x	wcsdrc
BCN.tar		15,872	9/10/2010 5:39...	rw-r--r--	wcsdrc
Cat 4500 A.tar		7,168	9/10/2010 5:39...	rw-r--r--	wcsdrc
Cat 4500 B.tar		7,168	9/10/2010 5:40...	rw-r--r--	wcsdrc
EX 8200 A.tar		15,872	9/10/2010 5:37...	rw-r--r--	wcsdrc
EX 8200 B.tar		15,360	9/10/2010 5:42...	rw-r--r--	wcsdrc
EX3200MMIX.tar		18,944	9/10/2010 5:40...	rw-r--r--	wcsdrc
Jseries.tar		30,720	9/10/2010 5:41...	rw-r--r--	wcsdrc
M10.tar		18,432	9/10/2010 5:41...	rw-r--r--	wcsdrc
PP8600.tar		17,408	9/10/2010 5:41...	rw-r--r--	wcsdrc

0 B of 143 KB in 0 of 9

0 B of 143 KB in 0 of 9

F2 Rename F4 Edit F5 Copy F6 Move F7 Create Directory F8 Delete F9 Properties F10 Quit

start Micros... IDC - Outli... Micros... Notepad Graphs -> Tera Te... Traffic Anal... Backup Con... Archive - w... 8:30 AM

0:06:22

## 7. Setelah selesai melakukan FTP , close aplikasi WinSCP

wcsdrc - wcsdrc@131.100.55.153 - WinSCP

Session Options Remote Help

New Session... Ctrl+N

Duplicate Session

Saved Sessions

Opened Sessions

Save Session...

Disconnect Shift+Ctrl+D

wcsdrc

Name	Ext	Size	Changed	Rights	Owner
..			8/10/2010 1:43...	rwxr-xr-x	root
root		9/8/2010 6:05...	rw-r--r--	wcsdrc	
.ssh		3/10/2010 7:01...	rw-----	wcsdrc	
.bash_history		2,241	7/7/2010 11:17...	rw-----	wcsdrc
.bash_logout		220	1/2/2010 11:5...	rw-r--r--	wcsdrc
.bashrc		3,115	1/2/2010 11:5...	rw-r--r--	wcsdrc
examples.desktop		357	1/2/2010 11:5...	rw-r--r--	wcsdrc
.profile		675	1/2/2010 11:5...	rw-r--r--	wcsdrc

0 B of 14,548 B in 0 of 2

0 B of 6,608 B in 0 of 7

F2 Rename F4 Edit F5 Copy F6 Move F7 Create Directory F8 Delete F9 Properties F10 Quit

Terminate current session

start Micros... IDC - Outli... Micros... Notepad Graphs -> Tera Te... Traffic Anal... Backup Con... wcsdrc - wc... 8:34 AM



DIS/PAN-04-01-00 : 12:01:00

## BAB 7. ESKALASI MASALAH

Jika dalam monitoring jaringan ditemukan masalah maka operator WCS yang bertugas wajib untuk segera melakukan eskalasi kerusakan kepada pihak BRI, dalam hal ini Manager DRC atau Supervisor DRC, kemudian mengkonfirmasikan masalahnya dengan operator WCS di DC untuk kemudian dikonfirmasikan ke pihak OJK DC.

### 7.1 Event Log

Form “Event Log” ini tidak hanya mencatat masalah yang terjadi di DRC saja, tetapi mencatat semua masalah yang berhubungan dengan jaringan komunikasi DRC-DC maupun DRC-GTI

Berikut contoh form “Event Log”.

