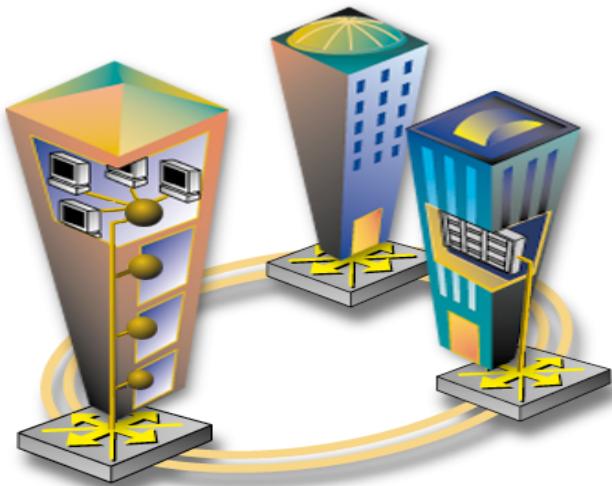


HOST OPERATIONAL PROSEDURE

(HOP)

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



DIS/PAN-04-01-00 : 13:00:00

Oleh:

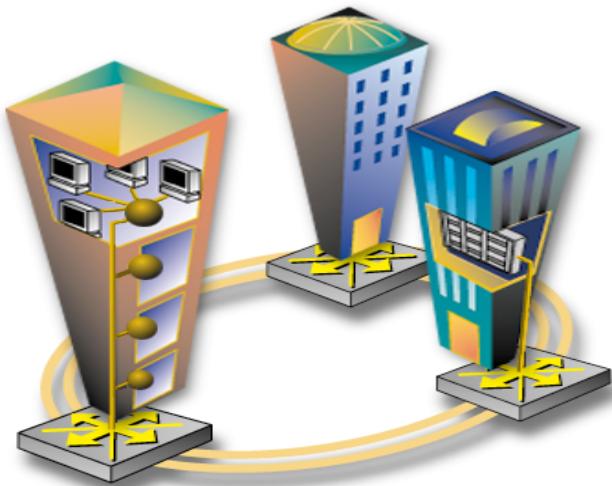


PT. Wahana Cipta Sinatra
Network System Integrator, Communications & Services
Wisma Cormic. Jl. Suryopranoto 1-9, Jakarta 10160
Telp. 021-3501555, Fax. 021-3866128

HOST OPERATIONAL PROSEDURE

(HOP)

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



DIS/PAN-04-01-00 : 13:00:00

Oleh:



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Network System Integrator, Communications & Services
Wisma Cormic. Jl. Suryopranoto 1-9, Jakarta 10160
Telp. 021-3501555, Fax. 021-3866128

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DAFTAR ISI

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BAB 1. PENDAHULUAN

1.1. Tujuan

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

1.2. Pemakai

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

13. Pengontrolan Versi

Host Operational Procedure Data Recovery Centre (HOP-DRC) *Network Switching* merupakan sarana atau alat manajemen BRI dan PT. Wahana Cipta Sinatra 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	
DIS/PAN-04-01-00: 12:01:00	01/10/2012	▪ 2 Poin Perubahan isi	
DIS/PAN-04-01-00: 13:00:00	05/09/2013	▪ 5 Poin Perubahan Isi	

1.3.3 Penjelasan Perubahan Isi

Penjelasan Perubahan Isi	
No	DIS/PAN-04-01-00: 13:00:00, 05 September 2013
1	<p>Perubahan isi BAB.1 PENDAHULUAN point 1.2 Pemakai Update penggunaan dokumen ini</p>
2	<p>Perubahan isi BAB.2 UMUM Perubahan point 2.3 Maintanance & Operasional Konektivitas Jaringan DC-DRC Update kegunaan BCN & Juniper M10i Perubahan point 2.4 Sistem Reporting Update pengiriman Laporan Harian (<i>Daily Report</i>) & Laporan Bulanan (<i>Monthly Report</i>) Perubahan point 2.5 Network Diagram LAN-DRC Update topologi LAN-DRC ke versi terbaru</p>
3	<p>Perubahan isi BAB.3 PROSEDUR OPERASIONAL Update isi point 3.1.2 EX8200 Update isi point 3.1.3 Nortel Baystack 5530 dan Baystack 5510 Update isi point 3.1.4 Juniper EX3200 Update isi point 3.1.6 Juniper J6350 Update isi point 3.1.7 Juniper M10i Update isi point 3.1.8 Catalyst 4503 Penghapusan point 3.1.8 Juniper SRX 3400 Perubahan isi point 3.2 Membuat Daily Report Buka index.htm di Web Mozilla atau IE , pada kolom bar address isi 131.100.55.58/cacti Penambahan Capture Traffic MIMIX 60.0.6.5 P/6 Penambahan Capture LAN 0 WAAS 5 60.0.4.6 P/4 Penambahan Capture WAN 0 WAAS 5 60.0.4.6 P/5 Penambahan Capture Traffic NetApp EX3200 P/28 Revisi title Capture WAY4 menjadi Capture WAY4 & Mainframe Perubahan point 3.4 Capture Traffic (RPO) Revisi contoh hasil capture RPO Buka index.htm di Web Mozilla atau IE , pada kolom bar address isi 131.100.55.58/cacti Penambahan Capture RPO with Compression MIMIX 60.0.6.5</p>



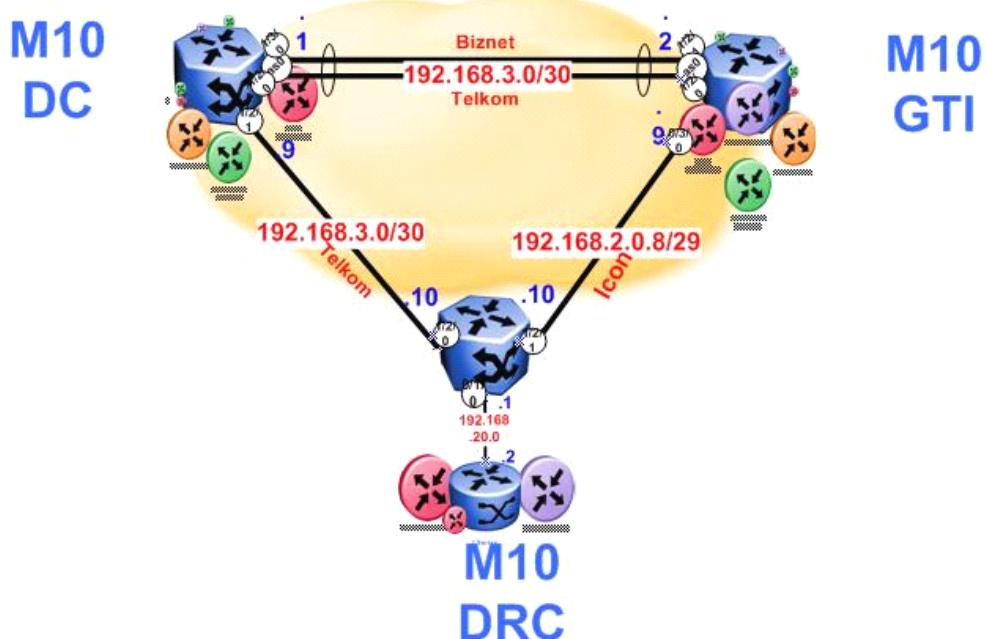
DIS/PAN-04-01-00 : 13:00:00

	Penambahan Traffic NetApp EX3200 P/28 Penambahan point 3.8 Membuat Monthly Report
4	Perubahan isi BAB.7 ESKALASI MASALAH
5	Perubahan isi LAMPIRAN. F. Bentuk Checklist MA-WCS Update bentuk checklist dengan versi yang baru

