

DAFTAR ISI

DAFTAR ISI	I
-------------------	----------

BAB 1. PENDAHULUAN

1.1 Tujuan	1
1.2 Pemakai	1
1.3 Pengontrolan Versi	1
1.3.1. Penjelasan Nomor Versi Dokumen	1
1.3.2. Perubahan Pada Dokumen	2
1.3.3. Penjelasan Perubahan Isi	3

BAB 2. UMUM

2.1 Overview	5
2.2 Maintenance & Operasional Konektivitas Jaringan LAN-DRC	7
2.3 Maintenance & Operasional Konektivitas Jaringan DC-DRC	7
2.4 Sistem Reporting	8
2.5 Network Diagram LAN-DRC	9

BAB 3. PROSEDUR OPERASIONAL

3.1 Monitoring Perangkat Network Switching	10
3.1.1. Nortel Passport 8600	10
3.1.1.1 LED Indikator Module Passport 8600	11
3.1.1.2 Melihat Performance Passport 8600	12
3.1.1.3 Melihat Kecepatan (Speed) dari Port Ethernet Passport 8600	13
3.1.1.4 Melihat Traffic Error	13
3.1.1.5 Melihat Port yang Aktif dan Non-aktif	15
3.1.1.6 Melihat IP VLAN	15
3.1.1.7 Melihat Nama VLAN	16
3.1.1.8 Melihat Port Anggota VLAN	16
3.1.1.9 Melihat Static Route	17

3.1.2. Juniper EX8200	18
3.1.2.1 Melihat IP Interfaces	18
3.1.2.2 Melihat Status Interface	19
3.1.2.3 Melihat Konfigurasi Yang Sedang Berjalan	19
3.1.2.4 Melihat Routing	20
3.1.3. Nortel Baystack 5530 dan Baystack 5510	21
3.1.3.1 LED Indikator BayStack 5530 dan Baystack 5510	22
3.1.3.2 Melihat IP VLAN	23
3.1.3.3 Melihat VLAN	23
3.1.3.4 Melihat Routing Table	24
3.1.3.5 Melihat Static Route	25
3.1.3.6 Melihat Status Interface	25
3.1.3.7 Melihat ARP	26
3.1.4. Juniper EX3200	26
3.1.5.1 Melihat IP Interfaces	27
3.1.5.2 Melihat Status Interface	28
3.1.5.3 Melihat Konfigurasi Yang Sedang Berjalan	28
3.1.5.4 Melihat Routing	29
3.1.5. BCN	30
3.1.7.1 LED Indikator Status Panel Depan	31
3.1.7.2 Melihat Status CPU Utilisasi	32
3.1.7.3 Melihat Memori yang Terpakai	32
3.1.7.4 Melihat IP Interface	33
3.1.7.5 Melihat Static-Route	33
3.1.7.6 Melihat Routing	34
3.1.6. Juniper J6350	34
3.1.8.1 Melihat Chassis Hardware	35
3.1.8.2 Melihat Konfigurasi Yang Sedang Berjalan	35
3.1.8.3 Melihat CPU Utilisasi	36
3.1.8.4 Melihat IP Interfaces	37
3.1.8.5 Monitor Interfaces	37
3.1.8.6 Monitor Traffic Interfaces	37
3.1.8.7 Melihat Alarm	37

3.1.8.8 Melihat Waktu Aktif Perangkat	37
3.1.8.9 Melihat Suhu Perangkat	37
3.1.8.10 Melihat Status Suhu dan Status Fan	38
3.1.8.11 Melihat Status Interface	38
3.1.8.12 Melihat Interface Ethernet Secara Spesifik	38
3.1.8.13 Melihat Routing	38
3.1.8.14 Melihat ARP	39
3.1.8.15 Melihat Log Messages	39
3.1.7. Juniper M10i	40
3.1.9.1 Melihat Versi Perangkat	41
3.1.9.2 Melihat ARP	41
3.1.9.3 Melihat Konfigurasi Yang Sedang Berjalan	42
3.1.9.4 Melihat Routing	42
3.1.9.5 Melihat Status Interface	51
3.1.9.6 Melihat Interface Routing-Instance	43
3.1.9.7 Melihat CPU Utilisasi	44
3.1.9.8 Melihat OSPF Neighbor	45
3.1.9.9 Melihat OSPF Route	45
3.1.9.10 Melihat OSPF Interface	46
3.1.9.11 Melihat OSPF Database	46
3.1.9.12 Melihat MPLS Interface	47
3.1.9.13 Melihat MPLS LSP	47
3.1.9.14 Melihat Log Messages	47
3.1.10. Juniper SRX 3400	48
3.1.10.1 Melihat Versi Perangkat	48
3.1.10.2 Melihat Konfigurasi Yang Sedang Berjalan	48
3.1.10.3 Melihat CPU Utilisasi	50
3.1.10.4 Melihat Status Interface	51
3.1.10.5 Melihat Security Zones	52
3.1.10.6 Melihat Security Policies	53
3.1.10.7 Melihat Routing	54
3.1.10.8 Melihat OSPF Neighbor	55
3.1.10.9 Melihat OSPF Interface	55



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

3.1.10.10 Melihat OSPF Route	55
3.1.10.11 Melihat OSPF Database	56
3.1.10.12 Melihat Log Messages	56
3.2 Membuat Daily Report	57
3.3 Mengisi Ceklis Harian BRI	68
3.4 Capture Traffic RPO with Compression	72
3.5 Disaster Recovery	77

BAB 4. *COMMAND LINE PERANGKAT NETWORK*

4.1 Nortel Passport 8600	78
4.2 Juniper EX8200	80
4.3 Nortel Baystack 5510	83
4.4 Juniper EX3200	85
4.6 BCN	86
4.7 Juniper M10i	88

BAB 5. *REQUEST DAILY OPERATIONAL*

5.1 Update Layout Ruang Server	92
5.2 Update Mapping Server	93
5.3 Update Data DTRA Patch Panel	94
5.4 Update Data Detail Perangkat Network	95
5.5 Update Gambar Network DRC	96
5.6 Update Gambar Visualisasi Perangkat	97



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

BAB 6. CARA MELAKUKAN <i>FTP BACKUP CONFIGURATION</i>	98
BAB 7. ESKALASI MASALAH	
7.1 Log Problem	107
7.2 Email Notifikasi	108
BAB 8. JADWAL MA – WCS	111
LAMPIRAN	
A. Bentuk Change Request MA-WCS	112
B. Bentuk Berita Acara Serah Terima ID-Card MA-WCS	114
C. Bentuk Berita Acara Serah Terima Jabatan MA-WCS	115
D. Bentuk Berita Acara Perventif maintenance	116
E. Bentuk Berita Acara Laporan Bulanan	117
F. Bentuk Checklist MA-WCS	118
G. Contoh Change Request	120

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">▪ 72 Poin Penambahan Sub-Judul, 3 Poin Penambahan Judul dan 1 Poin Penambahan Halaman Lampiran▪ 8 Poin Perubahan Poin dan Sub-Judul, 6 Poin Perubahan Poin Sub-Judul dan 2 Poin Perubahan Judul BAB <p>b. Perubahan Isi :</p> <ul style="list-style-type: none">▪ 1 Poin Perubahan Isi▪ 17 Poin Penghapusan Sub-Judul	
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	

1.3.3 Penjelasan Perubahan Isi

Penjelasan Perubahan Isi	
No	DIS/PAN-11-00-01: 12:00:01, 1 Juni 2012
1	<p>Penambahan isi: BAB.2 UMUM point 2.1 Perubahan isi sub-judul: Bab.2 UMUM point 2.1 Overview Perubahan isi sub-bab yang sebelumnya menjelaskan tentang link E1 menjadi link STM-1 Perubahan gambar link E1 menjadi link triangle STM-1 Perubahan isi sub-judul: Bab.2 UMUM point 2.5 Network Diagram LAN-DRC Update topologi LAN DRC ver2.0 Penghapusan isi sub-judul: Bab.2 UMUM point 2.3 Passport 7400</p>
2	<p>Perubahan isi BAB.3 PROSEDUR OPERASIONAL Penghapusan point 3.1.4 Juniper EX4200 Penghapusan point 3.1.6 Nortel Passport 7400 Penghapusan point 3.2 MRTG Perubahan point 3.3 Membuat Daily Report Penambahan Tab untuk capture EX3200 L2VPN DRC CPU Utilization Penghapusan isi point 3.5 Capture Traffic (RPO) No. 5 Traffic NetApp EX3200 Port 28 No. 10 Traffic EX3200 port 16 No. 16 untuk Traffic E1 diganti Traffic STM-1 DRC to GTI</p>
3	<p>Perubahan isi : Bab.4 COMMAND LINE PERANGKAT NETWORK Penghapusan point 4.5 Nortel Passport 7400</p>
4	<p>Perubahan isi : Bab.7 ESKALASI MASALAH Perubahan sub-judul: BAB.7 ESKALASI MASALAH point 7.1 Log Problem Sub-judul 7.1 Log Problem diubah menjadi Sub-judul 7.1 Event Log Perubahan isi sub-judul: BAB.7 ESKALASI MASALAH point 7.2 Email Notifikasi Contoh email notifikasi yang sebelumnya ditujukan untuk menginformasikan status koneksi E1, sekarang diganti menjadi contoh email notifikasi untuk status link STM-1</p>



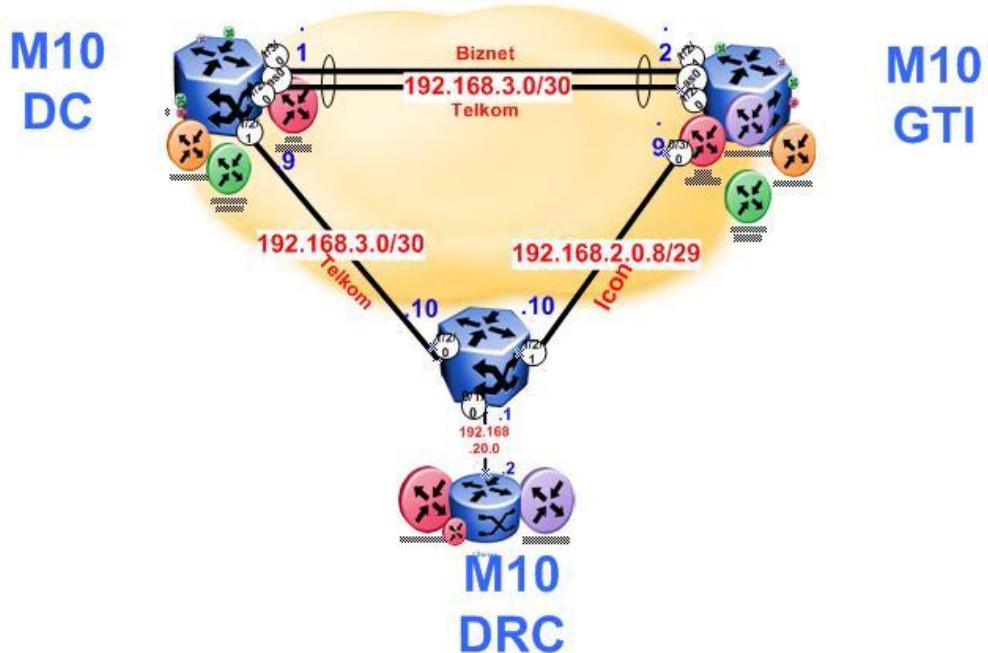
DIS/PAN-04-01-00 : 12:00:01

5	<p>Perubahan isi : LAMPIRAN</p> <p>Perubahan point E. Bentuk Berita Acara Laporan Bulanan</p> <p>Bentuk Berita Acara Laporan Bulanan diganti dengan format yang baru dengan menambahkan kolom untuk Kabag-ODR</p> <p>Perubahan point F. Bentuk Checklist MA-WCS</p> <p>Bentuk Checklist MA-WCS diganti dengan format baru dengan menghilangkan kolom Passport 7400</p>
---	---

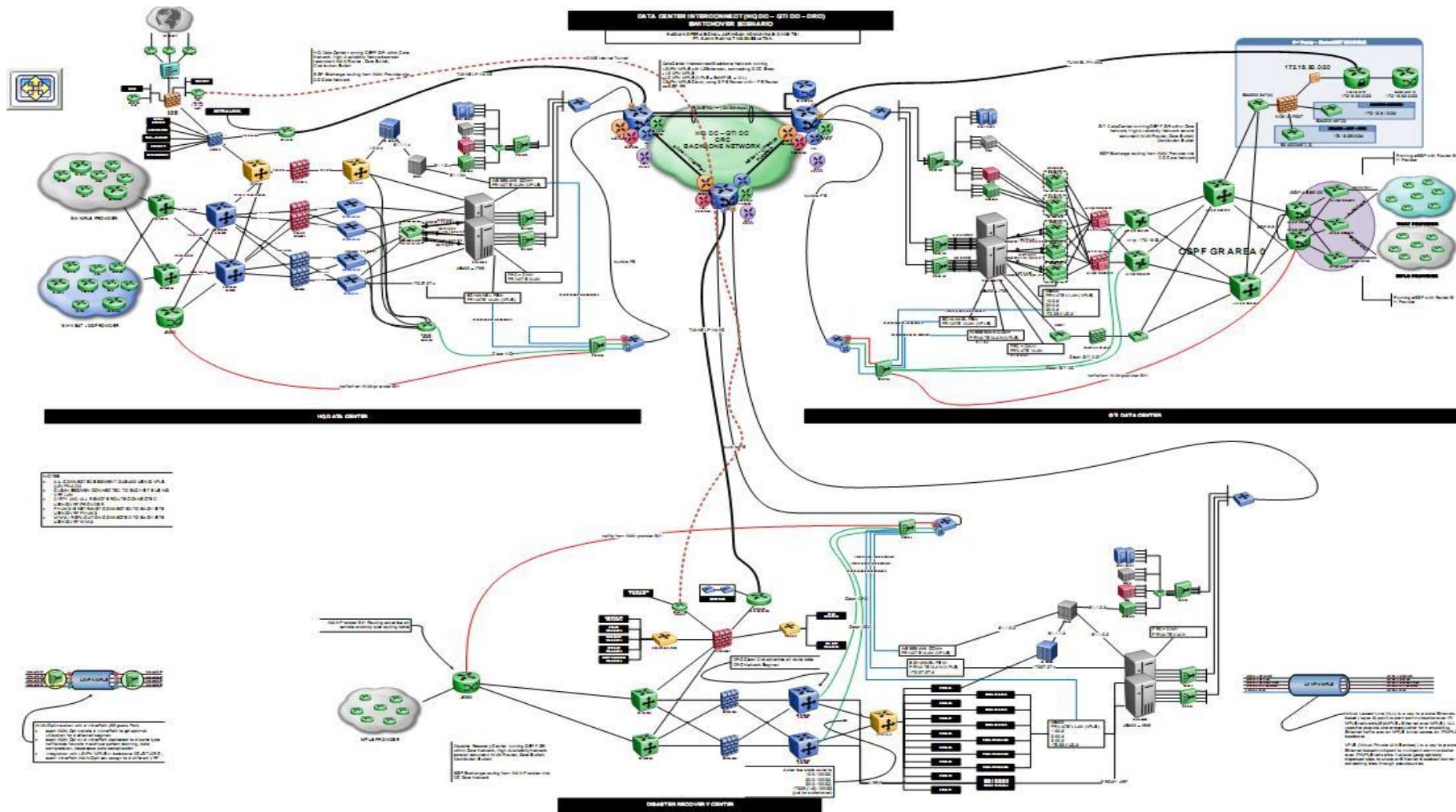
BAB 2. UMUM

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+ .