Microsoft Excel - Event Log 2012.xls									
No.	Case open (WITA)	Case Close (WITA)	Total Time	Caller Name	Caller Org	Call type	Product Name	Solution-Descriptions	Helpdesk-WCS
1				PT. WAHANA CIPTA SINATRIA Network System Integrator, Communications & Services Wisma Cormic Jl. Suryoprano No 1-9 Tel : 62-21-3501555 Fax : 62-21-3866128					
2	1/5/2012 14:00	1/5/2012 14:01	1 menit	Nugroho Pancayogo	TSI_ODR	Network	Catalyst 2950 Web-Ebank	Disable Port 41 switch rack 1 83 server HP1to Catalyst 2950 Web-Ebank Port 18	Wahyu N
3	1/5/2012 14:05	1/5/2012 14:06	1 menit	Nugroho Pancayogo	TSI_ODR	Network	Catalyst 2950 Web-Ebank	Disable Port 43 switch rack 1 83 server HP1to Catalyst 2950 Web-Ebank Port 6	Wahyu N
4	1/5/2012 15:05	1/5/2012 15:06	1 menit	Nugroho Pancayogo	TSI_ODR	Network	PP8600	Delete Ip Address di PP8600 Pool 3 Ip 66.0.0.250	Wahyu N
5	1/5/2012 16:00	1/5/2012 16:05	5 menit	Nugroho Pancayogo	TSI_ODR	Network	PP8600	Penarikan Kabel dari PP8600 Port 24 ke AS400 Ip 65.0.0.X via DTRA 119	Wahyu N
6	1/5/2012 16:06	1/5/2012 16:07	1 menit	Nugroho Pancayogo	TSI_ODR	Network	PP8600	Penarikan Kabel dari PP8600 Port 45 ke AS400 Ip 66.0.0.X via DTRA 18	Wahyu N
7	16/05/12 07:00	16/05/2012 10:00	3 jam	-	-	-	-	Waj 4 kompresi hanya 1x, setelah report ke DC lalu ditangani OJK kompresi kembali berjalan normal	Nugraha Pratama
8	24/05/12 14:00	24/05/12 14:30	30 menit	Nurdin	TSI_ODR	Network		Penarikan kabel dari EX6208 A Port 20 ke Catalyst 2950 Port 24 Koordinat P23	Nugraha Pratama
9	25/05/12 14:30	25/05/12 14:45	15 menit	IBM	IBM	Network	AS400	Telnet ke 172.18.254.100 dari pc ibm mengalami gangguan, setelah report ke OJK ternyata ada pengeringan di M10 GTI	Nugraha Pratama
10	28/05/12 03:38	28/05/12 04:13:00	35 Menit			Network	Network	Down Link STMI DRC-SUD via TELKOM	Ediyanto
11	28/05/12 05:26:40	28/05/12 05:27:04	24 detik			Network	Network	Flapping Link STMI DRC-SUD via TELKOM	Ediyanto
12	28/05/12 05:31:13	28/05/12 05:31:46	33 detik			Network	Network	Flapping Link STMI DRC-SUD via TELKOM	Ediyanto
13	28/05/12 06:00:06	28/05/12 06:00:41	35 detik			Network	Network	Flapping Link STMI DRC-SUD via TELKOM	Ediyanto
14	28/05/12 06:04:07	28/05/12 06:04:37	30 detik			Network	Network	Flapping Link STMI DRC-SUD via TELKOM	Ediyanto
15	28/05/12 06:13:11	28/05/12 06:13:42	31 detik			Network	Network	Flapping Link STMI DRC-SUD via TELKOM	Ediyanto
16	28/05/12 06:33:37	28/05/12 06:34:08	31 detik			Network	Network	Flapping Link STMI DRC-SUD via TELKOM Dari beberapa alarm yg muncul, hanya alarm UAS dan alarm Unequipped saja yang dapat menyebabkan flapping. Di sisi Cikupa (Jakarta ) terlihat ada beberapa kali 2 alarm tersebut muncul dengan durasi hitungan detik dan paling lama 9 menit. Adapun penyebab munculnya alarm tersebut dapat dikategorikan Bad Contact, Flapping Link STMI DRC-SUD via TELKOM	Ediyanto
17									
18									
19									
20									
21									
22									
23									

## 7.2 Email Notifikasi

Email Notifikasi ditujukan untuk menginformasikan sekaligus eskalasi untuk penanganan masalah yang berhubungan dengan link STM-1. Berikut ini contoh email notifikasi STM1:

Original Message -----

**From:** [dailydrc\\_wcs](#)

**To:** DC WCS ; [cs@iconpln.co.id](mailto:cs@iconpln.co.id)

**Cc:** [tsi\\_odr@bri.co.id](mailto:tsi_odr@bri.co.id); [tsi\\_CJK@bri.co.id](mailto:tsi_CJK@bri.co.id) ; [doni.arzinal@corp.bri.co.id](mailto:doni.arzinal@corp.bri.co.id); [dani.wf@corp.bri.co.id](mailto:dani.wf@corp.bri.co.id) ; [gunawan.amin@ipnetsolusindo.com](mailto:gunawan.amin@ipnetsolusindo.com); [anzhari.purnomo@ipnetsolusindo.com](mailto:anzhari.purnomo@ipnetsolusindo.com); [wildan.fauzi@ipnetsolusindo.com](mailto:wildan.fauzi@ipnetsolusindo.com) ; [johan@ipnetsolusindo.com](mailto:johan@ipnetsolusindo.com)

**Sent:** Wednesday, May 30, 2012 12:14 AM

**Subject:** Email Notifikasi : Link STM-1 DRC to GTI Down

Dear All,

berikut kronologis link STM-1 DRC to GTI Down

Log Problem DRC							
No	Date	Time	Link Status	Description		Timestamp	Notes
				Start	End		
2	2012-02 30/05/12	Link STM-1 DRC to GTI Down		Call to WCS DC (Eris), sedang diproses ke pihak icon+		15:12	15:20 Monitoring WCS DRC ( Nugraha), konfirmasi dengan WCS DC (Eris)
				Email konfirmasi dari pihak icon+ untuk link stm-1 sedang diproses untuk investigasi lebih lanjut		15:48	15:49 Monitoring WCS DRC ( Nugraha) dan WCS DC (Eris)
				Email konfirmasi dari pihak icon+ link down disebabkan adanya gangguan di POP Bojonegoro. Saat ini link terpantau normal.Tim WCS DRC dan WCS-DC tetap melakukan monitoring (Case Closed)		16:49	16:50 Monitoring WCS DRC ( Nugraha) dan WCS DC (Eris)

Hasil Capture M10 yang terlampir :

```
wcsdrc@cacti: ~
so-1/2/1           STM_TELKOM
so-1/2/1.0

admin@M10-GTI> show interfaces so-0/3/0
Physical interface: so-0/3/0, Enabled, Physical link is Down
  Interface index: 164, SNMP ifIndex: 725
  Description: STM_ICON_to_TBN
  Link-level type: PPP, MTU: 4474, Clocking: Internal, SDH mode, Speed: OC3,
  Loopback: None, FCS: 16, Payload scrambler: Enabled
  Device flags   : Present Running Down
  Interface flags: Hardware-Down Point-To-Point SNMP-Traps Internal: 0x4000
  Link flags    : Keepalives
  Keepalive settings: Interval 10 seconds, Up-count 1, Down-count 3
  Keepalive: Input: 734460 (00:59:50 ago), Output: 734486 (00:59:59 ago)
  LCP state: Down
  NCP state: inet: Down, inet6: Not-configured, iso: Not-configured, mpls: Down
  CHAP state: Closed
  PAP state: Closed
  CoS queues     : 4 supported, 4 maximum usable queues
  Last flapped   : 2012-05-30 13:10:52 WIT (00:59:50 ago)
  Input rate     : 0 bps (0 pps)
  Output rate    : 0 bps (0 pps)
  SDH alarms     : HP-AIS
  SDH defects    : HP-AIS
```