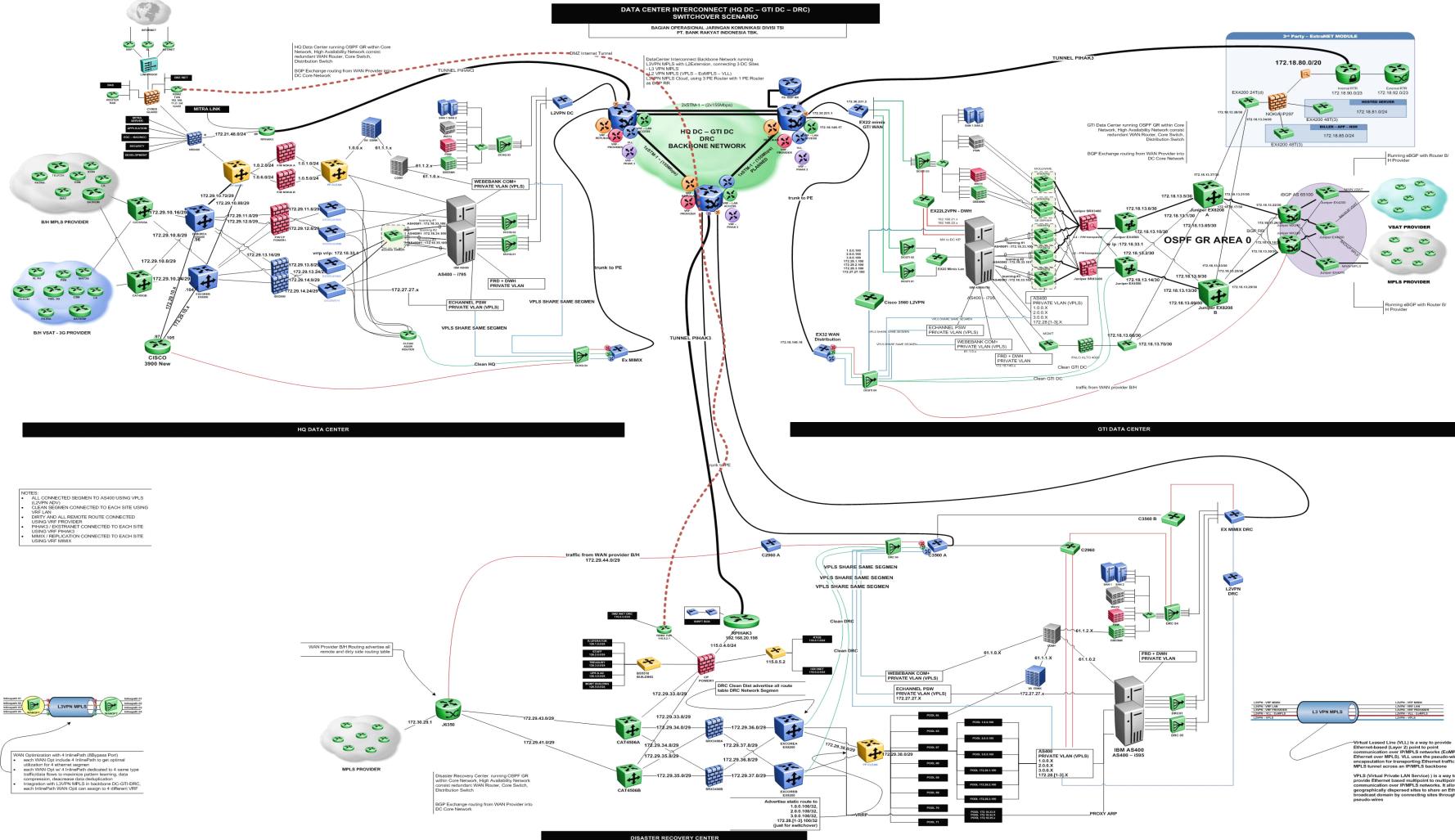
BAB 2. UMUM

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 Sudirman -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 untuk komunikasi ke DC.

Juniper M10i

Juniper M10i digunakan sebagai Gateway koneksi DRC-DC. Juniper M10i ini terkoneksi dengan jaringan link Telkom (STM 1) dan jaringan link ICON+ (STM1).



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2.4 Sistem Reporting.

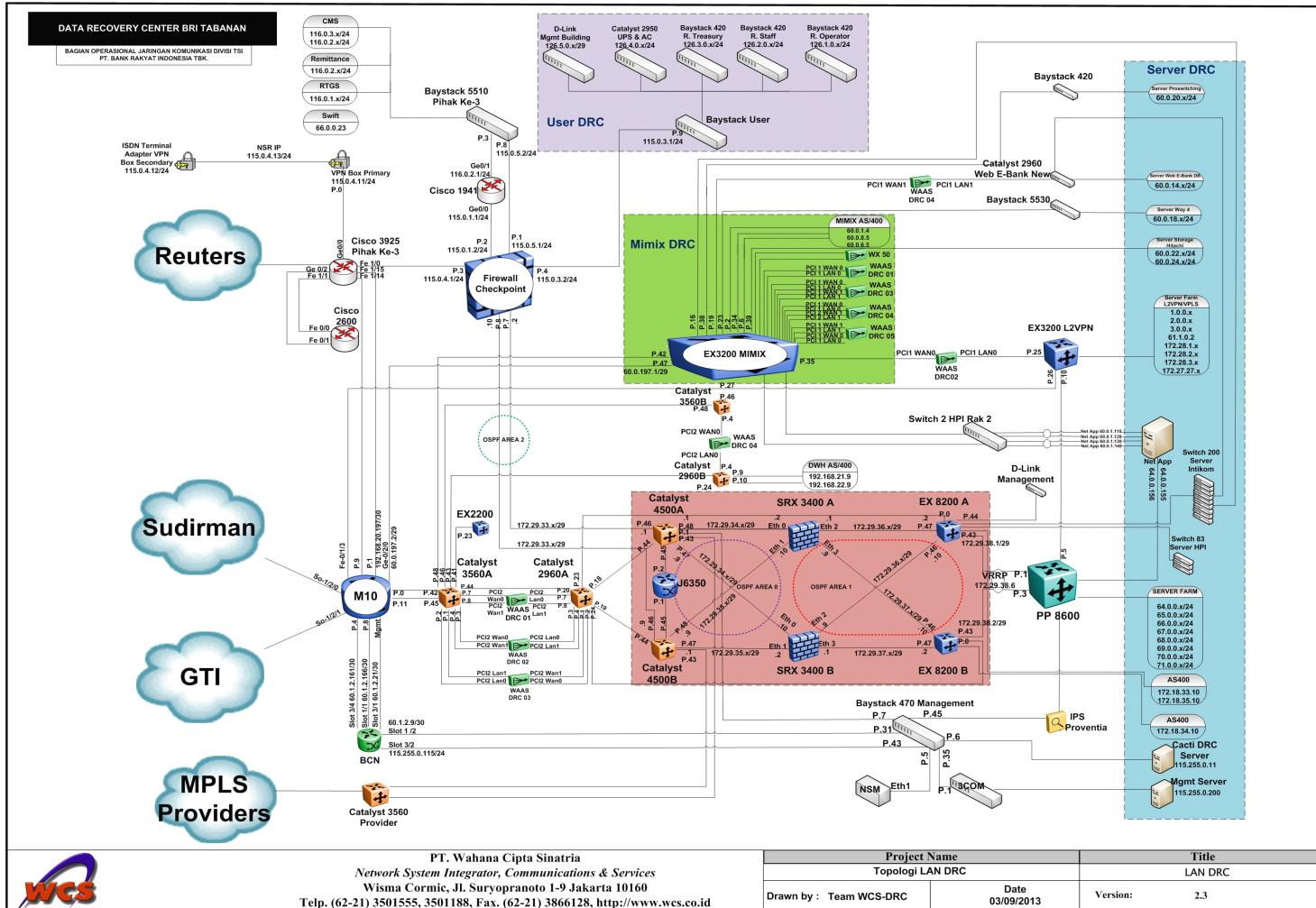
Laporan Harian (*Daily Report*)

Laporan Harian dibuat setiap hari dengan format ekstensi doc dan dikirim melalui email tsi_odr@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.