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 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).



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

2.4 Sistem Reporting.

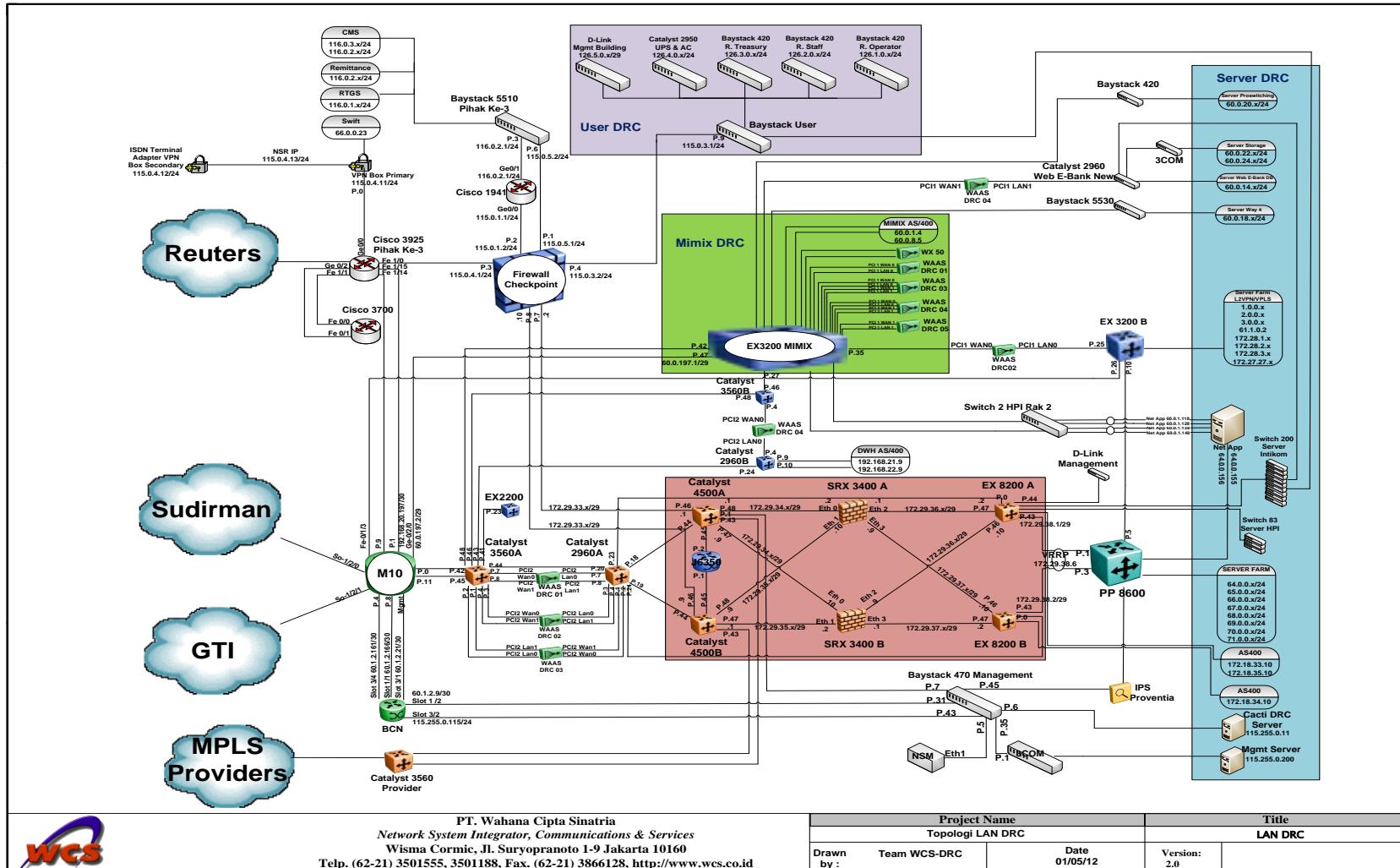
Laporan Harian (*Daily Report*)

Laporan Harian dibuat setiap hari dengan format ekstensi doc dan dikirim melalui email ke dailyops_wcs@bri.co.id dan di copy carbon (cc) ke tsi_odr@bri.co.id; agoeng@bri.co.id; dani.wf@corp.bri.co.id; 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 ; dani.wf@corp.bri.co.id dan di copy carbon (cc) ke tsi_odr@bri.co.id ; johan@ipnetsolusindo.com

2.5 Network Diagram LAN-DRC

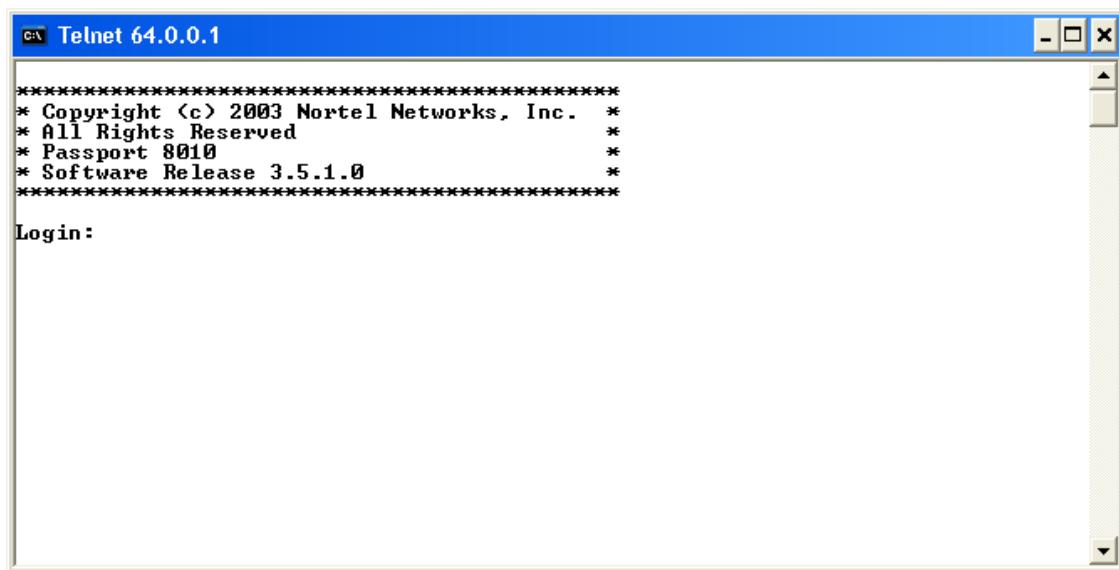


BAB 3. PROSEDUR OPERASIONAL

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.

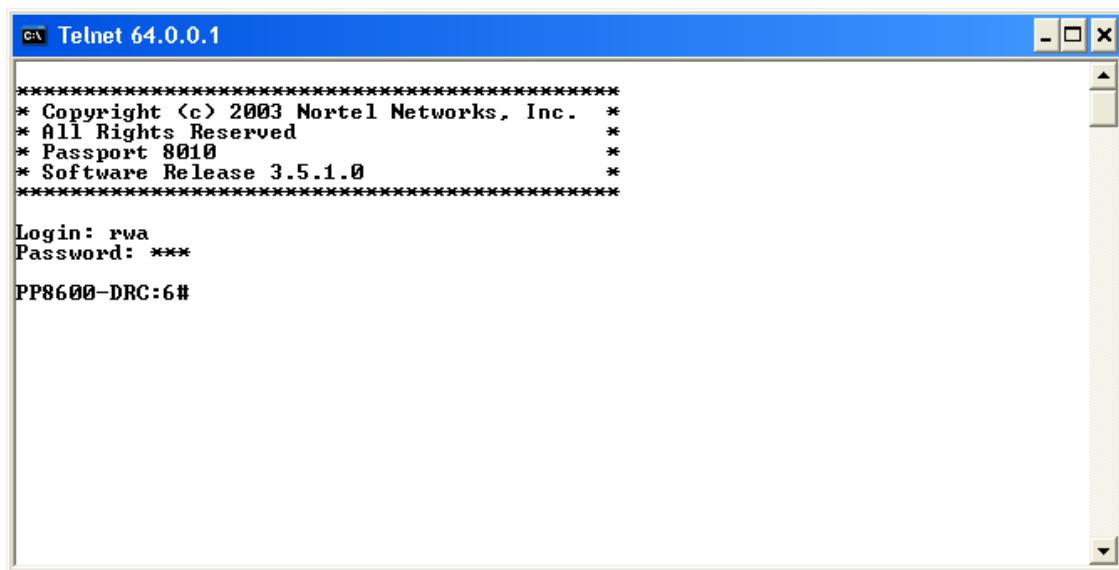


A screenshot of a Windows Telnet window titled "Telnet 64.0.0.1". The window displays the following text:

* 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
	Hijau (<i>blinking</i>)	Port menerima paket masuk
TX	Off	Port tidak terdeteksi
	Orange	Line fault atau perangkat remote
	Hijau (<i>blinking</i>)	Port transmit data
On-line	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
```

```

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.   DUPLEX SPD    DUPLEX SPD   EN      TYPE
-----  -----  -----  -----  -----  -----  -----  -----
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)

```



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

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#
```



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

3.1.1.7 Melihat Nama VLAN

Command :

PP8600-DRC:6# show vlan info basic

The screenshot shows a Telnet window titled "Telnet 64.0.0.1". The command entered is "PP8600-DRC:6# show vlan info basic". The output displays a table titled "Vlan Basic" with the following data:

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

The screenshot shows a Telnet window titled "Telnet 64.0.0.1". The command entered is "PP8600-DRC:6# show vlan info port". The output displays two tables: "Vlan Port" and "Vlan ATM VPort".

Vlan Port

VLAN ID	PORT 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

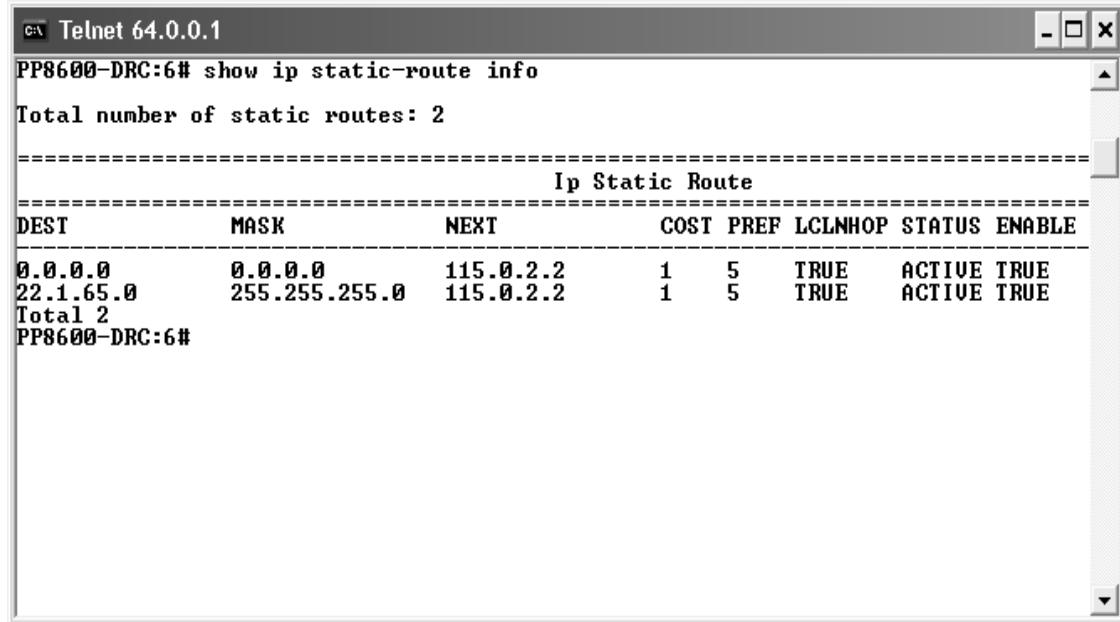
VLAN ID	PORT NUM	PVC LIST

--More-- (q = quit)

3.1.1.9 Melihat Static Route

Command :

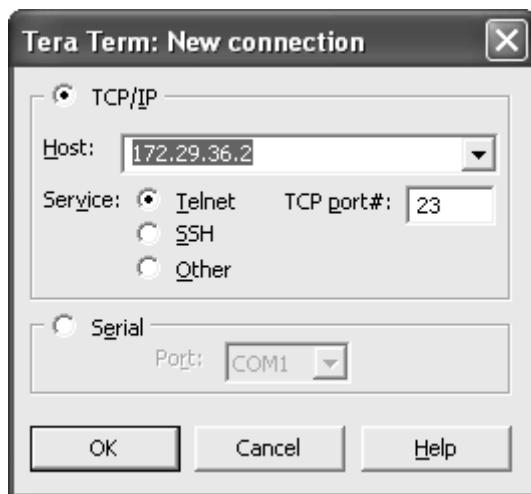
PP8600-DRC:6# show ip static-route info



```
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

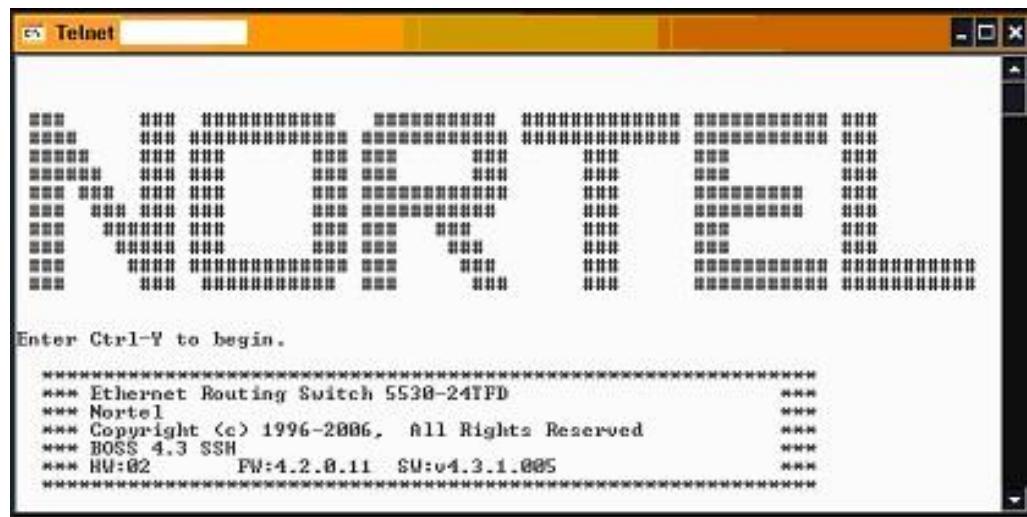
Command :