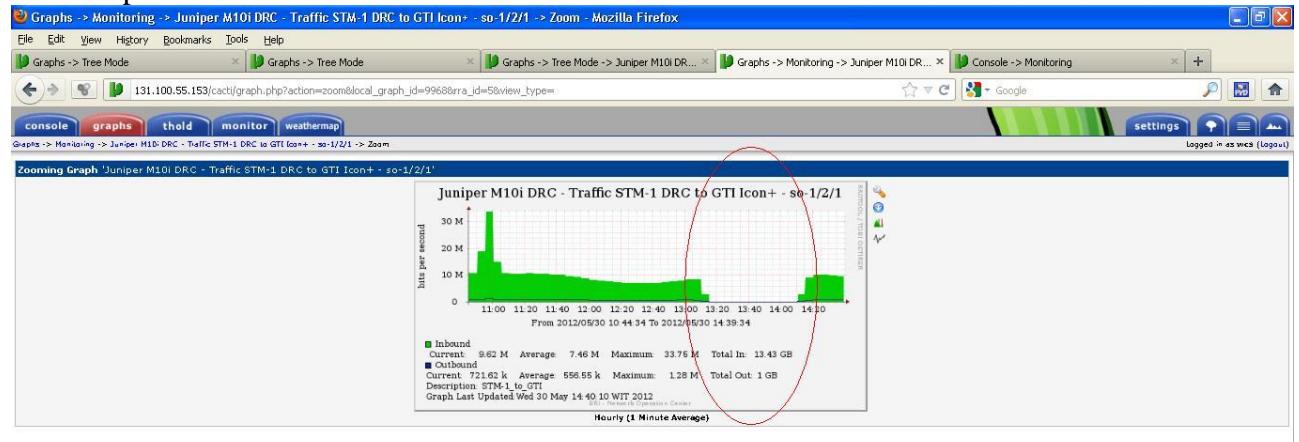
```
wcsdrc@cacti: ~
(realm ospf-v2 so-0/3/0.0 area 0.0.0.0) state changed from Full to Down due to KillNbr (event reason: interface went down)
May 30 13:10:52 M10-GTI rpd[1433]: RPD_RSVP_NBRDOWN: RSVP neighbor 192.168.2.10
down on interface so-0/3/0.0, triggered by IGP neighbor down event
May 30 13:10:52 M10-GTI rpd[1433]: RPD_MPLS_LSP_SWITCH: MPLS LSP TO_ROUTER_DRC
switch from primary(to-drc-direct) to secondary(to-drc-via-sud), Route 192.168.
3.1 192.168.3.10: lsp bandwidth 0 bps
May 30 13:10:53 M10-GTI rpd[1433]: RPD_MPLS_PATH_DOWN: MPLS path to-drc-direct
down on LSP TO_ROUTER_DRC
May 30 13:10:55 M10-GTI /kernel: so-0/3/0 link 0: Asserting SDH alarm(s) HP-AIS
May 30 13:11:12 M10-GTI rpd[1433]: RPD_LDP_SESSIONDOWN: LDP session 172.16.31.1
is down, reason: hold time expired
May 30 13:11:12 M10-GTI rpd[1433]: RPD_LAYER2_VC_DOWN: State of Layer 2 VC (Nei
ghbor : 172.16.31.1, VC-ID : 800) changed from UP to DELETED
May 30 13:11:12 M10-GTI rpd[1433]: RPD_LAYER2_VC_DOWN: State of Layer 2 VC (Nei
ghbor : 172.16.31.1, VC-ID : 910) changed from UP to DELETED
May 30 13:11:12 M10-GTI mib2d[1489]: SNMP_TRAP_LINK_DOWN: ifIndex 1068, ifAdmin
Status down(2), ifOperStatus down(2), ifName lsi.1049738
May 30 13:11:12 M10-GTI mib2d[1489]: SNMP_TRAP_LINK_DOWN: ifIndex 1066, ifAdmin
Status down(2), ifOperStatus down(2), ifName lsi.1049736
May 30 14:10:37 M10-GTI login: LOGIN_INFORMATION: User admin logged in from hos
t 131.100.55.153 on device tttyp1
May 30 14:13:17 M10-GTI rpd[1433]: RPD_MPLS_PATH_UP: MPLS path to-drc-direct up
on LSP TO_ROUTER_DRC path bandwidth 0 bps
May 30 14:13:18 M10-GTI /kernel: so-0/3/0 link 0: Clearing SDH alarm(s) HP-AIS
May 30 14:13:50 M10-GTI rpd[1433]: RPD_RSVP_NBRUP: RSVP neighbor 192.168.2.10 u
p on interface so-0/3/0.0
May 30 14:14:17 M10-GTI rpd[1433]: RPD_MPLS_LSP_SWITCH: MPLS LSP TO_ROUTER_DRC
switch from secondary(to-drc-via-sud) to primary(to-drc-direct), Route 192.168.
2.10: lsp bandwidth 0 bps
May 30 14:15:45 M10-GTI rpd[1433]: RPD_MPLS_PATH_DOWN: MPLS path to-drc-via-sud
down on LSP TO_ROUTER_DRC

admin@M10-GTI>
```