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.

```
*****  
* Copyright (c) 2003 Nortel Networks, Inc. *  
* All Rights Reserved *  
* Passport 8010 *  
* Software Release 3.5.1.0 *  
*****  
Login:
```

Masukkan username dan Password.

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

Led Indikator Modul 8608SX

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

3.1.1.2 Melihat Performance Passport 8600

Command :

PP8600-DRC:6# sh sys perf

```

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

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

PORT      AUTO    SFFD   ADMIN   OPERATE  DIFF-SERV   QOS   MLT   VENDO
NUM       TYPE     NEG.   DUPLEX  SPD      EN        LVL   ID    NAME
-----  -----  -----  -----  -----  -----  -----  -----  -----
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   100    full  100    fals  core  1   0
--More-- (q = quit)
```

3.1.1.4 Melihat Traffic Error

Command :

PP8600-DRC:6# show ports error collision

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

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



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Command :

PP8600-DRC:6# show ports error extended

```
cv 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

```
cv 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   PORT      MTU    PHYSICAL
NUM       INDEX DESCRIPTION      TRAP    LOCK      MTU    ADDRESS
ADMIN     OPERATE
=====
1/1        64      100BaseTX      true   false     1950  00:11:f9:12:d0:00 up      down
1/2        65      100BaseTX      true   false     1950  00:11:f9:12:d0:01 up      down
1/3        66      100BaseTX      true   false     1950  00:11:f9:12:d0:02 up      down
1/4        67      100BaseTX      true   false     1950  00:11:f9:12:d0:03 up      down
1/5        68      100BaseTX      true   false     1950  00:11:f9:12:d0:04 up      down
1/6        69      100BaseTX      true   false     1950  00:11:f9:12:d0:05 up      down
1/7        70      100BaseTX      true   false     1950  00:11:f9:12:d0:06 up      down
1/8        71      100BaseTX      true   false     1950  00:11:f9:12:d0:07 up      up
1/9        72      100BaseTX      true   false     1950  00:11:f9:12:d0:08 up      up
1/10       73      100BaseTX      true   false     1950  00:11:f9:12:d0:09 up      up
1/11       74      100BaseTX      true   false     1950  00:11:f9:12:d0:0a up      up
1/12       75      100BaseTX      true   false     1950  00:11:f9:12:d0:0b up      up
1/13       76      100BaseTX      true   false     1950  00:11:f9:12:d0:0c up      up
1/14       77      100BaseTX      true   false     1950  00:11:f9:12:d0:0d up      up
1/15       78      100BaseTX      true   false     1950  00:11:f9:12:d0:0e up      up
--More-- (q = quit)
```

3.1.1.6 Melihat IP VLAN

Command :

PP8600-DRC:6# show vlan info ip

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

3.1.1.7 Melihat Nama VLAN

Command :

PP8600-DRC:6# show vlan info basic

```

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

```

3.1.1.8 Melihat Port Anggota VLAN

Command :

PP8600-DRC:6# show vlan info port

```

Telnet 64.0.0.1
PP8600-DRC:6# show vlan info port
=====
          Vlan Port
=====
VLAN      PORT MEMBER      ACTIVE MEMBER      STATIC MEMBER      NOT_ALLOW MEMBER
ID        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

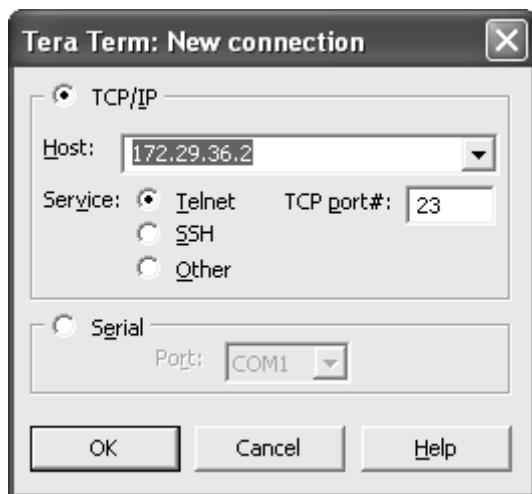
```

Telnet 64.0.0.1
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 dan atas sepengetahuan Bagian Operasional Disaster Recovery BRI.

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 @% clt
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$7jGQ5K.x$XT5c6E70ekIjWPOQECffl."; ##
        SECRET-DATA
    }
    login {
        user ipnet {
            uid 2002;
            class super-user;
            authentication {
                encrypted-
                password"$1$9hhAoqqw$LHCi.XupFgCw3n9JCBVkj0"; ##
                SECRET-DATA
            }
        }
    }
---(more)---
```