```
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

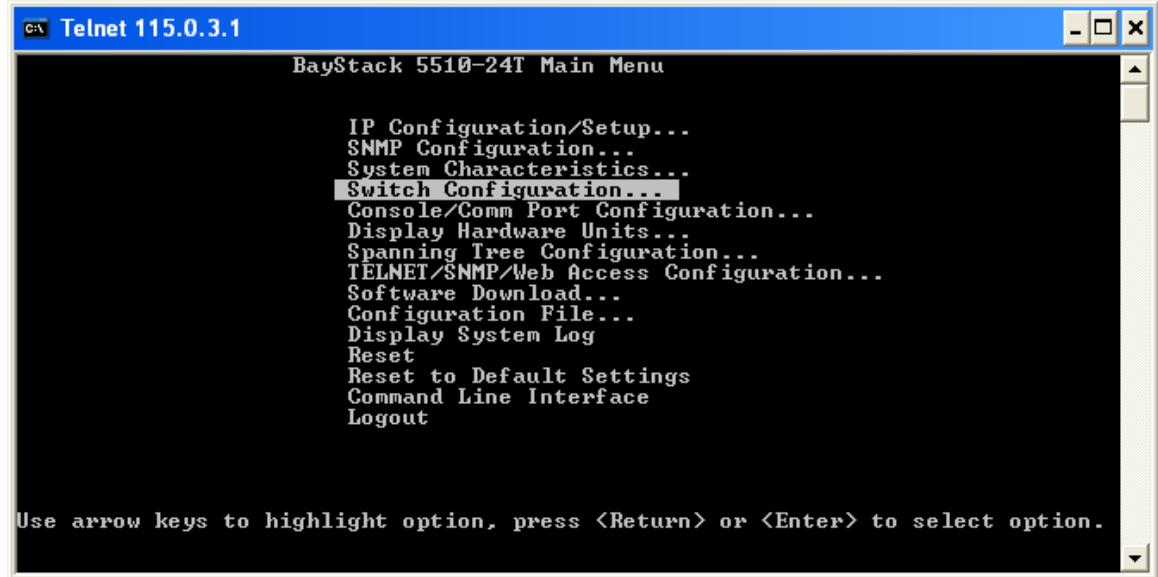
Label	Warna/Status	Deskripsi
Power On	Hijau Off	Dapat tegangan listrik Tidak dapat tegangan listrik
Setelah 20 detik dari saat power on	Hijau Off	Power on self-test complete dan switch bekerja normal Switch gagal melakukan self-test
Base	Hijau Orange Off	Switch adalah base unit Stack error Switch bukan 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						



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

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	LinkTrap	Negotiation	Speed	Duplex
1		Enable	Down	Down	Enabled	Enabled		
2		Enable	Up	Up	Enabled	Enabled	1000Mbps	Full
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
13		Enable	Up	Up	Enabled	Enabled	1000Mbps	Full
14		Enable	Down	Down	Enabled	Enabled		
15		Enable	Up	Up	Enabled	Enabled	1000Mbps	Full
16		Enable	Up	Up	Enabled	Enabled	1000Mbps	Full
17		Enable	Up	Up	Enabled	Enabled	100Mbps	Full
18		Enable	Up	Up	Enabled	Enabled	1000Mbps	Full
19		Enable	Up	Up	Enabled	Enabled	1000Mbps	Symm

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

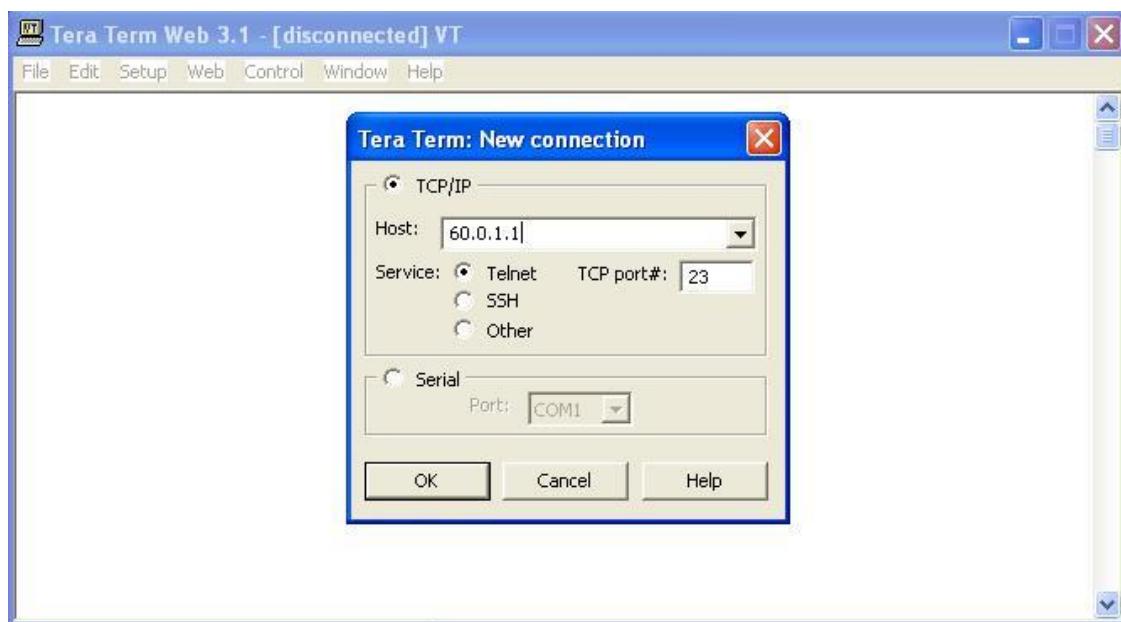
3.1.3.7 Melihat ARP

BS5510-DRC#*show ip arp*

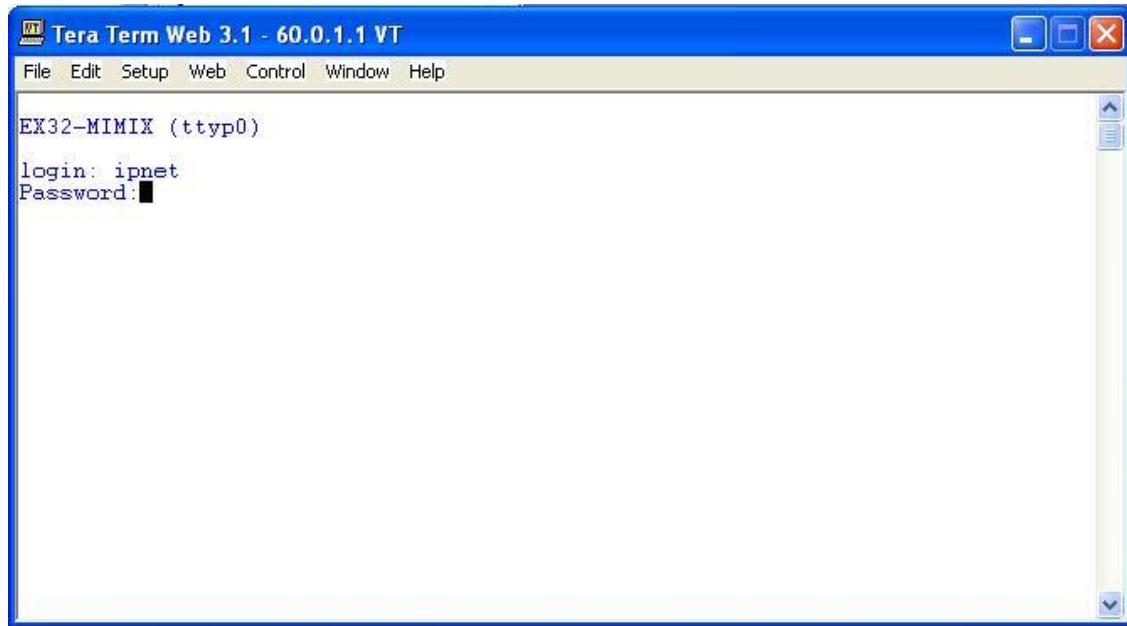
IP Address	Age (min)	MAC Address	VLAN-Port/Trunk	Flags
126.1.0.255	0	ff:ff:ff:ff:ff:ff	VLAN#2	LB
126.2.0.255	0	ff:ff:ff:ff:ff:ff	VLAN#3	LB
126.3.0.255	0	ff:ff:ff:ff:ff:ff	VLAN#4	LB
115.0.3.255	0	ff:ff:ff:ff:ff:ff	VLAN#5	LB
126.4.0.255	0	ff:ff:ff:ff:ff:ff	VLAN#6	LB
126.5.0.7	0	ff:ff:ff:ff:ff:ff	VLAN#7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

```



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

```
        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
```



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

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
Copyright 1992,1993,1994,1995,1996,1997,1998,1999,2000,2001,2002,2003
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

```

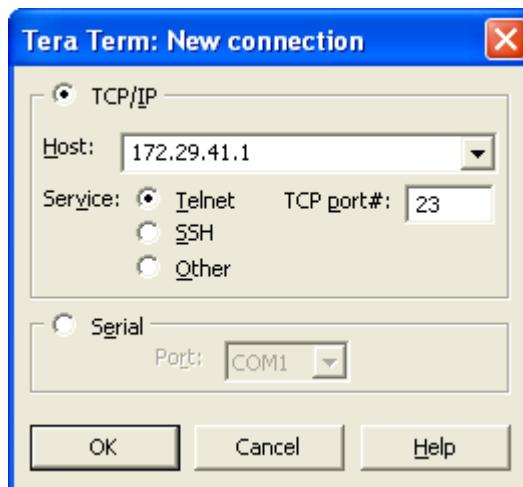
Telnet 115.0.1.1
bcc> show ip route
show ip routes
Jul 06, 2007 02:54:26 [GMT]

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 : 12:00:01

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]
```

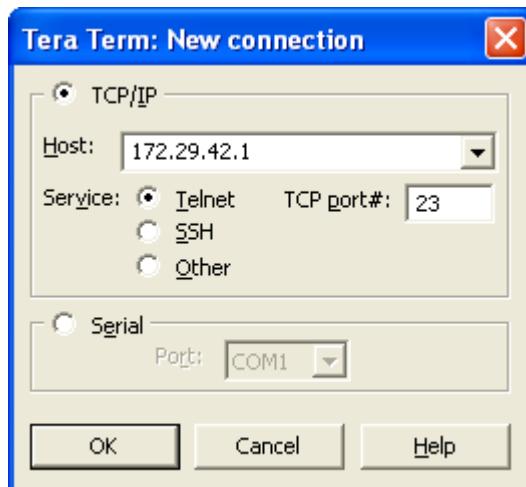


DIS/PAN-04-01-00 : 12:00:01

```
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 : 12:00:01

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

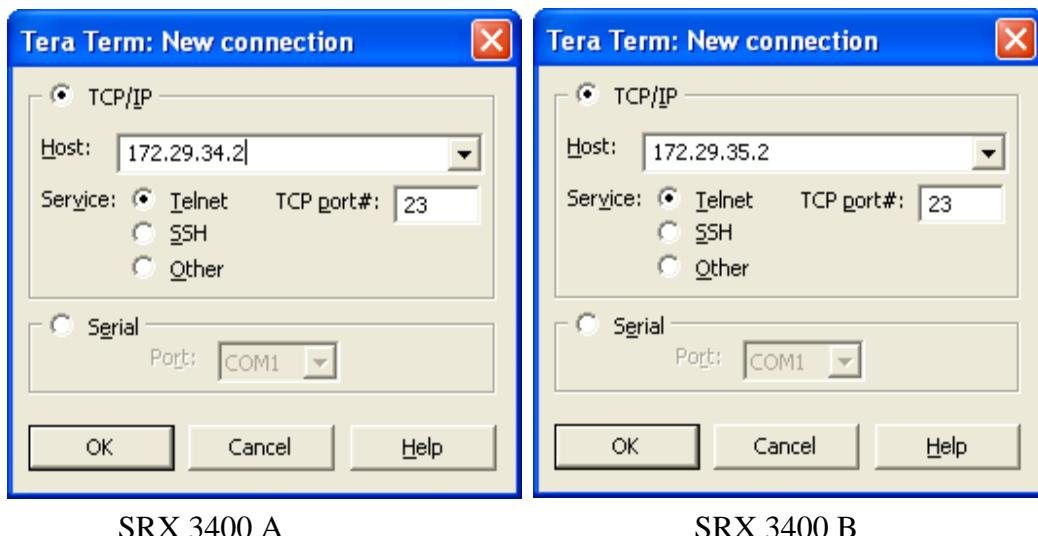
```
admin@M10-DRC> show mpls lsp
Ingress LSP: 2 sessions
To          From       State Rt P ActivePath      LSPname
172.16.11.1 172.16.8.1 Up   0 *           TO_ROUTER_DC
172.16.21.1 172.16.31.1 Up   0 *           TO_ROUTER_GDL
Total 2 displayed, Up 2, Down 0
Egress LSP: 2 sessions
To          From  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



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

```
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	



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

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

3.2 Membuat Daily Report

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

Berikut adalah langkah-langkah untuk membuat Daily Report.