DIS/PAN-04-01-00 : 12:01:00

### Hasil Capture Cacti :



Regards

Nugraha Pratama  
WCS DRC



DIS/PAN-04-01-00 : 12:01:00

## BAB 8. JADWAL MA - WCS

### Jadwal WCS DRC

Juni 2012

Name	Shift	Tanggal																												Total				
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	Jaga	Lembur	
Nugraha	Shift 1	1		1	1	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	21	2		
	Shift 2																																	
	Shift 3																																	
Ediyanto	Total																															21	2	
	Shift 1		1																														1	1
	Shift 2	2	2						2	2								2	2														10	
Malvin	Shift 3		3	3					3	3							3	3															10	
	Total																															21	1	
	Shift 1								1								1																1	1
Yudi	Shift 2			2	2					2	2						2	2														10		
	Shift 3		3	3					3	3							3	3														10		
	Total																														21	1		

#### Keterangan

Shift I	=	08:00 - 17:00
Shift II	=	15:00 - 22:00
Shift III	=	22:00 - 08:00
	=	Sabtu, Minggu & Libur Nasional
	=	Lembur
	=	Tugas Jaga

Note :  
Hari kerja kantor = 21 hari

Tabanan, 30 Mei 2012

Mengetahui

Mengetahui

Nugraha Pratama  
WCS

Supervisor BRI



DIS/PAN-04-01-00 : 12:01:00

## LAMPIRAN

### A. Change Request MA – WCS

#### Change Request Form WCS



##### Requested by :

Name : Ref.# : 00X-MA/DRC/03/20XX  
Dept : Date received : XX/XX/20XX  
Phone: Date closed : XX/XX/20XX

Date Required : XX/XX/20XX

##### Change type :

Application     Software     Other (\*)  
 Hardware     Network     HOP

##### Change description :

##### Remarks :

##### Change Approval :

Bank Rakyat Indonesia

WCS Operation :

Requester :

-----  
Date : XX/XX/20XX

-----  
Date : XX/XX/20XX

-----  
Date : XX/XX/20XX

##### Review/Assessment Result :

-----  
\*) Please specify Change Request Form WCS



DIS/PAN-04-01-00 : 12:01:00

Requested by	: nama yang meminta request beserta departemen nya .
Ref.#	: nomor urutan pencatatan <b>XXX-MA/DRC/bulan/Tahun</b>
Date received	: tanggal request .
Date closed	: tanggal selesai melakukan pekerjaan diruang server DRC.
Change Type	: jenis perubahan yang terjadi dalam ruang server DRC.
Change Deskripsi	: keterangan perubahan yang dalam ruang server DRC.
Remarks	: penjelasan detail terhadap perubahan dalam ruang server DRC.

*Change Approval – Requester Manager* , ditanda tangani oleh Kabag DRC , sebelum Kabag melakukan penanda tanganan terlebih dahulu melakukan approval pada Spv BRI DRC yang sedang bertugas , kemudian aprroval dari Wakabag BRI DRC.

*WCS Operation* , ditanda tangani oleh Spv Team MA-WCS.



DIS/PAN-04-01-00 : 12:01:00

## B. Bentuk Berita Acara Serah Terima ID – Card MA - WCS

**BERITA ACARA  
SERAH TERIMA BADGE ID BRI  
NO. 013/BRI-DRC /IPNET-TECH/VIII/2010**

Tabanan, 31 Agustus 2010

Berdasarkan surat keputusan PT.Wahana Cipta Sinatria NO. 013/BRI-DRC /IPNET-TECH/VIII/2010 tertanggal 31 Agustus 2010, yang menyatakan bahwa Sdr. Gunawan ditempatkan di Gedung BRI DRC Bali untuk menggantikan Sdr. Dwi Agung Sumpeno , maka hari ini Selasa 31 Agustus 2010 dilakukan serah terima Badge ID BRI.