3.1.2.4 Melihat Routing

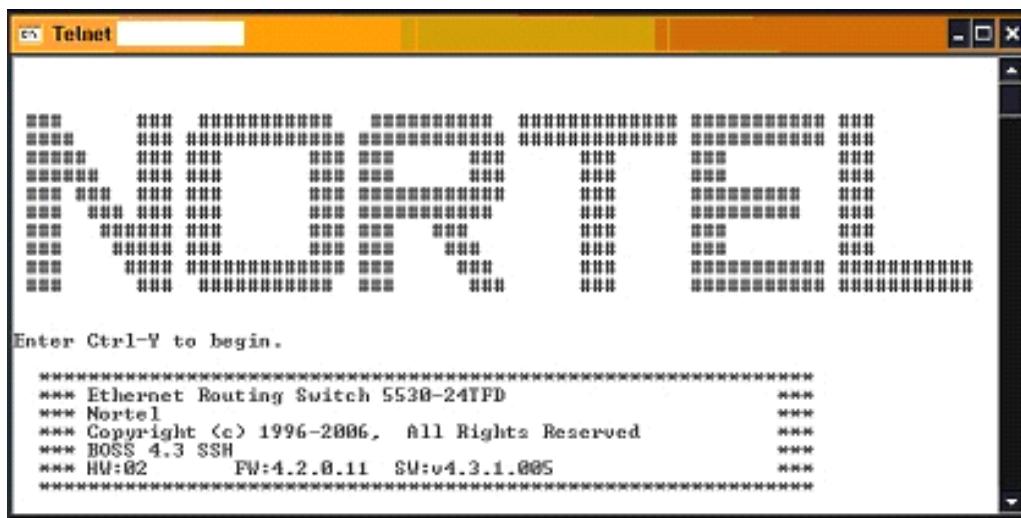
Command :

```
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 dan atas sepengetahuan Bagian Operasional Disaster Recovery BRI. 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	Dapat tegangan listrik
Setelah 20 detik dari Power on	Off	Tidak dapat tegangan listrik dan Switch belum normal
Speed	Orange	Switch Mbps
Link/Act	Orange Blinking	Power on Receive and Transmit data

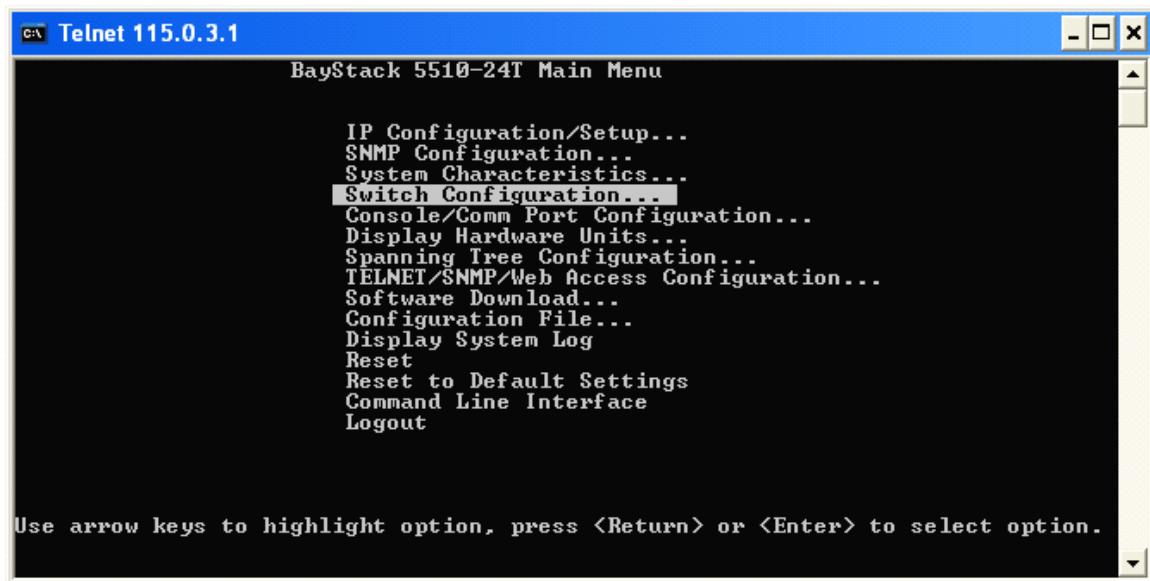
LED Indicator BayStack 5510

Label	Warna/Status	Deskripsi
Power On	Hijau	Dapat tegangan listrik
Setelah 20 detik dari saat power on	Off	Tidak dapat tegangan listrik
	Hijau	Power on self-test complete dan switch bekerja normal

Base	Off Hijau Orange Off	Switch gagal melakukan self-test 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



DIS/PAN-04-01-00 : 13:00:00

	VLAN #	Port	None	0x0000	Yes	IVL	No
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					
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

Ip Route							
DST	MASK	NEXT	COST	VLAN	PORT	PROT	TYPE
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 Route, 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 ENABLE	MASK	NEXT	COST	PREF	LCLN	HOP	STATUS
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

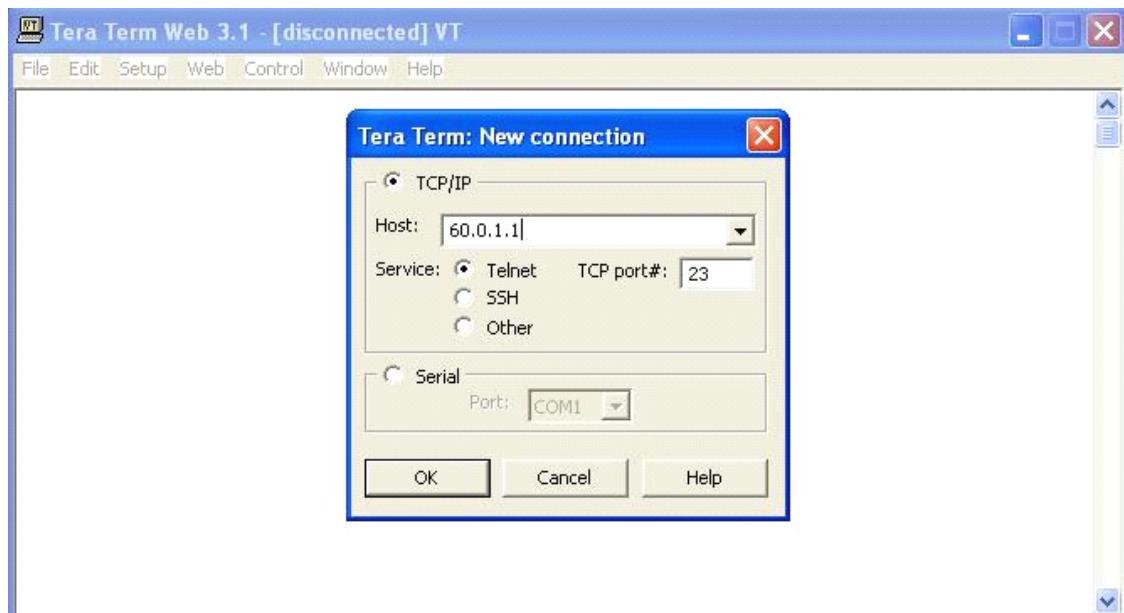
```
BS5510-DRC#show ip arp
```

IP Address	Age (min)	MAC Address	VLAN-Port/Trunk	Flags
126.1.0.255	0	ff:ff:ff:ff:ff:ff	VLAN#2	LB

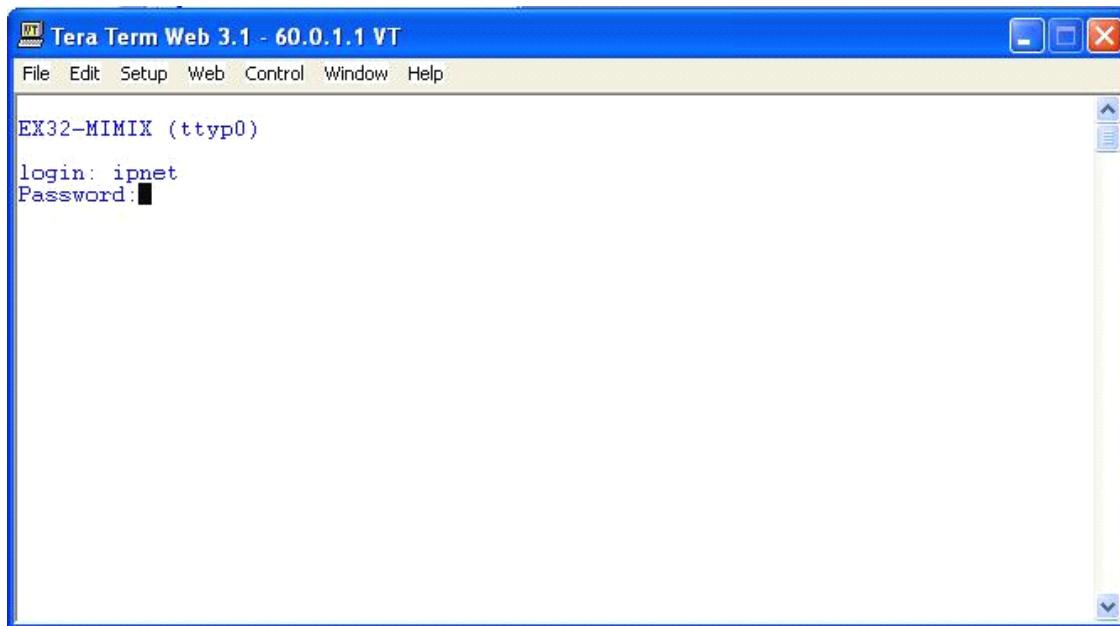
126.2.0.255	0	ff:ff:ff:ff:ff:ff VLAN#3	LB
126.3.0.255	0	ff:ff:ff:ff:ff:ff VLAN#4	LB
115.0.3.255	0	ff:ff:ff:ff:ff:ff VLAN#5	LB
126.4.0.255	0	ff:ff:ff:ff:ff:ff VLAN#6	LB
126.5.0.7	0	ff:ff:ff:ff:ff:ff VLAN#7	LB
60.3.0.255	0	ff:ff:ff:ff:ff:ff VLAN#200	LB

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 dan atas sepengetahuan Bagian Operasional Disaster Recovery BRI.

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

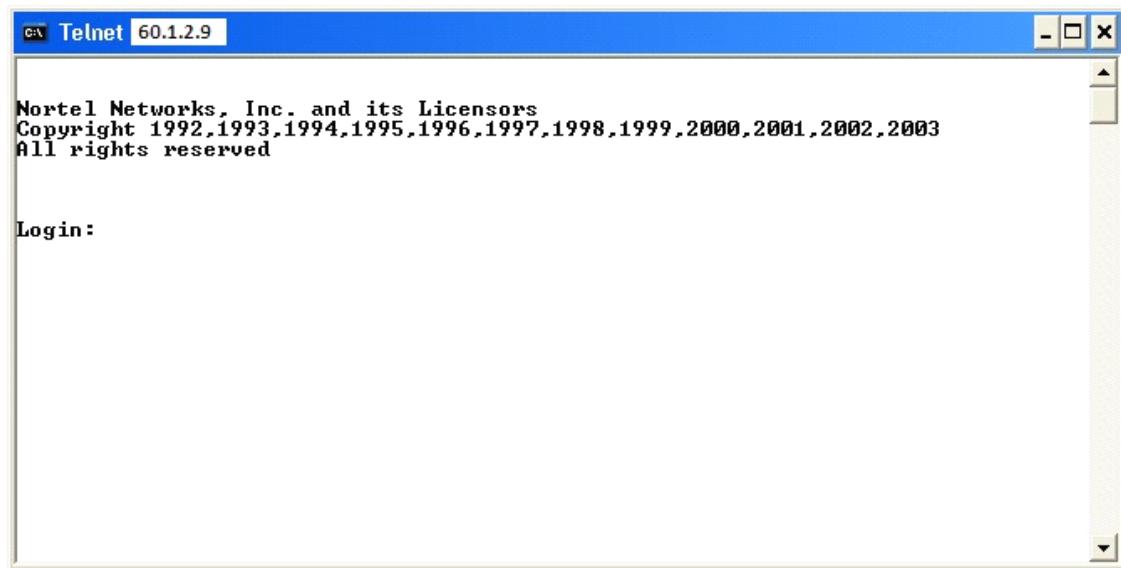
3.1.4.4 Melihat Routing

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          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.



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