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

- | | |
|--|---|
| | <ul style="list-style-type: none">• 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 <ul style="list-style-type: none">• Buka Web dengan menggunakan Mozilla atau IE kemudian isi bar address dengan 131.100.55.153/cacti klik Graph\Router DRC, klik EXCORE82 DRC A• klik Gambar Traffic EXCORE82 DRC A - Backup CPU Usage• klik Gambar Traffic EXCORE82 DRC 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 DRC B - Master CPU Usage <ul style="list-style-type: none">• Buka Web dengan menggunakan Mozilla atau IE kemudian isi bar address dengan 131.100.55.153/cacti klik Graph\Router DRC, klik EXCORE82 DRC B• klik Gambar Traffic EXCORE82 DRC B - Master CPU Usage• klik Gambar Traffic EXCORE82 DRC 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 |



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

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

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

- 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\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\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

		Capture Juniper EX 3200 DRC CPU UTILIZATION
		<ul style="list-style-type: none">• 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
		<ul style="list-style-type: none">• klik Gambar Traffic EX32-MIMIX-DRC - CPU Usage
		<ul style="list-style-type: none">• klik Gambar Traffic EX32-MIMIX-DRC - CPU Usage (daily-1minute Average)
		<ul style="list-style-type: none">• Copy (CTRL+C)
		<ul style="list-style-type: none">• Kembali ke Daily Report.doc
		<ul style="list-style-type: none">• Select 'EX32-MIMIX-DRC - CPU Usage' pada Daily Report.doc
		<ul style="list-style-type: none">• Paste (CTRL+V)
		<ul style="list-style-type: none">• Kembali ke halaman pertama window 131.100.55.153/cacti
		Capture Juniper EX 3200 L2VPN DRC CPU UTILIZATION
		<ul style="list-style-type: none">• 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
		<ul style="list-style-type: none">• klik Gambar Traffic EX32-L2VPN-DRC - CPU Usage
		<ul style="list-style-type: none">• klik Gambar Traffic EX32-L2VPN-DRC - CPU Usage (daily-1minute Average)
		<ul style="list-style-type: none">• Copy (CTRL+C)
		<ul style="list-style-type: none">• Kembali ke Daily Report.doc
		<ul style="list-style-type: none">• Select 'EX22-L2VPN-DRC - CPU Usage' pada Daily Report.doc
		<ul style="list-style-type: none">• Paste (CTRL+V)
		<ul style="list-style-type: none">• Kembali ke halaman pertama window 131.100.55.153/cacti
		Capture MIMIX 60.0.8.5
		<ul style="list-style-type: none">• 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
		<ul style="list-style-type: none">• klik Gambar Traffic EX32-MIMIX-DRC - Traffic - to_MIMIX_60.0.8.5
		<ul style="list-style-type: none">• Copy (CTRL+C)
		<ul style="list-style-type: none">• Kembali ke Daily Report.doc
		<ul style="list-style-type: none">• Select '1. To MIMIX 60.0.8.5 P/34 pada Daily Report.doc
		<ul style="list-style-type: none">• Paste (CTRL+V)
		<ul style="list-style-type: none">• Save (CTRL+S)
		<ul style="list-style-type: none">• Kembali ke halaman pertama window 131.100.55.153/cacti

7 Capture Juniper EX 3200 DRC Traffic

Capture LAN 1 PCI 1 WAAS DRC05 60.0.4.6 P/12	
	<ul style="list-style-type: none">• 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• klik Gambar Traffic EX32-MIMIX-DRC - Traffic Mimix GTI to DRC - LAN1_WAAS_5• Copy (CTRL+C)• Kembali ke Daily Report.doc• Select ‘2. To LAN 1 PCI 1 WAAS DRC05 60.0.4.6 P/12’ pada Daily Report.doc• Paste (CTRL+V)• Save (CTRL+S)• Kembali ke halaman pertama window 131.100.55.153/cacti
Capture WAN 1 PCI 1 WAAS DRC05 60.0.4.6 P/13	
	<ul style="list-style-type: none">• 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• klik Gambar Traffic EX32-MIMIX-DRC - Traffic MIMIX GTI to DRC- to_WAN1_WAAS_5• Copy (CTRL+C)• Kembali ke Daily Report.doc• Select ‘3. To WAN 1 PCI 1 WAAS DRC05 60.0.4.6 P/13’ pada Daily Report.doc• Paste (CTRL+V)• Save (CTRL+S)• Kembali ke halaman pertama window 131.100.55.153/cacti
Capture NetApp	
	<ul style="list-style-type: none">• 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• klik Gambar Traffic EX32-MIMIX-DRC - Traffic - to_NetApp_ge-0/0/30• Copy (CTRL+C)• Kembali ke Daily Report.doc• Select ‘4. To NetApp P/30 pada Daily Report.doc• Paste (CTRL+V)• Save (CTRL+S)• Kembali ke halaman pertama window 131.100.55.153/cacti

**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">• Select '10. To LAN 0 PCI 1 WAAS DRC04 60.0.8.7 P/24' pada Daily Report.doc• Paste (CTRL+V)• Save (CTRL+S)• Kembali ke halaman pertama window 131.100.55.153/cacti <p>Capture WAY4/WAN 0 PCI 1 WAAS DRC 04 60.0.8.7/P.25</p> <ul style="list-style-type: none">• 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 EX32-MIMIX-DRC <ul style="list-style-type: none">• klik Gambar Traffic EX32-MIMIX-DRC - Traffic WAN WAY4 - to_WAN0_WAAS_4• Copy (CTRL+C)• Kembali ke Daily Report.doc• Select '11. To WAN 0 PCI 1 WAAS DRC04 60.0.8.7 P/25' pada Daily Report.doc• Paste (CTRL+V)• Save (CTRL+S)• Kembali ke halaman pertama window 131.100.55.153/cacti
8	Capture M10 DRC Traffic	<p>Capture M10i DRC To SUD Telkom - so-1/2/0</p> <ul style="list-style-type: none">• 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 Juniper M10i DRC• klik Gambar Traffic Juniper M10i DRC - Traffic STM-1 DRC to SUD Telkom- so-1/2/0• Copy (CTRL+C)• Kembali ke Daily Report.doc• Select 'Juniper M10i DRC - Traffic STM-1 DRC to SUD Telkom- so-1/2/0' pada Daily Report.doc• Paste (CTRL+V)• Save (CTRL+S) <ul style="list-style-type: none">• Kembali ke halaman pertama window 131.100.55.153/cacti

Capture M10i DRC To GTI Icon+ - so-1/2/1	
	<ul style="list-style-type: none">• 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 Juniper M10i DRC• klik Gambar Juniper M10i DRC - Traffic STM-1 DRC to GTI Icon+ - so-1/2/1• Copy (CTRL+C)• Kembali ke Daily Report.doc
	<ul style="list-style-type: none">• Select 'Juniper M10i DRC - Traffic STM-1 DRC to GTI Icon+ - so-1/2/1' pada Daily Report.doc
	<ul style="list-style-type: none">• Paste (CTRL+V)
	<ul style="list-style-type: none">• Save (CTRL+S)
	<ul style="list-style-type: none">• Kembali ke halaman pertama window 131.100.55.153/cacti

3.3 Mengisi Ceklis Harian BRI

Pengisian ceklis harian BRI ini dilakukan diakhir shift bertugas, tasklist ceklis berada di ruang staff.

No	Nama Kegiatan	Periode	Hari	Jam
1	Verifikasi Kegiatan Garden GH : Area Depan Luar Gedung Guest House Merapikan Tanaman.Cabuti Rumput Liar.Gemburkan Tanah	Tri Mingguan	Thursday	08:30:00
2	Capture Graph. Status CPU Utilisasi dan Memory BCN	harian		07:04:00
3	Capture Graph. Status CPU Utilisasi dan Port Error PP8600	harian		07:02:00
4	Capture Graph Utilisasi STM1 di M10	harian		07:00:00
5	Cek LED Indikator Juniper SRX 3400 B (Alarm Yellow, Alarm Red, SFB, HA, CFM Service, CFM OK/Fail, RE 0, RE 1, Power, FAN Back Panel PSU PEM 0; PSU PEM 1; Service, OK/Fail : SRX3K-NPC; SRX3K-SPC-0-10-40 ; RE 0 Online, Routing Engine : Master, Status, HDD , Status PFE Controller	harian		06:59:00
6	Cek LED Indikator Juniper SRX 3400 A (Alarm Yellow, Alarm Red, SFB, HA, CFM Service, CFM OK/Fail, RE 0, RE 1, Power, FAN Back Panel PSU PEM 0; PSU PEM 1; Service, OK/Fail : SRX3K-NPC; SRX3K-SPC-0-10-40 ; RE 0 Online, Routing Engine : Master, Status, HDD , Status PFE Controller	harian		06:58:00
7	Cek LED Indikator Cisco Catalyst 4506 B (Fan Status ; Status WS-X 4515 Supervisor Engine IV; 48 Port MultiSpeed Gigabit Ethernet Switching Module; PSU-1 dan PSU-2)	harian		06:57:00
8	Cek LED Indikator Cisco Catalyst 4506 A (Fan Status ; Status WS-X 4515 Supervisor Engine IV; 48 Port MultiSpeed Gigabit Ethernet Switching Module; PSU-1 dan PSU-2)	harian		06:56:00
9	Cek LED Indikator Juniper EX 8200 B (Alarm, SYS, MST ; Module EX 8200 48T, SRE 0 EX 8208 SRE 320; EX 8208 SF 320; SRE 1 EX 8208 SRE 320; PSU-0 s/d PSU-3	harian		06:55:00
10	Cek LED Indikator Juniper EX 8200 A (Alarm, SYS, MST ; Module EX 8200 48T, SRE 0 EX 8208 SRE 320; EX 8208 SF 320; SRE 1 EX 8208 SRE 320; PSU-0 s/d PSU-3	harian		06:54:00
11	Cek LED Indikator Juniper EX MIMIX 3200 (Power, Alarm, SYS, MST)	harian		06:53:00
12	Cek LED Indikator Juniper J 6350 (Power, Alarm, Status, HA ; CTI/EL: PIM CTI/EL Back Panel PSU-1 and PSU-2)	harian		06:52:00
13	Cek LED Indikator M10 (RE0/0:PICS Module:Major,Minor,Power,Master; RE1/1:PICS Module:Major,Minor,Power,Master; RE0/0: RE-400 :HDD,Fail,Master,Online; 0/0 DS3: TX RX Port 0,TX RX Port 1; 0/1 Status Ethernet 10/100 Base-TX	harian		06:51:00
14	Capture Graph dan Status CPU Utilisasi Cisco Catalyst 4506 A	harian		07:16:00
15	Capture Graph dan Status CPU Utilisasi Cisco Catalyst 4506 B	harian		22:18:00
16	Capture Graph dan Status CPU Utilisasi Cisco Catalyst 4506 A	harian		22:16:00
17	Capture Graph dan Status CPU Utilisasi Juniper EX 8200 B	harian		22:14:00
18	Capture Graph dan Status CPU Utilisasi Juniper EX 8200 A	harian		22:12:00
19	Capture Graph dan Status CPU Utilisasi EX MIMIX 3200	harian		22:10:00
20	Capture Graph dan Status CPU Utilisasi J Series	harian		22:08:00



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

21	Capture Graph dan Status CPU Utilisasi M10	harian	22:06:00
22	Capture Graph. Status CPU Utilisasi dan Memory BCN	harian	22:04:00
23	Capture Graph. Status CPU Utilisasi dan Port Error PP8600	harian	22:02:00
24	Capture Graph Utilisasi STM1 di M10	harian	22:00:00
25	Cek LED Indikator Juniper SRX 3400 B (Alarm Yellow. Alarm Red. SFB. HA. CFM Service. CFM OK/Fail. RE 0. RE 1. Power. FAN Back Panel PSU PEM 0; PSU PEM 1; Service. OK/Fail : SRX3K-NPC;SRX3K-SPC-0-10-40 ; RE 0 Online. Routing Engine : Master. Status. HDD ; Status PFE Controller	harian	21:59:00
26	Cek LED Indikator Juniper SRX 3400 A (Alarm Yellow. Alarm Red. SFB. HA. CFM Service. CFM OK/Fail. RE 0. RE 1. Power. FAN Back Panel PSU PEM 0; PSU PEM 1; Service. OK/Fail : SRX3K-NPC;SRX3K-SPC-0-10-40 ; RE 0 Online. Routing Engine : Master. Status. HDD ; Status PFE Controller	harian	21:58:00
27	Cek LED Indikator Cisco Catalyst 4506 B (Fan Status ; Status WS- X 4515 Supervisor Engine IV; 48 Port MultiSpeed Gigabit Ethernet Switching Module; PSU-1 dan PSU-2)	harian	21:57:00
28	Cek LED Indikator Cisco Catalyst 4506 A (Fan Status ; Status WS- X 4515 Supervisor Engine IV; 48 Port MultiSpeed Gigabit Ethernet Switching Module; PSU-1 dan PSU-2)	harian	21:56:00
29	Cek LED Indikator Juniper EX 8200 B (Alarm. SYS. MST ; Module EX 8200 48T ,SRE 0 EX 8208 SRE 320; EX 8208 SF 320;SRE 1 EX 8208 SRE 320;PSU-0 s/d PSU-3	harian	21:55:00
30	Cek LED Indikator Juniper EX 8200 A (Alarm. SYS. MST ; Module EX 8200 48T ,SRE 0 EX 8208 SRE 320; EX 8208 SF 320;SRE 1 EX 8208 SRE 320;PSU-0 s/d PSU-3	harian	21:54:00
31	Cek LED Indikator Juniper EX MIMIX 3200 (Power. Alarm . SYS . MST)	harian	21:53:00
32	Cek LED Indikator Juniper J 6350 (Power. Alarm. Status. . HA ; CTI/EL: PIM CTI/EL Back Panel PSU-1and PSU-2)	harian	21:52:00
33	Cek LED Indikator M10 (RE0/0:PICS Module:Major.Minor.Power.Master; RE1/1:PICS Module:Major.R.Minor.Power.Master; RE0/0: RE-400 :HDD.Fail.Master.Online; 0/0 DS3: TX RX Port 0.TX RX Port 1; 0/1 Status Ethernet 10/100 Base-TX	harian	21:51:00
34	Cek LED Indikator PP8600 (Online in module 8648TXE; Online in module 8608GBE; Online. Power Supply 1. Fan 1. Fan 2. Master in module 8691SF/256 and module 8691SF/256)	harian	21:50:00
35	Cek LED Indikator BS5510 USER (Power. Base. Up *. Down *)	harian	21:49:00
36	Cek LED Indikator panel depan BCN (Power. Run. Boot. Diag) Back Panel (Led Fail in module D100BT; Fail in module SONET/SDH; fail in module 10/100 BaseTX; VCC. 12V1. 12V2 in module SRML; PSU-1 s/d PSU-4)	harian	21:47:00
37	Cek LED Indikator BS5510 RTGS (Power. Base. Up *. Down *)	harian	21:46:00
38	Capture WAAS DC- DRC	harian	22:35:00
39	Pengecekan Status Jaringan Komunikasi STM1	harian	22:31:00
40	capture All bandwidth WAN compression	harian	22:05:00
41	Pengecekan Status Jaringan Komunikasi STM1	harian	22:01:00
42	Pengecekan Status Jaringan Komunikasi STM1	harian	20:01:00
43	capture All bandwidth WAN compression	harian	19:05:00
44	Pengecekan Status Jaringan Komunikasi STM1	harian	18:01:00
45	capture All bandwidth WAN compression	harian	16:05:00
46	Capture Graph dan Status CPU Utilisasi Juniper SRX 3400 B	harian	15:22:00
47	Pengecekan Status Jaringan Komunikasi STM1	harian	16:01:00
48	Capture Graph dan Status CPU Utilisasi Juniper SRX 3400 A	harian	15:20:00
49	Capture Graph dan Status CPU Utilisasi Cisco Catalyst 4506 B	harian	15:18:00
50	Capture Graph dan Status CPU Utilisasi Cisco Catalyst 4506 A	harian	15:16:00
51	Capture Graph dan Status CPU Utilisasi Juniper EX 8200 B	harian	15:14:00
52	Capture Graph dan Status CPU Utilisasi Juniper EX 8200 A	harian	15:12:00
53	Capture Graph dan Status CPU Utilisasi EX MIMIX 3200	harian	15:10:00
54	Capture Graph dan Status CPU Utilisasi J Series	harian	15:08:00
55	Capture Graph dan Status CPU Utilisasi M10	harian	15:06:00
56	Capture Graph. Status CPU Utilisasi dan Memory BCN	harian	15:04:00
57	Capture Graph. Status CPU Utilisasi dan Port Error PP8600	harian	15:02:00
58	Capture Graph Utilisasi STM1 di M10	harian	15:00:00
59	Cek LED Indikator Juniper SRX 3400 B (Alarm Yellow. Alarm Red. SFB. HA. CFM Service. CFM OK/Fail. RE 0. RE 1. Power. FAN Back Panel PSU PEM 0; PSU PEM 1; Service. OK/Fail : SRX3K-NPC;SRX3K-SPC-0-10-40 ; RE 0 Online. Routing Engine : Master. Status. HDD ; Status PFE Controller	harian	14:59:00
60	Cek LED Indikator Juniper SRX 3400 A (Alarm Yellow. Alarm Red. SFB. HA. CFM Service. CFM OK/Fail. RE 0. RE 1. Power. FAN Back Panel PSU PEM 0; PSU PEM 1; Service. OK/Fail : SRX3K-NPC;SRX3K-SPC-0-10-40 ; RE 0 Online. Routing Engine : Master. Status. HDD ; Status PFE Controller	harian	14:58:00