Yang menyerahkan	Yang menerima	#Badge ID

**Demikian berita acara ini kami sampaikan.**

Yang menyerahkan	Yang menerima
( ..... )	( ..... )
Mengetahui,	
( ..... ) Kabag/Wakabag -ODR	



DIS/PAN-04-01-00 : 12:01:00

## C. Bentuk Berita Acara Serah Terima Jabatan MA-WCS

### **BERITA ACARA SERAH TERIMA JABATAN** NO. /BRI-DRC/IPNET-TECH/VIII/20XX

Sehubungan dengan pelaksanaan Cuti tanggal ..... 20xx, maka yang bertanda tangan dibawah ini :

I. Nama :  
Jabatan : Team Leader WCS

Yang selanjutnya dalam Berita Acara Serah Terima ini disebut sebagai Pihak I (yang menyerahkan).

II. Nama :  
Jabatan : Team Support

Yang selanjutnya dalam Berita Acara Serah Terima ini disebut sebagai PIHAK II (yang menerima penyerahan).

1. Pada hari ini ..... , ..... 20xx PIHAK KE I menyerahkan tugas dan tanggung jawab Team Leader WCS DRC - Bali kepada PIHAK KE II.
2. Pihak ke II menerima tugas dan tanggung jawab Team Leader WCS DRC - Bali dari Pihak KE I.

Demikian Berita Acara Serah Terima Tugas ini dibuat dan ditanda tangani kedua belah pihak, dan selanjutnya untuk diketahui dan disampaikan kepada :

1. Masing-masing yang bersangkutan.

Tabanan, ..... 20xx

Yang menyerahkan	Yang menerima
( ..... )	( ..... )
<b>Mengetahui,</b>	
<b>( ..... )</b> <b>Kabag/Wakabag -ODR</b>	



**DIS/PAN-04-01-00 : 12:01:00**

#### **D. Bentuk Berita Acara Preventive Maintenance MA-WCS**

**BERITA ACARA**  
**PREVENTIVE MAINTENANCE PERANGKAT NETWORK DRC BRI**  
**NO. 004/BRI/WCS/III/2011**

Tabanan, 31 Maret 2011

Pada hari ini tanggal 31 Maret 2011 bertempat di BRI ODR Tabanan, Saya yang bertanda tangan dibawah ini :

Nama :  
Jabatan :  
Selanjutnya disebut **Pihak Pertama**.

Nama :  
Jabatan :  
Selanjutnya disebut **Pihak Kedua.**

**Pihak Pertama** menyerahkan Laporan Preventive Maintenance untuk periode bulan Januari – Maret 2011 ke **Pihak Kedua**. **Pihak kedua** menerima penyerahan Laporan Preventive Maintenance MA-WCS BRI – ODR untuk periode bulan Januari – Maret 2011 dari **Pihak Pertama**.

Berita Acara Serah Terima ini dibuat dan ditandatangani pada tanggal dan tahun tersebut di atas oleh kedua belah pihak.

Pihak Pertama	Pihak Kedua
(.....)	(.....)
Mengetahui,	
(.....)	(.....)



DIS/PAN-04-01-00 : 12:01:00

## E. Bentuk Berita Acara Laporan Bulanan



**BERITA ACARA**  
**SERAH TERIMA LAPORAN BULANAN**  
**NO. 015/BRI/WCS/V/2012**

Tabanan, 2 Mei 2012

**Pihak Pertama** menyerahkan Laporan Bulanan MA-WCS ODR untuk bulan April 2012 kepada **Pihak Kedua**. **Pihak kedua** menerima penyerahan Laporan Bulanan MA-WCS BRI – ODR untuk bulan April 2012 dari **Pihak Pertama**.

Berita Acara Serah Terima ini dibuat dan ditandatangani pada hari tanggal dan tahun tersebut di atas oleh kedua belah pihak.