```

Telnet 115.0.1.1

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

```
ex Telnet 115.0.1.1
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

```
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 60.0.1.1
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.

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

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
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 "$1$nJ0lkNPz$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
```

Fan speed	Yellow alarm		Red alarm			
Item	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
```



DIS/PAN-04-01-00 : 13:00:00

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

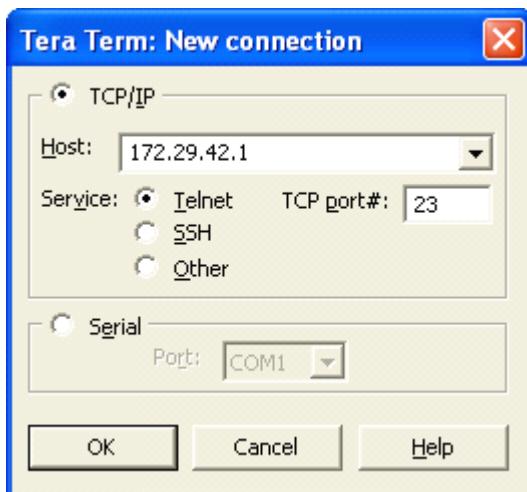
Total entries: 10

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 ttyp0
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]
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 ttyp0
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 dan atas sepengetahuan Bagian Operasional Disaster Recovery BRI.

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	115.0.1.1/2
------------	----	----	------	-------------

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
  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
```



DIS/PAN-04-01-00 : 13:00:00

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
```

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
tosize>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 Catalyst 4503

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

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

Masukkan username dan Password.

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

3.1.8.1 Melihat Status Interface

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

3.1.8.2 Melihat Konfigurasi Yang Sedang Berjalan

```
BRI-DRC-CAT45-A#show running-config
Building configuration...
Current configuration : 6474 bytes
!
! Last configuration change at 11:13:09 WIB Fri Sep 7 2012 by ipnet
! NVRAM config last updated at 11:14:17 WIB Fri Sep 7 2012 by ipnet
!
version 12.2
no service pad
service timestamps debug datetime msec
service timestamps log datetime msec
no service password-encryption
service compress-config
!
hostname BRI-DRC-CAT45-A
!
boot-start-marker
boot-end-marker
!
no logging console
enable secret 5 $1$LQFm$P4kAYAMMqJrSfIEuIJKX3.
!
username ipnet privilege 15 secret 5 $1$CWvG$F/zRT5HdIsgEEbuDSml2L/
username ojk privilege 15 secret 5 $1$.GFC$vcwq8gyO0gKwxa4d1F7cV0
no aaa new-model
clock timezone WIB 7
```

3.1.8.3 Melihat Routing

```
BRI-DRC-CAT45-A#show ip route
Codes: C - connected, S - static, R - RIP, M - mobile, B - BGP
      D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area    N1 -
      OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
      E1 - OSPF external type 1, E2 - OSPF external type 2
      i - IS-IS, su - IS-IS summary, L1 - IS-IS level-1, L2 - IS-IS level-2
      ia - IS-IS inter area, * - candidate default, U - per-user static route
      o - ODR, P - periodic downloaded static route
      Gateway of last resort is not set
B  192.168.123.0/24 [20/0] via 172.29.44.1, 7w0d
  51.0.0.0/8 is variably subnetted, 145 subnets, 4 masks
B  51.46.28.0/24 [20/0] via 172.29.44.1, 7w0d
B  51.39.76.91/32 [20/0] via 172.29.44.1, 6w6d
B  51.64.44.91/32 [20/0] via 172.29.44.1, 5w2d
B  51.46.24.0/24 [20/0] via 172.29.44.1, 7w0d
B  51.39.72.91/32 [20/0] via 172.29.44.1, 6w6d
B  51.46.20.0/24 [20/0] via 172.29.44.1, 7w0d
B  51.45.20.0/24 [20/0] via 172.29.44.1, 7w0d
```

B	51.46.16.0/24 [20/0] via 172.29.44.1, 7w0d
B	51.35.0.0/16 [20/0] via 172.29.44.1, 7w0d
B	51.46.12.0/24 [20/0] via 172.29.44.1, 7w0d
B	51.34.0.0/17 [20/0] via 172.29.44.1, 7w0d
B	51.45.12.0/24 [20/0] via 172.29.44.1, 7w0d
B	51.33.0.0/17 [20/0] via 172.29.44.1, 7w0d
B	51.32.0.0/17 [20/0] via 172.29.44.1, 7w0d

--More—

3.1.8.4 Melihat VLAN

BRI-DRC-CAT45-A#show vlan								
	VLAN Name		Status	Ports				
1	default		active	Gi1/2, Gi2/3, Gi2/4, Gi2/5 Gi2/6, Gi2/7, Gi2/8, Gi2/9 Gi2/10, Gi2/11, Gi2/12, Gi2/13 Gi2/14, Gi2/15, Gi2/16, Gi2/18 Gi2/19, Gi2/20, Gi2/21, Gi2/22 Gi2/23, Gi2/24, Gi2/25, Gi2/26 Gi2/27, Gi2/28, Gi2/29, Gi2/30 Gi2/31, Gi2/32, Gi2/33, Gi2/34 Gi2/35, Gi2/36, Gi2/37, Gi2/38 Gi2/39, Gi2/40, Gi2/41, Gi2/42				
5	VLAN0005		active					
10	VLAN0010		active					
20	VLAN0020		active					
30	VLAN0030		active					
40	VLAN0040		active					
50	VLAN0050		active					
60	VLAN0060		active					
70	VLAN0070		active					
1002	fddi-default		act/unsup					
1003	token-ring-default		act/unsup					
1004	fdtnet-default		act/unsup					
1005	trnet-default		act/unsup					
	VLAN Type	SAID	MTU	Parent Ring	No Bridge	No Stp	BrdgMode	
	Trans1	Trans2						
1	enet	100001	1500	-	-	-	-	0 0
5	enet	100005	1500	-	-	-	-	0 0
10	enet	100010	1500	-	-	-	-	0 0
20	enet	100020	1500	-	-	-	-	0 0
30	enet	100030	1500	-	-	-	-	0 0
40	enet	100040	1500	-	-	-	-	0 0
50	enet	100050	1500	-	-	-	-	0 0
60	enet	100060	1500	-	-	-	-	0 0
70	enet	100070	1500	-	-	-	-	0 0

1002 fddi 101002 1500 - - - - - 0 0
1003 tr 101003 1500 - - - - - 0 0
1004 fdnet 101004 1500 - - - ieee - 0 0
1005 trnet 101005 1500 - - - ibm - 0 0
Remote SPAN VLANs