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

61	Cek LED Indikator Cisco Catalyst 4506 B (Fan Status ; Status WS- X 4515 Supervisor Engine IV; 48 Port MultiSpeed Gigabit Ethernet Switching Module; PSU-1 dan PSU-2)	harian	14:57:00
62	Cek LED Indikator Cisco Catalyst 4506 A (Fan Status ; Status WS- X 4515 Supervisor Engine IV; 48 Port MultiSpeed Gigabit Ethernet Switching Module; PSU-1 dan PSU-2)	harian	14:56:00
63	Cek LED Indikator Juniper EX 8200 B (Alarm. SYS. MST ; Module EX 8200 48T ; SRE 0 EX 8208 SRE 320; EX 8208 SF 320; SRE 1 EX 8208 SRE 320; PSU-0 s/d PSU-3	harian	14:55:00
64	Cek LED Indikator Juniper EX 8200 A (Alarm. SYS. MST ; Module EX 8200 48T ; SRE 0 EX 8208 SRE 320; EX 8208 SF 320; SRE 1 EX 8208 SRE 320; PSU-0 s/d PSU-3	harian	14:54:00
65	Cek LED Indikator Juniper EX MIMIX 3200 (Power . Alarm . SYS . MST)	harian	14:53:00
66	Cek LED Indikator Juniper J 6350 (Power. Alarm. Status . HA ; CTI/EL: PIM CTI/EL Back Panel PSU-1 and PSU-2)	harian	14:52:00
67	Cek LED Indikator M10 (RE0/0:PICS Module:Major.Minor.Power.Master; RE1/1:PICS Module:Major.R.Minor.Power.Master; RE0/0: RE-400 HDD.Fail.Master.Online; 0/0 DS3: TX RX Port 0.TX RX Port 1; 0/1 Status Ethernet 10/100 Base-TX	harian	14:51:00
68	Cek LED Indikator PP8600 (Online in module 8648TXE; Online in module 8608GBE; Online. Power Supply 1. Fan 1. Fan 2. Master in module 8691SF/256 and module 8691SF/256)	harian	14:50:00
69	Cek LED Indikator BS5510 USER (Power. Base. Up * . Down *)	harian	14:49:00
70	Cek LED Indikator panel depan BCN (Power. Run. Boot. Diag) Back Panel (Led Fail in module D100BT; Fail in module SONET/SDH; fail in module 10/100 BaseTX; VCC. 12V1. 12V2 in module SRML; PSU-1 s/d PSU-4)	harian	14:47:00
71	Cek LED Indikator BS5510 RTGS (Power. Base. Up * . Down *)	harian	14:46:00
72	Pengecekan Status Jaringan Komunikasi STM1	harian	14:01:00
73	Pengecekan Status Jaringan Komunikasi STM1	harian	15:31:00
74	Pengecekan Status Jaringan Komunikasi STM1	harian	12:01:00
75	capture All bandwidth WAN compression	harian	13:05:00
76	capture All bandwidth WAN compression	harian	10:05:00
77	Pengecekan Status Jaringan Komunikasi STM1	harian	10:01:00
78	Pengecekan Status Jaringan Komunikasi STM1	harian	08:01:00
79	FTP Backup Configuration All Network Switching Device	harian	09:00:00
80	Cek LED Indikator PP8600 (Online in module 8648TXE; Online in module 8608GBE; Online. Power Supply 1. Fan 1. Fan 2. Master in module 8691SF/256 and module 8691SF/256)	harian	06:50:00



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

81	Cek LED Indikator BS5510 USER (Power, Base, Up *, Down *)	harian	06:49:00
82	Cek LED Indikator panel depan BCN (Power, Run, Boot, Diag) Back Panel (led Fail in module D100BT; fail in module SONET/SDH; fail in module 10/100 BaseTX; VCC. 12V1, 12V2 in module SRML, PSU-1 s/d PSU-4)	harian	06:47:00
83	Cek LED Indikator BS5510 RTGS (Power, Base, Up *, Down *)	harian	06:46:00
84	Pengecekan Status Jaringan Komunikasi STM1	harian	07:31:00
85	capture All bandwidth WAN compression	harian	07:05:00
86	Pengecekan Status Jaringan Komunikasi STM1	harian	06:01:00
87	Pengecekan Status Jaringan Komunikasi STM1	harian	04:01:00
88	Capture Graph dan Status CPU Utilisasi Juniper EX 8200 B	harian	07:14:00
89	Capture Graph dan Status CPU Utilisasi Juniper EX 8200 A	harian	07:12:00
90	Capture Graph dan Status CPU Utilisasi EX MIMIX 3200	harian	07:10:00
91	Capture Graph dan Status CPU Utilisasi J Series	harian	07:08:00
92	Capture Graph dan Status CPU Utilisasi M10	harian	07:06:00
93	Capture Graph dan Status CPU Utilisasi Juniper SRX 3400 A	harian	22:20:00
94	Pengecekan Status Jaringan Komunikasi STM1	harian	02:01:00
95	Daily Report MA WCS (via Email)	harian	06:30:00
96	Pengecekan Status Jaringan Komunikasi STM1	harian	00:01:00
97	Capture Graph dan Status CPU Utilisasi Juniper SRX 3400 B	harian	22:22:00
98	Capture Graph dan Status CPU Utilisasi Cisco Catalyst 4506 B	harian	07:18:00
99	Capture Graph dan Status CPU Utilisasi Juniper SRX 3400 A	harian	07:20:00
100	Capture Graph dan Status CPU Utilisasi Juniper SRX 3400 B	harian	07:22:00
101	Backup Configuration All Network Switching Device DRC	harian	06:30:00
102	Capture Graph dan Status CPU Utilisasi Juniper EX 8200 A	harian	22:12:00
103	Capture Graph dan Status CPU Utilisasi EX MIMIX 3200	harian	22:10:00
104	Capture Graph dan Status CPU Utilisasi J Series	harian	22:08:00
105	Capture Graph dan Status CPU Utilisasi M10	harian	22:06:00
106	Capture Graph, Status CPU Utilisasi dan Memory BCN	harian	22:04:00
107	Capture Graph, Status CPU Utilisasi dan Port Error PP8600	harian	22:02:00



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

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		WebBank & Hitachi				Way4		M10i (STM1)						MIMIX 60.0.1.4		NettApp									
WAN				WAN		WAN				WAN		Input MIMIX 60.0.1.4						Input NetApp		Input NetApp									
WAAS DRC05 60.0.4.7	WAAS DRC04 60.0.8.7	STM1 DC-DRC	STM1 GTI-DRC	Bandwidth	TOTAL	60.0.1.4	60.0.1.118	60.0.1.138 + 60.0.1.148	Time	Bandwidth	Time	Bandwidth	Time	Bandwidth	Time	Bandwidth	(WIB)	kbps	Mbps	(WIB)	kbps	Mbps	(WIB)	kbps	Mbps				
6:00	76530	76.53	6:00	212.15	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	12:00	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	15:00	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	18:00	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	21:00	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		WebBank & 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		Bandwidth						M10i (STM1 DRC-DC-GT)						Total		
Time	Bandwidth			Bandwidth			Bandwidth			Bandwidth			Bandwidth			Bandwidth			M10i (STM1 DRC-DC-GT)			Total				
(WIB)	from AS400	LAN 1 PCI 1	WAN 1 PCI 1	from SW Ex3200	from SW Ex3200	from SW Port 00	from SW Port 01	from SW Compress (x)	from SW HPI NetApp	from SW HPI NetApp	from SW LAN 1 PCI 2 Ex3200	from SW LAN 1 PCI 2 Ex3200	from SW WAN 1 PCI 2 Port 18	from SW WAN 1 PCI 2 Port 19	from SW Compress (x)	from SW LAN 1 PCI 1 Catalyst 2960 port Ge-0/1 (Kbps)	from SW WAN 1 PCI 1 Ex3200 Port 17 (Kbps)	from SW Compress (x)	from Baystack 5530 Ex3200 Port 24 (Kbps)	from LAN 0 PCI 1 Ex3200 Port 25 (Kbps)	from WAN 0 PCI 1 Port 23 (Kbps)	from Compress (x)	from M10i (STM1 DRC-DC-GT)	Total		
0:00	164920	165070	45650	3.62	0.328	932.35	932.24	82.31	11.33	250.21	244.45	1.02	134070	132550	90970	1.46	139880	379.15	139059.15							
1:00	303490	304140	53886	5.65	0.33	1340	1340	164.73	8.13	246.28	249.33	0.99	52930	52610	12400	4.24	91700	241.6	91941.6							
2:00	5460	5460	1560	3.52	0.33	779.98	779.73	70.21	11.11	260080	34220	7.78	40560	41130	10180	4.04	82020	228.08	82248.08							
3:00	264940	265910	37250	7.14	0.332	1970	1960	255.26	7.68	358220	51250	6.99	12780	12670	3160	4.01	91470	236.9	91706.9							
4:00	498320	498570	74650	6.64	0.329	1480	1480	198.25	7.47	191930	28850	6.85	32810	32470	8210	3.95	111320	241.4	111561.4							
5:00	456730	456800	81400	5.63	0.324	1570	1570	220.31	7.13	182410	29380	6.21	144480	14770	3800	3.88	113470	239.6	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	213.96	6.92	243.22	239.74	1.01	39340	39920	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	244.08	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	251630	258750	52250	4.95	0.347	2170	2160	415.23	5.20	244.25	250.27	0.98	71540	72260	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	243.24	53320	52930	14700	73840	748.86	74088.86											

MIMIX 60.0.1.4																									
WAAS DRC01 60.0.4.7																									
MIMIX 60.0.1.4				NetApp		WebBank & Hitachi				Way4		M10i STM1 (Mbps)													
MIMIX	LAN 1 PCI 1	WAN 1 PCI 1	Port 34 (Mbps)	NetApp	NetApp	LAN 1 PCI 2	WAN 1 PCI 2	Ex3200	Ex3200	Compress (x)	Port 28 (Mbps)	Port 30 (Mbps)	Port 18 (Mbps)	Port 19 (Mbps)	Compress (x)	Ex3200	Ex3200	Port 23 (Mbps)	Port 24 (Mbps)	Port 25 (Mbps)	Compress (x)	M10i (STM1 DC-DRC) (Mbps)	M10i (STM1 GTI-DRC) (Mbps)	Total	
Max	498.32	495.57	81.40	10	0.00	2.17	2.16	0.42	11	368.22	51.25	8	134.07	132.55	90.97	4	138.68	0.38	139.08						
Min	5.45	5.46	1.55	2	0.00	0.78	0.78	0.07	5	0.24	0.24	1	12.78	12.67	3.16	1	25.24	0.23							

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"> Buka file RPO with Compression Template.xls dari D:\MASTER\TEMPLATE\RPO with Traffic Compression atau buka RPO hari sebelumnya di D:\# OPERASIONAL\Tahun\Bulan\Tanggal Save As dengan filename (GTI-DRC)RPO with traffic Compression.xls pada hari akan dijalankannya RPO
	Capture Network Traffic Monitoring	Setiap jam sekali	<ul style="list-style-type: none"> Buka File RPO yang telah di save Buka sheet Capture_Compression dan isi sesuai Capture Network traffic Monitoring yang dibutuhkan Kolom Compress merupakan hasil pembagian dari kolom LAN dibagi kolom WAN
2	Traffic Mimix 60.0.8.5		<ul style="list-style-type: none"> 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 Lihat EX32-MIMIX-DRC - Traffic - to_MIMIX_60.0.8.5 untuk traffic 'Current Outbound' Catat Traffic 'Current Outbound' untuk kolom from AS400 MIMIX Ex3200 Port 34 sesuai dengan jamnya Save
3	Traffic LAN1 PCI 1 WAAS-DRC05 60.0.4.6		<ul style="list-style-type: none"> 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 Lihat EX32-MIMIX-DRC - Traffic Mimix GTI to DRC - LAN1_WAAS_5 untuk traffic 'Current Inbound' Catat Traffic 'Current Inbound' untuk kolom LAN 1 PCI1 EX3200 Port 12 pada kolom yang sesuai dengan jamnya Save
4	Traffic WAN 1 PCI 1WAAS-5 60.0.4.6		<ul style="list-style-type: none"> 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 Lihat EX32-MIMIX-DRC - Traffic MIMIX GTI to DRC- to_WAN1_WAAS_5 untuk traffic 'Current Outbound' Catat Trafik 'Current Outbound' untuk kolom WAN 1 PCI 1 EX3200 Port 13 pada kolom yang sesuai dengan jamnya Save