Demikian Berita Acara ini dibuat agar dipergunakan sebagaimana mestinya.

<b>Pihak Pertama</b>	<b>Pihak Kedua</b>
<b><u>Nugraha Pratama</u></b> MA - WCS	<b><u>Nugroho Pancayogo</u></b> Wakabag - ODR
Mengetahui,	
<b><u>Maulana Yusuf</u></b> Kabag -ODR	



DIS/PAN-04-01-00 : 12:01:00

## F. Bentuk Checklist MA – WCS

### CHECKLIST WCS DRC

Shift :	Date :					
Checked by :	Time :					
<b>Device Name : BCN Firmware : 3.5.1.0</b>						
<b>BCN</b>						
Slot	Module	Indicator	CPU Utilization Slot 1: %	CPU Utilization Slot 2: %	CPU Utilization Slot 3: %	Remark
1	D100BT	Normal	Check	Problem description		
2	SONET/SDH	Power	Green			
3	10/100 Base TX	Run	Green			
7	SRM1	Boot	Off			
		Diag	Off			
<b>Back Panel</b>						
Slot	Module	Indicator	CPU Utilization Slot 1: %	Problem description	Remark	
1	D100BT	Fail	Off			
2	SONET/SDH	Fail	Off			
3	10/100 Base TX	Fail	Off			
7	SRM1	VCC	Green			
		12V1	Green			
		12V2	Green			
PSU-1	Power Supply	PSU-1	Green			
PSU-2	Power Supply	PSU-2	Green			
PSU-3	Power Supply	PSU-3	Green			
PSU-4	Power Supply	PSU-4	Green			
<b>Device Name : Juniper M10i</b>						
Slot	Module	Indicator	Status DS3 :	CPU Utilization Slot 0: %	Remark	
RE0/0	PICS module	Normal	Check	Problem description		
		Major	Off			
		Minor	Off			
		Pwr	Green			
RE0/1	PICS module	Master	Blue			
		Major	Off			
		Minor	Off			
		Pwr	Green			
RE0/0	RE-400	Master	Off			
		HDD	Off			
		Fail	Off			
		Master	Blue			
0/0	DS3	Online	Green			
0/1	Ethernet 10/100 Base-TX	TX RX port 0	Red		Module DS3	
		TX RX port 1	Green			
		Status	Green			
<b>Device Name : Juniper J6350</b>						
Slot	Module	Indicator	CPU Utilization :	%	Remark	
J6350		Normal	Check	Problem description		
		Power	Green			
		Alarm	Orange			
		Status	Green			
		HA	Off			
Slot	Module	Indicator	CPU Utilization :	%	Remark	
CTU/EI	PIM CTU/EI	Online	Check	Problem description		
<b>Back Panel</b>						
Slot	Module	Indicator	CPU Utilization :	%	Remark	
PSU 1	Power Supply	Status	Green			
PSU 2	Power Supply	Status	Green			
<b>Device Name : Passport 3600 Firmware : 3.5.1.0</b>						
Slot	Module	Indicator	CPU Utilization :	%	Remark	
1	8648T XE	Online	Green		Module Ethernet	
3	8608GBE	Online	Green		Module Fibre Optic	
		Online	Green			
5	8691SF/256	Power Supply 1	Green			
		Fan 1	Green			
		Fan 2	Green			
		Master	Off			
6	8691SF/256	Online	Green			
		Power Supply 1	Green			
		Fan 1	Green			
		Fan 2	Green			
		Master	Green			
PSU	Power Supply 1	PSU - 1	Green			
<b>Device Name : Juniper EX 3200</b>						
Indicator	Normal	Check	CPU Utilization EX Minix Slot 0: %	CPU Utilization EX B Slot 0: %	Remark	
		EX Minix	EX B	EX Minix	EX B	
Power	Green					
Alarm	Off					
SYS	Green					
MTS F	Green					
<b>Device Name : Baystack 5510 Firmware : 1.000.19</b>						
Indicator	Normal	Check	Problem description		Remark	
		User	RTGS	User	RTGS	
Power	Green					
Base	Off					
Up *	Off					
Down *	Off					