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

BRI-DRC-CAT45-A#

3.1.8.5 Melihat ARP

BRI-DRC-CAT45-A#show ip arp					
Protocol	Address	Age (min)	Hardware Addr	Type	Interface
Internet	172.30.131.1	-	0026.cb32.fe3f	ARPA	Vlan20
Internet	172.30.130.1	-	0026.cb32.fe3f	ARPA	Vlan10
Internet	172.30.129.2	161	0018.18e2.b841	ARPA	Vlan5
Internet	172.30.129.1	178	0000.0c07.ac37	ARPA	Vlan5
Internet	172.30.131.2	75	0024.1400.2641	ARPA	Vlan20
Internet	172.30.135.1	-	0026.cb32.fe3f	ARPA	Vlan60
Internet	172.30.133.2	95	ecc8.8227.83f2	ARPA	Vlan40
Internet	172.30.134.1	-	0026.cb32.fe3f	ARPA	Vlan50
Internet	172.30.133.1	-	0026.cb32.fe3f	ARPA	Vlan40
Internet	172.30.134.2	101	0023.ac98.25c1	ARPA	Vlan50
Internet	172.30.135.2	63	0027.0de1.4ce1	ARPA	Vlan60
Internet	172.30.136.2	79	0025.454d.63f1	ARPA	Vlan70
Internet	172.30.136.1	-	0026.cb32.fe3f	ARPA	Vlan70
Internet	115.255.0.200	12	0016.353c.8366	ARPA	
GigabitEthernet2/1					
Internet	115.255.0.201	27	00e0.8602.2271	ARPA	GigabitEthernet2/

3.1.8.6 Melihat Suhu Perangkat & Status PSU

BRI-DRC-CAT45-A#show environment					
no alarm					
Chassis Temperature = 35 degrees Celsius					
Chassis Over Temperature Threshold = 75 degrees Celsius					
Chassis Critical Temperature Threshold = 95 degrees Celsius					
Power Fan Inline					
Supply	Model No	Type	Status	Sensor	Status
<hr/>					
PS1	PWR-C45-1400AC	AC 1400W	good	good	n.a.
PS2	PWR-C45-1400AC	AC 1400W	good	good	n.a.



DIS/PAN-04-01-00 : 13:00:00

Power supplies needed by system : 1
Power supplies currently available : 2
Chassis Type : WS-C4506-E
Power consumed by backplane : 0 Watts
Switch Bandwidth Utilization : 0%
Supervisor Led Color : Green

Module 1 Status Led Color : Green
Module 2 Status Led Color : Green

Fantray : Good
Power consumed by Fantray : 120 Watts

3.1.8.7 Melihat Log Messages

```
BRI-DRC-CAT45-A# show log
Syslog logging: enabled (0 messages dropped, 1 messages rate-limited, 0
flushes, 0 overruns, xml disabled, filtering disabled)

No Active Message Discriminator.
No Inactive Message Discriminator.

Console logging: disabled
Monitor logging: level debugging, 0 messages logged, xml disabled,
filtering disabled
Buffer logging: level debugging, 1395 messages logged, xml disabled,
filtering disabled
Exception Logging: size (8192 bytes)
Count and timestamp logging messages: disabled
Persistent logging: disabled

No active filter modules.
Trap logging: level informational, 3251 message lines logged
Log Buffer (4096 bytes):
    s 1 area dummy area: LSA origination prevented by LSA with same
    LSID but a different mask
Existing Type 5 LSA: LSID 172.30.164.0/24
    New Destination: 172.30.164.0/32
Sep 16 06:24:23.861: %OSPF-4-CONFLICTING_LSAID: Process 1 area
dummy area: LSA origination prevented by LSA with same LSID but a
different mask Existing Type 5 LSA: LSID 10.10.10.7/29
```

New Destination: 10.10.10.7/32
Sep 16 06:25:24.487: %OSPF-4-CONFLICTING_LSAID: Process 1 area dummy area: LSA origination prevented by LSA with same LSID but a different mask Existing Type 5 LSA: LSID 172.30.164.0/24 New Destination: 172.30.164.0/32
Sep 17 04:58:56.176: %OSPF-4-CONFLICTING_LSAID: Process 1 area dummy area: LSA origination prevented by LSA with same LSID but a different mask Existing Type 5 LSA: LSID 10.10.10.7/29
New Destination: 10.10.10.7/32

3.1.8.8 Melihat Versi Perangkat

```
BRI-DRC-CAT45-A#show version

Cisco IOS Software, Catalyst 4500 L3 Switch Software (cat4500-
ENTSERVICESK9-M), Version 12.2(50)SG2, RELEASE SOFTWARE (fc2)
Technical Support: http://www.cisco.com/techsupport
Copyright (c) 1986-2009 by Cisco Systems, Inc.
Compiled Mon 27-Apr-09 15:09 by prod_rel_team
Image text-base: 0x10000000, data-base: 0x11F9E9CC

ROM: 12.2(31r)SGA2
Dagobah Revision 226, Swamp Revision 32
BRI-DRC-CAT45-A uptime is 1 year, 15 weeks, 4 days, 21 minutes
System returned to ROM by power-on
System restarted at 16:11:05 WIB Wed Jun 8 2011
System image file is "bootflash:cat4500-entservicesk9-mz.122-50.SG2.bin"
```

3.2 Membuat Daily Report

Laporan Harian dibuat setiap hari dengan format ekstensi doc dan dikirim melalui email ke tsi_odr@bri.co.id ; techspv@ipnetsolusindo.com 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:\Data Terupdate WCS\#OPERASIONAL\Tahun\Bulan\Tanggal (exp: D:\Data Terupdate WCS\#OPERASIONAL\2012\05_Mei\01\Daily Report.doc)• Save As dengan filename 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 131.100.55.58/cacti , isi login dan password. 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 131.100.55.58/cacti kemudian klik Graph\DRC\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 131.100.55.58/cacti
4	Capture Juniper EXCORE82 DRC A - Master CPU Usage	<ul style="list-style-type: none">• Buka Web dengan menggunakan Mozilla atau IE kemudian isi bar address dengan 131.100.55.58/cacti klik Graph\DRC\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• Copy (CTRL+C)

- | | |
|--|--|
| | <ul style="list-style-type: none">• Kembali ke Daily Report.doc• Select 'Juniper EXCORE-DRC CPU UTILIZATION' pada Daily Report.doc• Paste (CTRL+V)• Kembali ke halaman pertama window 131.100.55.58/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 131.100.55.58/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 131.100.55.58/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 131.100.55.58/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 131.100.55.58/cacti |
|--|--|

Capture Juniper EXCORE82 DRC B - Backup CPU Usage

- | | |
|--|---|
| | <ul style="list-style-type: none">• Buka Web dengan menggunakan Mozilla atau IE kemudian isi bar address dengan 131.100.55.58/cacti klik Graph\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 |
|--|---|

		<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 131.100.55.58/cacti
5	Capture Cisco Catalyst 4503-DRC CPU UTILIZATION	<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 131.100.55.58/cacti klik Graph\DRCA\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) • Kembali ke halaman pertama window 131.100.55.58/cacti <p>Capture Cisco Catalyst 4503-DRC B CPU UTILIZATION</p> <ul style="list-style-type: none"> • Buka Web dengan menggunakan Mozilla atau IE kemudian isi bar address dengan 131.100.55.58/cacti klik Graph\DRCA\Router DRC , klik CAT4503B DRC • klik Gambar Traffic CAT4503B DRC - CPU Usage • klik Gambar Traffic CAT4503B 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) • Kembali ke halaman pertama window 131.100.55.58/cacti
6	Capture BCN-DRC Utilization	<p>Capture BCN-DRC Utilization (E34-M10)</p> <ul style="list-style-type: none"> • Buka Web dengan menggunakan Mozilla atau IE kemudian isi bar address dengan 131.100.55.58/cacti klik Graph\DRCA\Router DRC, klik BCN DRC • klik Gambar Traffic BCN DRC - CPU Usage • klik Gambar Traffic BCN DRC - Traffic - 60.1.2.161 (E34-M10) • Copy (CTRL+C)