5	Traffic Mimix 60.0.1.4	Ketika replikasi miimix menggunakan link DRC - SUD	<ul style="list-style-type: none"> 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 Lihat EX32-MIMIX-DRC - Traffic - to_MIMIX_60.0.1.4 ge-0/0/2 untuk traffic 'Current Outbound' Catat Traffic 'Current Outbound' untuk kolom 'from AS400 MIMIX Ex3200 Port 02' sesuai dengan jamnya Save
6	Traffic LAN 1 PCI 1 WAAS DRC 01	Ketika replikasi miimix menggunakan link DRC - SUD	<ul style="list-style-type: none"> 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 Lihat EX32-MIMIX-DRC - Traffic - to_LAN1_WAAS_1 ge-0/0/0 untuk traffic 'Current Inbound' Catat Traffic 'Current Outbound' untuk kolom 'LAN 1 PCI 1 Ex3200 Port 00' sesuai dengan jamnya Save
7	Traffic WAN 1 PCI 1 WAAS DRC 01	Ketika replikasi miimix menggunakan link DRC - SUD	<ul style="list-style-type: none"> 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) Lihat EX32-MIMIX-DRC - Traffic - to_WAN1_WAAS_1 ge-0/0/1 untuk traffic 'Current Outbound' Catat Traffic 'Current Outbound' untuk kolom 'WAN 1PCI1 Ex3200 Port 01' sesuai dengan jamnya Save
8	Traffic NetApp EX 3200 Port 30		<ul style="list-style-type: none"> 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 Lihat 'EX32-MIMIX-DRC – Traffic – to_NetApp_ge-0/0/30' untuk traffic 'Current Outbound' Catat Traffic 'Current Outbound' untuk kolom NetApp EX3200 port 30 pada kolom yang sesuai dengan jamnya Save
9	Traffic NetApp LAN 1 PCI 2 EX3200 Port 18		<ul style="list-style-type: none"> 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 Lihat 'EX32-MIMIX-DRC - Traffic NetApp - to_LAN1_WAAS_4' untuk traffic 'Current Inbound' Catat Traffic 'Current Inbound' untuk kolom 'LAN 1 PCI 2 Ex3200 Port 18' pada kolom yang sesuai dengan jamnya

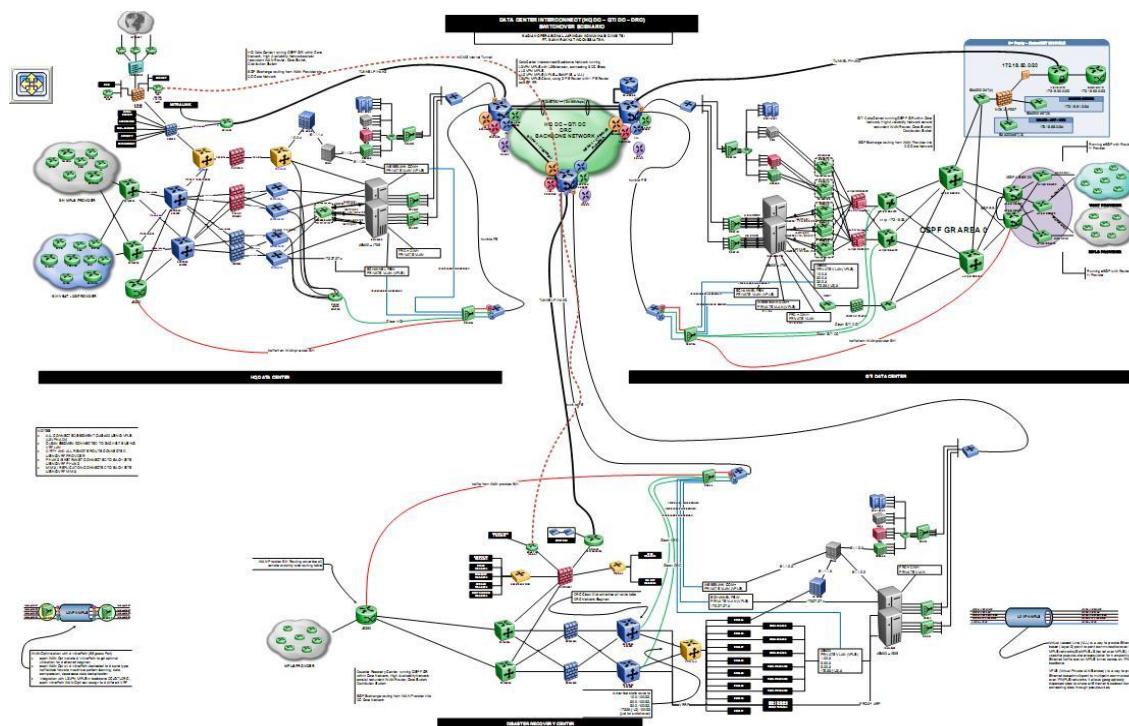
			<ul style="list-style-type: none"> • Save
10	Traffic NetApp WAN 1 PCI 2 EX3200 Port 19		<ul style="list-style-type: none"> • Buka Cacti 131.100.55.153/cacti pada Website Mozilla atau IE , klik Graph\Reporting\DRC\Replikasi DRC, untuk melihat traffic NetApp pada jam sesuai dengan yang akan dimasukan •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

		<ul style="list-style-type: none"> Lihat 'EX32-MIMIX-DRC - Traffic LAN WAY4 - to_LAN0_WAAS_4' untuk traffic 'Current Inbound'
		<ul style="list-style-type: none"> Catat Traffic 'Current Inbound' untuk kolom 'LAN 0 PCI 1 Ex3200 Port 24' pada kolom yang sesuai dengan jamnya
		<ul style="list-style-type: none"> Save
15	Traffic Way4 EX 3200 port 25	<ul style="list-style-type: none"> 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 Lihat 'EX32-MIMIX-DRC - Traffic WAN WAY4 - to_WAN0_WAAS_4' untuk traffic 'Current Outbound'
		<ul style="list-style-type: none"> Catat Traffic 'Current Outbound' untuk kolom 'WAN 0 PCI 1 Ex3200 Port 25' pada kolom yang sesuai dengan jamnya
		<ul style="list-style-type: none"> Save
16	Traffic STM1 DRC to SUD	<ul style="list-style-type: none"> 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 Lihat 'Juniper M10i DRC - Traffic STM-1 DRC to SUD Telkom- so-1/2/0' untuk traffic 'Current Inbound'
		<ul style="list-style-type: none"> Catat Traffic 'Current Inbound' untuk kolom 'M10i DRC (STM1 DC-DRC)' pada kolom yang sesuai dengan jamnya
		<ul style="list-style-type: none"> Save
17	Traffic STM1 DRC to GTI	<ul style="list-style-type: none"> 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 Lihat 'Juniper M10i DRC - Traffic STM-1 DRC to GTI Icon+ - so-1/2/1' untuk traffic 'Current Inbound' Catat Traffic 'Current Inbound' untuk kolom 'M10i DRC (STM1 GTI-DRC)' pada kolom yang sesuai dengan jamnya
		<ul style="list-style-type: none"> Save

3.5 *Disaster Recovery*

Proses *disaster recovery* PT. BRI di implementasikan 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.