DIS/PAN-04-01-00 : 12:01:00

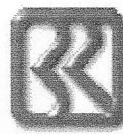
Device Name : Juniper EX 8208			CPU Utilization A Slot SRE 0 :		% CPU Utilization A Slot SRE1 :		CPU Utilization B Slot SRE 0 :		% CPU Utilization B Slot SRE1 :		%
			Indicator	Normal	Check		Problem description			Remark	
					A	B		A	B		
			Alarm	Red							
			SYS	Orange							
			MST	Green							
Slot	Module	Indicator	Normal		Check		Problem description			Remark	
0	EXR208 48T	ON	Green		A	B	A	B			
		ST	Green							Module Ethernet 48 T switch	
		ON	Green								
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DIS/PAN-04-01-00 : 12:01:00

## G. Contoh Change Request MA – WCS

Change Request Form WCS		
<b>Requested by :</b>		
Name : Nugroho Pancayogo Dept : TSI-OJK Phone:	Ref.# : 003-MA/DRC/01/2011 Date received : 23/01/2011 Date closed : 23/01/2011	
Date Required : 24/01/2011		
<b>Change type :</b>		
<input type="checkbox"/> Application <input type="checkbox"/> Hardware	<input type="checkbox"/> Software <input type="checkbox"/> Network	<input checked="" type="checkbox"/> Other (*) <input type="checkbox"/> HOP
<b>Change description :</b>		
Terkait di pindahannya koneksi dari Router AIM-VPN dan Baystack 5510 Pihak Ke-3 ke Firewall Checkpoint maka dilakukan update Topologi terbaru DRC		
<b>Remarks :</b>		
Before : Checkpoint port LAN 3 115.0.4.2/24 to Baystack 5510 RTGS port 6 115.0.4.1/24 Baystack 5510 RTGS port 5 115.0.4.1/24 to Router AIM-VPN FE 0/0		
After : Checkpoint port LAN 1 115.0.5.1/24 to Baystack 5510 RTGS port 6 115.0.5.2/24 Checkpoint port LAN 3 115.0.4.1/24 to Router AIM-VPN FE 0/0		
<b>*Topologi update terlampir</b>		
<b>Change Approval :</b> Bank Rakyat Indonesia /	<b>WCS Operation :</b> 	<b>Requester</b>
Warjito	Wildan Fauzi	Nugroho Pancayogo
Date : 24/01/2011	Date : 24/01/2011	Date : 24/01/2011
<b>Review/Assessment Result :</b>  _____ _____ _____		
*) Please specify		



**BERITA ACARA  
PENGESAHAN HOP WCS  
NO. 033/BRI /WCS/X/2012**

**Tabanan, 01 Oktober 2012**

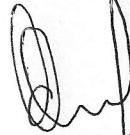
Pada hari ini tanggal 01 Oktober 2012 bertempat di BRI ODR Tabanan, Saya yang bertanda tangan dibawah ini :

Nama : **Nugraha Pratama**  
Jabatan : **Team Leader MA-WCS**  
Selanjutnya disebut **Pihak Pertama**.

Nama : **Nugroho Pancayogo**  
Jabatan : **Pj Wakabag - BRI ODR**  
Selanjutnya disebut **Pihak Kedua**.

Pihak Pertama menyerahkan pengesahan HOP WCS DRC dengan No.DIS/PAN-04-01-00 : 12:01:00 ke Pihak Kedua.. Pihak kedua menerima pengesahan HOP WCS DRC dengan No.DIS/PAN-04-01-00 : 12:01:00 dari Pihak Pertama.

Berita Acara Serah Terima ini dibuat dan ditandatangani pada hari tanggal dan tahun tersebut di atas oleh kedua belah pihak.

Pihak Pertama	Pihak Kedua
 <b>Nugraha Pratama</b> MA - WCS	 <b>Nugroho Pancayogo</b> Pj Wakabag - ODR
<b>Mengetahui,</b>	
	 <b>Maulana Yusuf</b> Kabag -ODR