- | | |
|--|--|
| | <ul style="list-style-type: none">• Kembali ke Daily Report.doc• Select 'BCN DRC - Traffic - 60.1.2.161 (E34-M10)' pada daily report.doc• Paste (CTRL+V)• Kembali ke halaman pertama window 131.100.55.58/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 131.100.55.58/cacti klik Graph\Router DRC, klik BCN DRC• Buka Web dengan menggunakan Mozilla atau IE kemudian isi bar address dengan 131.100.55.58/cacti klik Router DRC , klik BCN DRC• 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 131.100.55.58/cacti |
| | Capture BCN-DRC Utilization (E31-MGT_M10) <ul style="list-style-type: none">• Buka Web dengan menggunakan Mozilla atau IE kemudian isi bar address dengan 131.100.55.58/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 131.100.55.58/cacti |
| | Capture BCN-DRC Utilization (E32-Management) <ul style="list-style-type: none">• Buka Web dengan menggunakan Mozilla atau IE kemudian isi bar address dengan 131.100.55.58/cacti klik Graph\Router DRC, klik BCN DRC• klik Gambar Traffic BCN DRC - CPU Usage |

		<ul style="list-style-type: none">• klik Gambar Traffic BCN DRC - Traffic - 115.255.0.1 (E32-Management)<ul style="list-style-type: none">▪ 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 131.100.55.58/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 131.100.55.58/cacti klik Graph\DR\Router DRC, klik EX32-MIMIX-DRC• klik Gambar Traffic EX32-MIMIX-DRC - CPU Usage• klik Gambar Traffic EX32-MIMIX-DRC - CPU Usage (daily-1minute Average)• Copy (CTRL+C)• Kembali ke Daily Report.doc• Select 'EX32-MIMIX-DRC - CPU Usage' pada Daily Report.doc• Paste (CTRL+V)• Kembali ke halaman pertama window 131.100.55.58/cacti
		Capture Juniper EX 3200 L2VPN DRC CPU UTILIZATION
7	Capture Juniper EX 3200 DRC Traffic	<ul style="list-style-type: none">• Buka Web dengan menggunakan Mozilla atau IE kemudian isi bar address dengan 131.100.55.58/cacti klik Graph\DR\Router DRC, klik EX32-L2VPN-DRC• klik Gambar Traffic EX32-L2VPN-DRC - CPU Usage• klik Gambar Traffic EX32-L2VPN-DRC - CPU Usage (daily-1minute Average)• Copy (CTRL+C)• Kembali ke Daily Report.doc• Select 'EX22-L2VPN-DRC - CPU Usage' pada Daily Report.doc• Paste (CTRL+V)• Kembali ke halaman pertama window 131.100.55.58/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 131.100.55.58/cacti klik Graph\DR\Router DRC, klik EX32-MIMIX-DRC• klik Gambar Traffic EX32-MIMIX-DRC - Traffic - to MIMIX_60.0.8.5

- Copy (CTRL+C)
- Kembali ke Daily Report.doc
- Select '1. To MIMIX 60.0.8.5 P/34 pada Daily Report.doc
- Paste (CTRL+V)
- Save (CTRL+S)
- Kembali ke halaman pertama window 131.100.55.58/cacti

Capture LAN 1 PCI 1 WAAS DRC05 60.0.4.6 P/12

- Buka Web dengan menggunakan Mozilla atau IE kemudian isi *bar address* dengan 131.100.55.58/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 pada Daily Report.doc
- Paste (CTRL+V)
- Save (CTRL+S)
- Kembali ke halaman pertama window 131.100.55.58/cacti

Capture WAN 1 PCI 1 WAAS DRC05 60.0.4.6 P/13

- Buka Web dengan menggunakan Mozilla atau IE kemudian isi *bar address* dengan 131.100.55.58/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 pada Daily Report.doc
- Paste (CTRL+V)
- Save (CTRL+S)
- Kembali ke halaman pertama window 131.100.55.58/cacti

Capture MIMIX 60.0.6.5

- Buka Web dengan menggunakan Mozilla atau IE kemudian isi *bar address* dengan 131.100.55.58/cacti klik Graph\Router DRC, klik EX32-MIMIX-DRC
- klik Gambar Traffic EX32-MIMIX-DRC - Traffic - to MIMIX 60.0.6.5 ge-0/0/6

- | | |
|--|--|
| | <ul style="list-style-type: none">• Copy (CTRL+C)• Kembali ke Daily Report.doc• Select '4. To MIMIX 60.0.6.5 P/6' pada Daily Report.doc• Paste (CTRL+V)• Save (CTRL+S)• Kembali ke halaman pertama window 131.100.55.58/cacti |
|--|--|

Capture LAN 1 PCI 1 WAAS DRC05 60.0.4.6 P/4

- | | |
|--|---|
| | <ul style="list-style-type: none">• Buka Web dengan menggunakan Mozilla atau IE kemudian isi <i>bar address</i> dengan 131.100.55.58/cacti klik Graph\Router DRC, klik EX32-MIMIX-DRC• klik Gambar Traffic EX32-MIMIX-DRC – Traffic – to_LAN0_WAAS_5• Copy (CTRL+C)• Kembali ke Daily Report.doc• Select '5. To LAN 0 PCI 1 WAAS DRC05'pada Daily Report.doc |
|--|---|

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| | <ul style="list-style-type: none">• Paste (CTRL+V)• Save (CTRL+S) |
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- | | |
|--|---|
| | <ul style="list-style-type: none">• Kembali ke halaman pertama window 131.100.55.58/cacti |
|--|---|

Capture WAN 1 PCI 1 WAAS DRC05 60.0.4.6 P/5

- | | |
|--|--|
| | <ul style="list-style-type: none">• Buka Web dengan menggunakan Mozilla atau IE kemudian isi <i>bar address</i> dengan 131.100.55.58/cacti klik Graph\Router DRC, klik EX32-MIMIX-DRC• klik Gambar Traffic EX32-MIMIX-DRC - Traffic - to_WAN0_WAAS_5• Copy (CTRL+C)• Kembali ke Daily Report.doc• Select '6. To WAN 0 PCI 1 WAAS DRC05 'pada Daily Report.doc |
|--|--|

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|--|--|
| | <ul style="list-style-type: none">• Paste (CTRL+V)• Save (CTRL+S) |
|--|--|

- | | |
|--|---|
| | <ul style="list-style-type: none">• Kembali ke halaman pertama window 131.100.55.58/cacti |
|--|---|

Capture NetApp

- | | |
|--|--|
| | <ul style="list-style-type: none">• Buka Web dengan menggunakan Mozilla atau IE kemudian isi <i>bar address</i> dengan 131.100.55.58/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) |
|--|--|

- | | |
|--|--|
| | <ul style="list-style-type: none">• Kembali ke Daily Report.doc• Select '7. To NetApp P/30 & P/28 pada Daily Report.doc• Paste (CTRL+V)• Kembali ke halaman pertama window 131.100.55.58/cacti• klik Gambar Traffic EX32-MIMIX-DRC - Traffic - to NetApp ge-0/0/28• Copy (CTRL+C)• Kembali ke Daily Report.doc• Select '7. To NetApp P/30 & P/28 pada Daily Report.doc• Paste (CTRL+V)• Save (CTRL+S)• Kembali ke halaman pertama window 131.100.55.58/cacti |
| | Capture NETAPP/ LAN 1 PCI 2 WAAS DRC04
60.0.8.7/P.18 |
| | <ul style="list-style-type: none">• Buka Web dengan menggunakan Mozilla atau IE kemudian isi <i>bar address</i> dengan 131.100.55.58/cacti klik Graph\DRC\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 '8. 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 131.100.55.58/cacti |
| | Capture NETAPP/ WAN 1 PCI 2 WAAS DRC04
60.0.8.7/P.19 |
| | <ul style="list-style-type: none">• Buka Web dengan menggunakan Mozilla atau IE kemudian isi <i>bar address</i> dengan 131.100.55.58/cacti klik Graph\DRC\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 '9. 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 131.100.55.58/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 131.100.55.58/cacti klik Graph\DR\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 '10. 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 131.100.55.58/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 131.100.55.58/cacti klik Graph\DR\Router DRC, klik EX32-MIMIX-DRC
- klik Gambar Traffic EX32-MIMIX-DRC - Traffic WebEbank - to WAN1 WAAS 4
- Copy (CTRL+C)
- Kembali ke Daily Report.doc
- Select '11. 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 131.100.55.58/cacti