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



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

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

```
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

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

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 Humidity & 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
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)
Y18	Rack Storage
W18	Rack Storage
X18	Rack Storage
Y18	Rack Storage
Y31	Rack Main Frame



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

5.2 Update Mapping Server

Bentuk tabel data Mapping Server yang dikerjakan MA-WCS

Nama Rak	Letak U#	Nama Perangkat	Label Power	Keterangan	PIC / Vendor	Keterangan
51	Kosong	HP Hewlett Packard RACK System		Kosong		
52	Kosong	RACK EMC CONECTRIX		Kosong		update 310510
53	Kosong	Rack WAN Optimizer		Kosong		
		RACK ICON+ Baru				
54	U2	SIM Card DS3		Jalur utama DS3 dan Gendul	Icon+	
54	U8	(Optis metro 155/622(metro 2050))			Icon+	
54	U7	Power Supply / Repeater		link from rack icon+	Icon+	
54						
54						
55		AC Liebert 3			Jaya teknik	
		RACK CSM				
55	U14	Cisco Catalyst 3560 SN = FOC1243W1VL	P0502	L3 switch		
55	U15	Ether Access R1-E1	P0502	converter E1 to RJ	PT. Citra San Makmur	
55	U16	Ether Access R1-P1	P0502	converter E1 to RJ	PT. Citra San Makmur	
55						
55						
55						
		RACK PATCH PANEL				
55	U3	Cisco Catalyst 2950	PW0413	L2 switch		
55	U3	Nortel Baystack 420-24T Switch	PW0413	Fast through 60.0.4.6		
55	U7	Nortel Baystack 5530	PW0413		HCS	
55	U9	Juniper EX2200 48 Port (1 for minix and WAAS)		L3 switch minix WAAS and netapp	HCS	
55	U10	3Com Switch 2226				
55	U12	Cisco Catalyst 2960		for FTR WebBank		
55	U13	3Com Switch 2024	PW0413	L2 switch		
55	U14	Nortel Baystack 5530 Switch Pihak Ke-3 (RTGS)	PW0413	L3 Switch	HCS	
55	U17	Cisco Catalyst 2950 Web E-BANK	PW0413	L2 Web Ebank		
55	U18	Cisco Catalyst 2950 AC UPS	PW0413	AC UPS		
55	U19	Patch Panel Port 25-48		pp08600 port 25-48		
55	U20	Patch Panel Port 1-24		pp08600 port 1-24		
55	U21	Patch Panel port 337-341; Bbone1-2; BboneC1-C2; BboneD1-D2				
55	U22	Patch Panel port 315-336				
55	U24	Patch Panel port 209-312				
55	U25	Patch Panel port 265-288				
55	U27	Patch Panel port 241-264				
55	U28	Patch Panel port 217-248				
55	U30	Patch Panel port 193-216				
55	U31	Patch Panel port 169-192				
55	U33	Patch Panel port 145-168				
55	U34	Patch Panel port 121-144				
55	U36	Patch Panel port 97-120				
55	U37	Patch Panel port 73-96				
55	U39	Patch Panel port 49-72				
55	U40	Patch Panel port 25-48				
55	U42	Patch Panel port 1-24				
		RACK ICON +				
55	U1	Modem RAD - E1	PW0413	icon 4401110491	ICON+	belum bisa dibawa keluar karna belum ada suratnya (07102010)
55	U3	Modem RAD RIC - E1 DS3	PW0410			
55	U5	Patch panel LSA			ICON+	
55	U8	Cisco System 7200 series VXR	PW0410		ICON+	
55	U1#2	Telkom Media Converter 10/100 M Dual Speed	PW0410	Jenis SL/OTNUOC-T (m171/100-T-VY1950)	ICON+	belum bisa dibawa keluar karna belum ada suratnya (07102010)
55	U1#3	RAD RIC1-RIC1	PW0410	to Cisco 2800 Indosat	ICON+	
55	U24	Power ONE PMP 746 SIC Repeater	PW0410		ICON+	
55	U24	power Supply	PW0410		ICON+	
		RACK PANEL TELEPHONE				
55	U1	Telephone 8120	PW 0423	to converter RAD E1 icon+	Lintas Arta	
55	U3	Cisco 1900 RV-1020P57-ID-JKT		router Lintas Artha	Lintas Arta	
55	U4#1	Modem Notarola	PW 0423			
55	U4#2	Modem VPN Juniper SSG 5.8	PW 0423			
55	U5	Modem VPN Juniper SSG 5.8 A	PW 0423			
55	U7	Fiber Home/ DTB		to SDH Huawei ICON	ICON+	
55	U9	Cisco 1800 SN: B2W50131041600679	PW 0423		Lintas Arta	
55	U10	Cisco 1800 SN: HK1118PJE		to server RTGS		
55	U11	Converter E1 to V35		for Cloud Reuters	INDOSAT	
55	U13	DTB Indosat/NWC				
55	U14	DTB 11 core		(perangkat risak)		
55	U15	DTB 12 core			Telkom	
55	U16	DTB 12 core			Telkom	
55	U17	Cisco 2000 Telkom) PWK1305F053	PW 0423			
55	U18	Transfon Networks (Telkom) CFSMC1000-2xx	PW 0423	Converter FO to Ethernet	PT.CSM	
55	U21	Cisco 3725 Series (Satkomindo) Sn:MK070304B1	PW 0423		Satkomindo	
55	U24#3	Transfon Networks Single Slot Chassis	PW 0423			
55	U24#2	Transfon Networks Single Slot Chassis (PT.CSM)	PW 0423	Converter FO to Ethernet	PT.CSM	
55	U24	Cisco 2000 PatraKom Telkom	PW 0423		PatraKom	
55	U25	Transfon Networks Single Slot Chassis		Converter FO to Ethernet		
55	U26	Cisco 2000 T Indosat) PWK1327F1AF			Indosat	
55	U28	Cisco Catalyst 3560	PW0416	Switch L3		
55	U31	Patch Panel 170 port (pandit telepon)				

5.3 Update Data DTRA Patch Panel DRC

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 Controller 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 HIIHIX 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 HHS (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.



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

5.4 Update Data Detail Perangkat Network

Bentuk Tabel Data Detail Perangkat Network yang dikerjakan MA-WCS

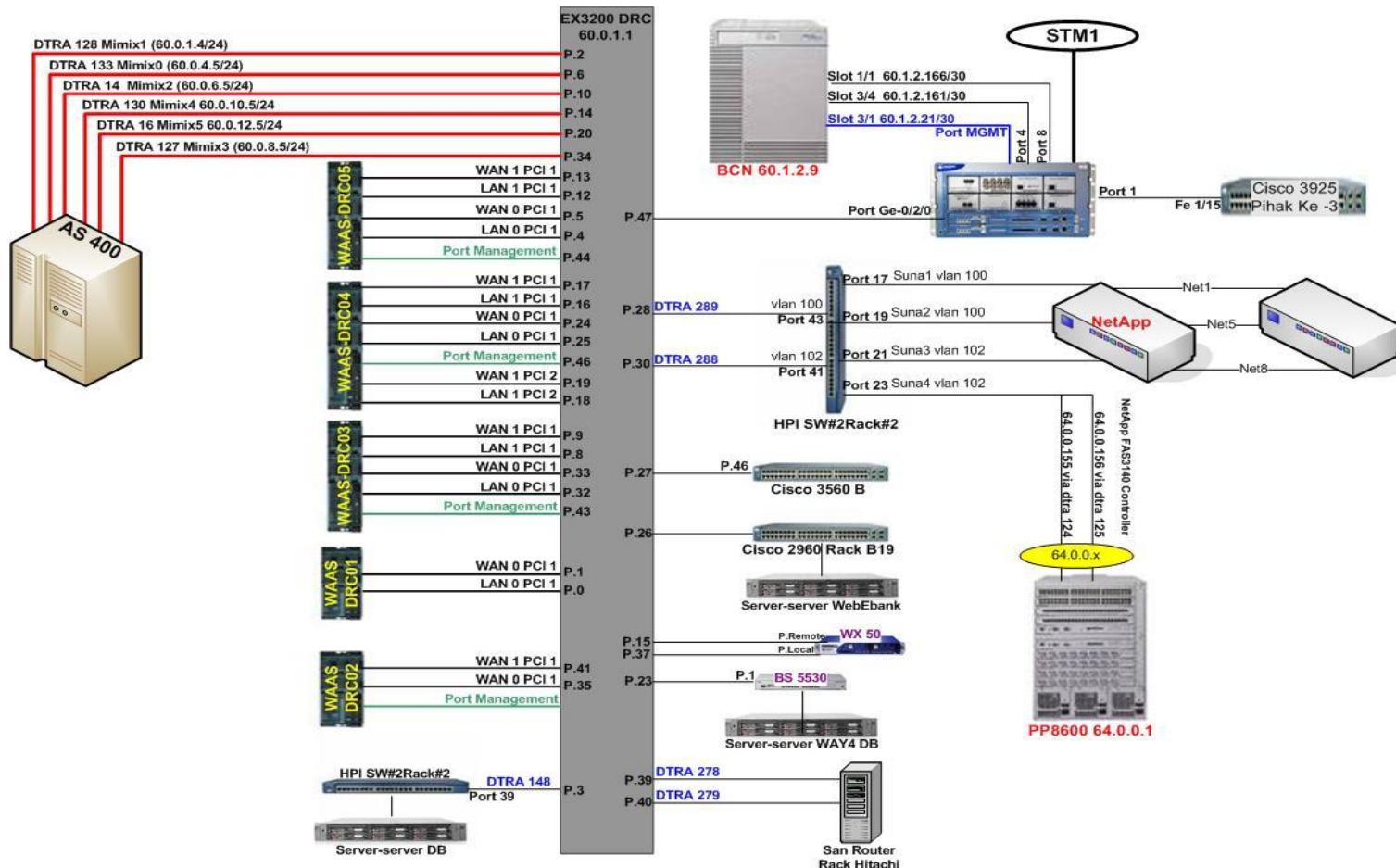
Name	EX3200 Mimix DRC							
IP Address	60.0.1.1							
MAC Address								
Merk	Juniper (EX 3200)							
Firmware	JUNOS 9.2-20081126.1 built 2008-11-26							
EX3200 Mimix A								
Port Num	VLAN ID	VLAN Name	IP	Speed	Access/Trunk	DTRA	Label	Status
0	1	vlan1	60.0.1.x	Auto				Up
1	2	vlan2	60.0.1.1/24	Auto				Up
2	1	vlan1	60.0.1.x	Auto	DTRA 128			Mimix 60.0.1.4 A5400 Rack 2 Frame 2 C12
3	1	vlan1	60.0.1.x	Auto	DTRA 148			Switch HPI Rack 2 p.39
4	6	vlan6	60.0.4.x	Auto				LAN 0 PCI 1 WAAS-DRC05
5	3	vlan3	60.0.4.1/24	Auto				WAN 0 PCI 1 WAAS-DRC05
6	6	vlan6	60.0.4.x	Auto	DTRA 133			Mimix 60.0.4.5 A5400 Rack 1 Frame 2 C12
7	16	vlan16	60.0.16.1/24	Auto				WAN 1 WAAS Edge04-DRC 60.0.8.6 (spare)
8	7	vlan7	60.0.6.x	Auto				LAN 1 PCI 1 WAAS-DRC03
9	4	vlan4	60.0.6.1/24	Auto				WAN 1 PCI 1 WAAS-DRC03
10	7	vlan7	60.0.6.x	Auto	DTRA 14			Mimix 60.0.6.5 A5400 Rack 1 Frame 1 C14 T1
11	18	vlan18	60.0.18.1/24	Auto				Juniper SR-55 Perbit 20 Mbps Port Remote 60.0.18.6/24
12	9	vlan9	60.0.10.x	Auto				LAN 1 PCI 1 WAAS-DRC05
13	10	vlan10	60.0.10.1/24	Auto				WAN 1 PCI 1 WAAS-DRC05
14	9	vlan9	60.0.10.x	Auto	DTRA 130			Mimix 60.0.10.5 A5400 Rack 2 C 14 T2
15	20	vlan20	60.0.20.1/24	Auto				Juniper WX-50 Perbit 6 Mbps Port Remote 60.0.20.6/24
16				Auto				LAN 1 PCI 1 WAAS-DRC04
17				Auto				WAN 1 PCI 1 WAAS-DRC04
18	11	vlan11	60.0.12.x	Auto				LAN 1 PCI 2 WAAS-DRC04
19	12	vlan12	60.0.12.1/24	Auto				WAN 1 PCI 2 WAAS-DRC04
20	11	vlan11	60.0.12.x	Auto	DTRA 16			Mimix 60.0.12.5 A5400 Rack 10 Frame 1 C14 T2
21	11	vlan11		Auto				
22				Auto				
23	17	vlan17	60.0.18.x	Auto				Nortel Baystack 5530 Port 1
24	17	vlan17	60.0.18.x	Auto				WAN 0 PCI 1 WAAS-DRC04
25	18	vlan18	60.0.18.1/24	Auto				LAN 0 PCI 1 WAAS-DRC04
26	14	vlan14	60.0.14.1/24	Auto				Cisco Catalyst 2960 port 24 B19
27				Auto				Cisco 3560 B port 46
28	1	vlan1	60.0.1.x	Auto	DTRA 289			Server HPI Sw2 Rack2 port43
29	1	vlan1	60.0.1.x	Auto				
30	1	vlan1	60.0.1.x	Auto	DTRA 288			Server HPI Sw2 Rack2 port41
31				Auto				
32	8	vlan8	60.0.8.x	Auto				LAN 0 PCI 1 WAAS-DRC03
33	5	vlan5	60.0.8.1/24	Auto				WAN 0 PCI 1 WAAS-DRC03
34	8	vlan8	60.0.8.x	Auto	DTRA 127			Mimix 60.0.8.5 A5400 Rack 2 Frame 1 C14 T1
35				Auto				WAN 0 PCI 1 WAAS-DRC02
36	3	vlan3	60.0.4.1/24	Auto				WAAS 5 Port 2
37	19	vlan19	60.0.20.x	Auto				Juniper WX-50 Perbit 6 Mbps Port Local
38	19	vlan19	60.0.20.x	Auto				Nortel Baystack 420 port 24
39	22	vlan22	60.0.22.1/24	Auto	DTRA 278			San Router Rack Hitachi koordinat Y18
40	24	vlan24	60.0.24.1/24	Auto	DTRA 279			San Router Rack Hitachi koordinat Y18
41				Auto				WAN 1 PCI 1 WAAS-DRC02
42				Auto				Cisco 3560 A port 48
43	2	vlan2	60.0.1.1/24	Auto				Port Management WAAS-DRC03
44	3	vlan3	60.0.4.1/24	Auto				Port Management WAAS-DRC05
45	4	vlan4	60.0.6.1/24	Auto				Port Management WAAS-DRC02
46	5	vlan5	60.0.8.1/24	Auto				Port Management WAAS-DRC04
47	200	vlan200	60.0.197.1/29	Auto				To Juniper M10 Port Ce 0/2/0 p 60.0.197.2 (to M10 DC)

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.

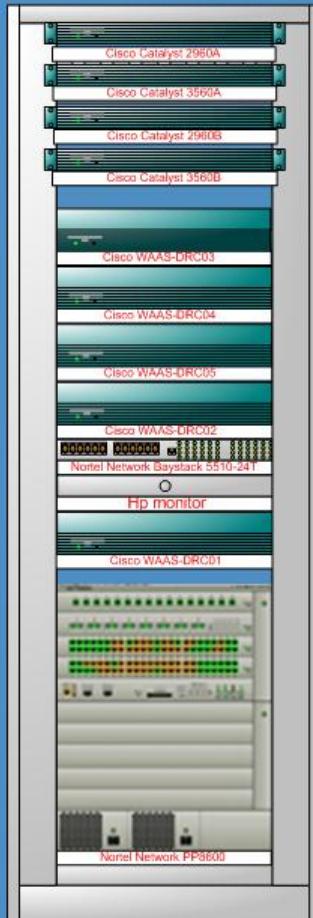
5.5 Update Gambar Network DRC

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	

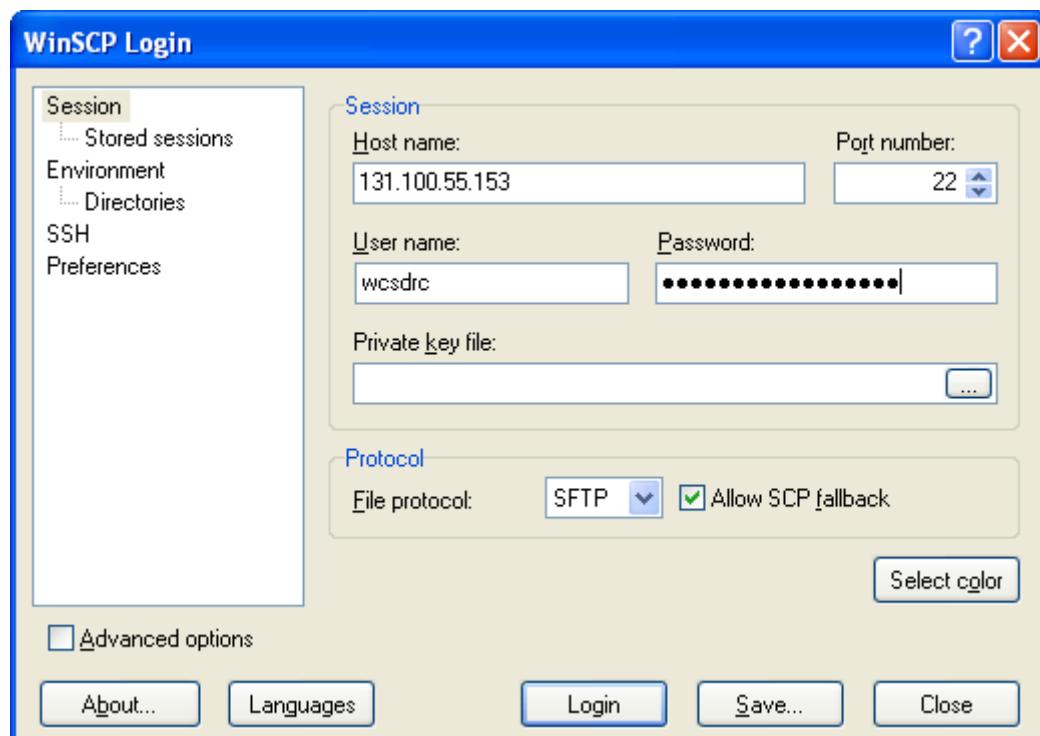
BAB 6. CARA MELAKUKAN *FTP BACKUP CONFIGURATION*

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





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

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 window, titled 'wcsdrc - wcsdrce@131.100.55.153 - WinSCP', shows the local drive C:\Documents and Settings\WCS\My Documents. It lists several files and folders, 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', and 'WIN7PRO'. The right window, also titled 'wcsdrc', shows the remote directory /home/wcsdrc. It lists files such as 'root', '.ssh', '.bash_history', '.bash_logout', '.bashrc', 'examples.desktop', and 'profile'. Both windows have status bars at the bottom showing file counts and sizes.

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 : 12:00:01

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...	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...	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 : 12:00:01

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 : 12:00:01

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/wcsdrce/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/wcsdrce/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 : 12:00:01

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

The screenshot shows the WinSCP interface with two panes. The left pane displays files from the local drive E:\DATA, while the right pane shows the contents of the remote directory /home/wcsdrc. The right pane's title bar indicates the path is /home/wcsdrc.

Name	Ext	Size	Type	Changed	Attr
..			Parent directory	9/10/2010 5:43:31 AM	
B2N.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

Name	Ext	Size	Changed	Rights	Owner
..			8/10/2010 1:43...	rwxr-xr-x	root
root			9/8/2010 6:05...	rwxr-x---	wcsdrc
.ssh			3/10/2010 7:01...	rxw----	wcsdrc
.bash_history		2,241	7/7/2010 11:17...	rw----	wcsdrc
.bash_logout		220	1/22/2010 11:5...	rw-r----	wcsdrc
.bashrc		3,115	1/22/2010 11:5...	rw+r-rn	wcsdrc
examples.desktop		357	1/22/2010 11:5...	rw+r-rn	wcsdrc
.profile		675	1/22/2010 11:5...	rw+r--r	wcsdrc

The screenshot shows the WinSCP interface with two panes. The left pane displays files from the local drive E:\DATA, while the right pane shows the contents of the remote directory /home/wcsdrc/root. The right pane's title bar indicates the path is /home/wcsdrc/root.

Name	Ext	Size	Type	Changed	Attr
..			Parent directory	9/10/2010 5:43:31 AM	
B2N.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

Name	Ext	Size	Changed	Rights	Owner
..			7/3/2010 9:24...	rwxr-xr-x	wcsdrc
ARCHIVE			9/1/2010 9:40...	rwxr-x---	wcsdrc
b2n			9/1/2010 9:49...	rw----	wcsdrc
cat45A			9/1/2010 9:52...	rw----	wcsdrc
cat45B			9/1/2010 9:54...	rw----	wcsdrc
EX8200A			9/1/2010 9:55...	rw----	wcsdrc
EX8200B			9/1/2010 9:56...	rw----	wcsdrc
EXMMIX32			9/1/2010 9:57...	rw----	wcsdrc
Jseries			9/8/2010 12:41...	rw----	wcsdrc
M10			9/9/2010 8:42...	rw----	wcsdrc
PP8600			9/8/2010 12:43...	rw----	wcsdrc
SRXA			9/8/2010 12:43...	rw----	wcsdrc
SRXB			9/8/2010 12:43...	rw----	wcsdrc



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

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

SFTP-3 0:05:15



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

- Untuk kolom daerah PC WCS DRC dalam folder [archive](#) , block semua file format .tar

The screenshot shows a WinSCP session titled "Archive - wcsdrc@131.100.55.153 - WinSCP". The left pane displays the contents of the local drive E:\DATA, while the right pane shows the contents of the remote directory /home/wcsdrc/root/ARCHIVE/09. Both panes have columns for Name, Ext, Size, Type, Changed, Attr/Rights, and Owner.

Local (E:\DATA) File List:

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
Cal 4500 A.tar	.tar	7,168	WinRAR archive	9/10/2010 5:39:55 AM	a
Cal 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
EX3200IMIX.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

Remote (/home/wcsdrc/root/ARCHIVE/09) File List:

Name	Ext	Size	Changed	Rights	Owner
..			9/9/2010 8:33...	rwxr-xr-x	wcsdrc

At the bottom, status bars show "143 KB of 143 KB in 9 of 9" and "0 B of 0 B in 0 of 0". The taskbar includes icons for F2 Rename, F4 Edit, F5 Copy, F6 Move, F7 Create Directory, F8 Delete, F9 Properties, F10 Quit, SFTP-3, and a clock showing 0:05:39.

6. Kemudian drag file tersebut ke kolom daerah FTP Server

The screenshot shows the WinSCP graphical user interface. A 'Copy' dialog box is open in the foreground, prompting the user to copy files to a remote directory: '/home/wcsdrc/root/ARCHIVE/09 - September 2010/10092010/'. The dialog includes 'Transfer settings' and 'Default transfer settings' buttons, as well as checkboxes for 'New and updated file(s) only', 'Transfer on background (add to transfer queue)', 'Do not show this dialog box again', and 'Transfer each file individually'. Below the dialog are two file browser windows. The left window shows a local directory 'E:\DATA\Backup\Config\Network\Archive' containing various WinRAR archive files. The right window shows a remote directory '/home/wcsdrc/root/ARCHIVE/09 - September 2010/10092010' containing a single file '10092010'. The bottom status bar indicates '143 KB of 143 KB in 3 of 9' and '0 B of 0 B in 0 of 0'.



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

Archive - wcsdrc@131.100.55.153 - WinSCP

E:\DATA\OPERASIONAL\2010\09_September\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 - Outl... Micros... Notepad Graphs -> Tera Te... Traffic Anal... Backup Con... Archive - w... 8:30 AM

7. Setelah selesai melakukan FTP , close aplikasi WinSCP

wcsdrc - wcsdrc@131.100.55.153 - WinSCP

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



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

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
PT. WAHANA CIPTA SINATRIA Network System Integrator, Communications & Services Wisma Cormic Jl. Suryoprano No 1-9 Tel : 62-21-3501555 Fax : 62-21-3866128									
1	1/5/2012 14:00	1/5/2012 14:01	1 menit	Nugroho Pancayogo	TSL_ODR	Network	Catalyst 2950 Web-Ebank	Disable Port 41 switch rack 1 83 server HP1 to Catalyst 2950 Web-Ebank Port 18	Wahyu N
2	1/5/2012 14:05	1/5/2012 14:06	1 menit	Nugroho Pancayogo	TSL_ODR	Network	Catalyst 2950 Web-Ebank	Disable Port 43 switch rack 1 83 server HP1 to Catalyst 2950 Web-Ebank Port 6	Wahyu N
3	1/5/2012 15:05	1/5/2012 15:06	1 menit	Nugroho Pancayogo	TSL_ODR	Network	PP8600	Delete Ip Address di PP8600 Pool 3 Ip 66.0.0.250	Wahyu N
4	1/5/2012 16:00	1/5/2012 16:05	5 menit	Nugroho Pancayogo	TSL_ODR	Network	PP8600	Penarikan Kabel dari PP8600 Port 24 ke AS400 Ip 65.0.0.X via DTRA 119	Wahyu N
5	1/5/2012 16:06	1/5/2012 16:07	1 menit	Nugroho Pancayogo	TSL_ODR	Network	PP8600	Penarikan Kabel dari PP8600 Port 45 ke AS400 Ip 66.0.0.X via DTRA 18	Wahyu N
6	16/05/12 07:00	16/05/2012 10:00	3 jam	-	-	-	-	Way 4 kompresi hanya 1x, setelah report ke DC lalu ditangani OJK kompresi kembali berjalan normal	Nugraha Pratama
7	24/05/12 14:00	24/05/12 14:30	30 menit	Nurdin	TSL_ODR	Network	-	Penarikan kabel dari EX6208 A Port 20 ke Catalyst 2950 Port 24 Koordinat P23	Nugraha Pratama
8	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
9	28/05/12 03:38	28/05/12 04:13:00	35 Menit			Network	Network	Down Link STMTI DRC-SUD via TELKOM	Ediyanto
10	28/05/12 05:26:40	28/05/12 05:27:04	24 detik			Network	Network	Flapping Link STMTI DRC-SUD via TELKOM	Ediyanto
11	28/05/12 05:31:13	28/05/12 05:31:46	33 detik			Network	Network	Flapping Link STMTI DRC-SUD via TELKOM	Ediyanto
12	28/05/12 06:00:06	28/05/12 06:00:41	35 detik			Network	Network	Flapping Link STMTI DRC-SUD via TELKOM	Ediyanto
13	28/05/12 06:04:07	28/05/12 06:04:37	30 detik			Network	Network	Flapping Link STMTI DRC-SUD via TELKOM	Ediyanto
14	28/05/12 06:13:11	28/05/12 06:13:42	31 detik			Network	Network	Flapping Link STMTI DRC-SUD via TELKOM	Ediyanto
15	28/05/12 06:33:37	28/05/12 06:34:08	31 detik			Network	Network	Flapping Link STMTI DRC-SUD via TELKOM	Ediyanto
16	28/05/12 07:10:55	28/05/12 07:11:22	27 detik			Network	Network	Flapping Link STMTI 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 STMTI DRC-SUD via TELKOM	Ediyanto
23								Flapping Link STMTI 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 STMTI DRC-SUD via TELKOM	



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

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

Cc: tsi_odr@bri.co.id; doni135@gmail.com; eos.bri@jkt.iconpln.co.;eos.bri@iconpln.co.id ; icon_bri@yahoo.com ; muhamed.arifin@jkt.iconpln.co.id ; gunawan.amin@ipnetsolusindo.com; anzhari.purnomo@ipnetsolusindo.com; wildan.fauzi@ipnetsolusindo.com ; johan@ipnetsolusindo.com

Sent: Sunday, December 18, 2011 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	No Reg	Tgl/bln/thn	Kasus	Penyebab	Jam mulai	Jam selesai	Keterangan
1	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
```

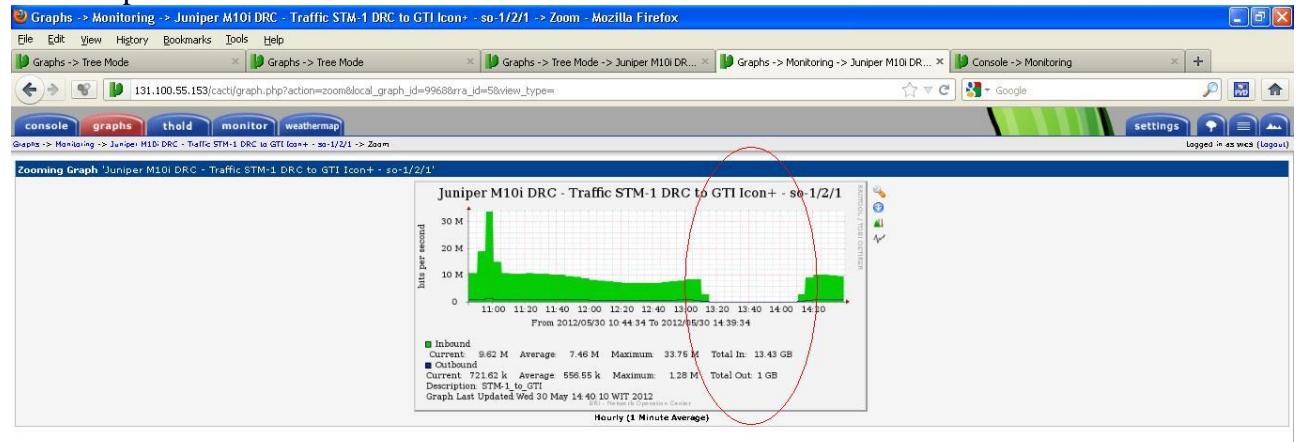
```
wcsdrc@cacti: ~
(realm ospf-v2 so-0/3/0.0 area 0.0.0.0) state changed from Full to Down due to KillNbr (event reason: interface went down)
May 30 13:10:52 M10-GTI rpd[1433]: RPD_RSVP_NBRDOWN: RSVP neighbor 192.168.2.10
down on interface so-0/3/0.0, triggered by IGP neighbor down event
May 30 13:10:52 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 : 12:00:01

Hasil Capture Cacti :



Regards

Nugraha Pratama
WCS DRC



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

BAB 8. JADWAL MA - WCS

		Jadwal WCS DRC																																	
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																														0				
	Shift 3																														0				
	Total																														21	2			
Yudi	Shift 1			1																												1	1		
	Shift 2	2	2						2	2						2	2				2	2									10				
	Shift 3	3				3	3				3	3					3	3				3	3								10				
	Total																														21	1			
Ediyanto	Shift 1																	1														1	2		
	Shift 2			2	2					2	2					2	2				2	2								10					
	Shift 3	3	3			3	3			3	3			3	3	2	2			3	3	2	2						10						
	Total																														21	2			
Malvin	Shift 1		1						1																							1	1		
	Shift 2	2					2	2							2	2			2	2											10				
	Shift 3		3	3					3	3				3	3			3	3			3	3								10				
	Total																														21	1			
		Keterangan																																	
		Note : Hari kerja kantor = 21 hari																																	
		Tabanan, 30 Mei 2012 Mengetahui																																	
		Nugraha Pratama WCS																																	
		Supervisor BRI																																	



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

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 : 12:00:01

Requested by	: nama yang meminta request beserta departemen nya .
Ref.#	: nomor urutan pencatatan XXX-MA/DRC/bulan/Tahun
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 : 12:00:01

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 : 12:00:01

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
(.....)	(.....)
Mengetahui,	
(.....) Kabag/Wakabag -ODR	



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

D. Bentuk Berita Acara Preventive Maintenance MA-WCS

BERITA ACARA
PERANGKAT MAINTENON
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
<u>(.....)</u>	
	<u>(.....)</u>



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

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.

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



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

F. Bentuk Checklist MA – WCS

CHECKLIST WCS DRC

Shift :	Date :					
Checked by :	Time :					
Device Name : BCN Firmware : 3.5.1.0						
BCN						
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			
Back Panel						
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			
Device Name : Juniper M10i						
Slot	Module	Indicator	Status DS3 :	CPU Utilization Slot 0: %	Remark	
RE0/0	PICS module	Normal	Check	Problem description		
		Major	Off			
		Minor	Off			
		Pwr	Green			
		Master	Blue			
RE0/1	PICS module	Major	Off			
		Minor	Off			
		Pwr	Green			
		Master	Off			
RE0/0	RE-400	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			
Device Name : Juniper J6350						
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		
Back Panel						
Slot	Module	Indicator	CPU Utilization :	%	Remark	
PSU 1	Power Supply	Status	Green			
PSU 2	Power Supply	Status	Green			
Device Name : Passport 3600 Firmware : 3.5.1.0						
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			
Device Name : Juniper EX 3200						
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					
Device Name : Baystack 5510 Firmware : 1.000.19						
Indicator	Normal	Check	Problem description		Remark	
		User	RTGS	User	RTGS	
Power	Green					
Base	Off					
Up *	Off					
Down *	Off					



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

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			
EX 8208			Alarm	Red								
			SYS	Orange								
			MST	Green								
Slot	Module	Indicator	Normal		Check		Problem description				Remark	
0	EXR208 48T	ON	Green		A	B	A		B		Module Ethernet 48 T switch	
		ST	Green									
SRE 0	EXR208 SRE 320	ON	Green									
		ST	Green									
SF	EX 8208 SF 320	MS	Green									
		SF	Green									
SRE 1	EXR208 SRE 320	ON	Green									
		ST	Green									
PSU0	Power Supply	ST	Green									
		MS	Green									
PSU1	Power Supply	Blinking	Green									
		SF	Green									
PSU2	Power Supply	Blinking	Green									
		ON	Green									
PSU3	Power Supply	Input OK	Green									
		Output OK	Green									
Device Name : Juniper SRX3400			CPU Utilization A Slot 0 :		% CPU Utilization B Slot 0 :		CPU Utilization A Slot 0 :		% CPU Utilization B Slot 0 :		%	
			Indicator	Normal	Check		Problem description				Remark	
			A	B	A		A		B			
SRX			Alarm Yellow	Off								
			Alarm Red	Off							if Problem Led will ON	
			SFB	Green								
			HA	Off								
			CFM Service	Green								
			CFM OK/Fail	Green								
			RE 0	Green								
			RE 1	Off								
			PWR	Green								
			FAN	Green								
Back Panel			Check		Problem description						Remark	
Slot	Module	Indicator	Normal		A	B	A		B			
PSU PEM 0	Power Supply	Status	Green									
PSU PEM 1	Power Supply	Status	Green									
Slot 5	SRX3K-NPC	Service	Green									
		OK/Fail	Green									
Slot 6	SRX3K-SPC-0-10-40	Service	Green									
		OK/Fail	Green									
RE 0	Online	OK/Fail	Green									
		Master	Blue									
	Routing Engine	Status	Green									
		HDD	Off									
	PFE Controller	Status	Green									
Device Name : Cisco Catalyst 4506			CPU Utilization A :		% CPU Utilization B :		CPU Utilization A :		% CPU Utilization B :		%	
			Indicator	Normal	Check		Problem description				Remark	
			A	B	A		A		B			
Cisco 4506			Fan Status	Green								
Slot	Module	Indicator	Normal		Check		Problem description				Remark	
1	WS-X4515 Supervisor Engine IV	Status	Green									
2	48 port Multi-Speed Gigabit Ethernet Switching Module	Status	Green									
PSU 1	Power Supply	Input OK	Green									
		Fan OK	Green									
PSU 2	Power Supply	Output Fail	Green									
		Input OK	Green									
		Fan OK	Green									
		Output Fail	Green									

Accepted by,

Approved,

(PT. Wahana Cipta Sinatra)

(PT. Bank Rakyat Indonesia)



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

G. Contoh Change Request MA – WCS

Change Request Form WCS		
Requested by :		
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		
Change type :		
<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
Change description :		
Terkait di pindahnya koneksi dari Router AIM-VPN dan Baystack 5510 Pihak Ke-3 ke Firewall Checkpoint maka dilakukan update Topologi terbaru DRC		
Remarks :		
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		
*Topologi update terlampir		
Change Approval : Bank Rakyat Indonesia /	WCS Operation : 	Requester
Warjito	Wildan Fauzi	Nugroho Pancayogo
Date : 24/01/2011	Date : 24/01/2011	Date : 24/01/2011
Review/Assessment Result : _____ _____ _____		
*) Please specify		