Capture WAY4 & Mainframe

- Buka Web dengan menggunakan Mozilla atau IE kemudian isi *bar address* dengan 131.100.55.58/cacti klik Graph\DR\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 '12. To Way4 P/23' pada Daily Report.doc
- Paste (CTRL+V)
- Save (CTRL+S)
- Kembali ke halaman pertama window 131.100.55.58/cacti

		Capture WAY4/LAN 0 PCI 1 WAAS DRC 04 60.0.8.7/P.24
		<ul style="list-style-type: none">• Buka Web dengan menggunakan Mozilla atau IE kemudian isi <i>bar address</i> dengan 131.100.55.58/cacti klik Graph\DRC\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• Select '13. 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 131.100.55.58/cacti
		Capture WAY4/WAN 0 PCI 1 WAAS DRC 04 60.0.8.7/P.25
		<ul style="list-style-type: none">• Buka Web dengan menggunakan Mozilla atau IE kemudian isi <i>bar address</i> dengan 131.100.55.58/cacti klik Graph\DRC\Router DRC, klik EX32-MIMIX-DRC• klik Gambar Traffic EX32-MIMIX-DRC - Traffic WAN WAY4 - to WAN0 WAAS 4• Copy (CTRL+C)• Kembali ke Daily Report.doc• Select '14. 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 131.100.55.58/cacti
8	Capture M10 DRC Traffic	Capture M10i DRC To SUD Telkom - so-1/2/0
		<ul style="list-style-type: none">• Buka Web dengan menggunakan Mozilla atau IE kemudian isi <i>bar address</i> dengan 131.100.55.58/cacti klik Graph\DRC\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)• Kembali ke halaman pertama window 131.100.55.58/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 131.100.55.58/cacti klik Graph\DR\Router DRC, klik Juniper M10i DRC
	<ul style="list-style-type: none"> klik Gambar Juniper M10i DRC - Traffic STM-1 DRC to GTI Icon+ - so-1/2/1
	<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 '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 131.100.55.58/cacti

3.3 Mengisi Ceklis Harian BRI

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

LAPORAN KEGIATAN ODR BULAN AGUSTUS 2012	
Update Status : Tanggal 24 Sep 2012	
1	Total Realisasi Biaya 2012 : Rp 1,137,648,237
2	Total Realisasi Biaya (Khusus Bulan Agustus 2012 saja) : Rp 139,052,385
3	Total Pendapatan Guest House : Rp 46,500,726
4	Ratas Pencapaian SLA Current BRINETS (Agustus 2012) : 114.8%
5	Ratas Pencapaian Backup Before BRINETS (Agustus 2012) : 100%
6	Ratas Pencapaian Up Time Server (Agustus 2012) : 100%
7	Total Perangkat Server : 316 <ul style="list-style-type: none"> - Server Intel Blade : 201 - Server Intel Rackmounted : 99 - Server Intel f Blade : 0 - Server Intel ft Rackmounted : 4 - Server IBM pSeries : 3 - Server IBM xSeries : 1 - Server IBM zSeries : 0 - Server IBM xSeries : 3 - Server Lain-lain : 5
8	Total Server Aplikasi Operasional : 117



DIS/PAN-04-01-00 : 13:00:00

Your Login as : Nugraha|WCS - Mozilla Firefox

File Edit View History Bookmarks Tools Help

Your Login as : Nugraha|WCS

126.0.250 >Myportaldrc >Main.php >Module = BRI-CheckList |

Google

TSI CDR
Bank Rakyat Indonesia

Better using Google Chrome
chrome

IMAGE
Nugraha Pralama
WCS

HOME
BRI DRC
CHANGE PASSWORD
DATA HARDWARE
DATA SERVER DRC
LAPORAN BULANAN
RISALAH RAPAT
SCHEDULE
PHONE BOOK
TASK LIST
MA WCS
HOP MA WCS
LAPORAN BULANAN WCS

CHECK LIST HARIAN DRC

Edit Print

Tanggal Check List V.BETA

23 September 2012 (shift 3)
23 September 2012 (shift 2)
23 September 2012 (shift 1)
22 September 2012 (shift 3)
22 September 2012 (shift 2)
22 September 2012 (shift 1)
21 September 2012 (shift 3)
21 September 2012 (shift 2)

DAILY CHECKLIST (BETA) - Mozilla Firefox

File Edit View History Bookmarks Tools Help

DAILY CHECKLIST (BETA)

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

SHIFT 1

Tabanan : Thursday ,
MA-WCS bertugas: Robert dan

No. Kegiatan Harian Perform By Schedule Real Time Status Paraf PIC Paraf BRI

1 Pengcekan Status Jaringan Komunikasi STM1 5 MA-WCS 07:31:00 [07:31:00] Cek ✓ X

2 Pengcekan Status Jaringan Komunikasi STM1 6 MA-WCS 08:01:00 [08:01:00] Cek ✓ X

3 FTP Backup Configuration All Network Switching Device MA-WCS 09:00:00 [09:00:00] Cek ✓ X

4 Pengcekan Status Jaringan Komunikasi STM1 7 MA-WCS 10:01:00 [10:01:00] Cek ✓ X

5 capture All bandwidth WAN compression 2 MA-WCS 10:05:00 [10:05:00] Cek ✓ X

6 Pengcekan Status Jaringan Komunikasi STM1 8 MA-WCS 12:01:00 [12:01:00] Cek ✓ X

7 capture All bandwidth WAN compression 3 MA-WCS 13:05:00 [13:05:00] Cek ✓ X

8 Pengcekan Status Jaringan Komunikasi STM1 10 MA-WCS 14:01:00 [14:01:00] Cek ✓ X

9 Cek LED Indikator B55610 RTGS (Power: Base, Up *, Down *) 3 MA-WCS 14:46:00 [14:46:00] Cek ✓ X

10 Cek LED Indikator panel depan BCN (Power, Run, Alm, Diag || Back Panel (Led Fail in module 10100 Bassatx, VCC, 12V1, 12V2 in module SRML, PSU-1 & PSU-4) 3 MA-WCS 14:47:00 [14:47:00] Cek ✓ X

Page 1 2 3 4

Remarks



DIS/PAN-04-01-00 : 13:00:00

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 GTI-DRC Tanggal : 04 September 2013																					
MIMIX 60.0.8.5(GTI1)			MIMIX 60.0.6.5(GTI2)			NetApp			WebBank			Way4			M10i (STM1)						
WAAS DRC05 60.0.4.6			WAAS DRC05 60.0.4.6			WAAS DRC04 60.0.8.7			WAAS DRC04 60.0.8.7			WAAS DRC04 60.0.8.7			STM1 DC-DRC		STM1 GTI-DRC		TOTAL		
Time	Bandwidth (WB)	Mbps	Time	Bandwidth (WB)	Mbps	Time	Bandwidth (WB)	Mbps	Time	Bandwidth (WB)	Mbps	Time	Bandwidth (WB)	Mbps	Time	Bandwidth (WB)	Mbps	Bandwidth (WB)	Mbps		
06:00	1730	1.73	06:00	938.49	0.94	06:00	6080	6.08	06:00	2740	2.74	06:00	21960	21.96	06:00	142990	142.99	7050	7.05	150040	150.04
09:00	12590	12.59	09:00	5490	5.49	09:00	5850	5.85	09:00	5036	0.05	09:00	30900	30.90	09:00	32450	32.45	101200	101.20	133650	133.56
12:00	10050	10.05	12:00	4440	4.44	12:00	4100	4.10	12:00	5316	0.05	12:00	21820	21.82	12:00	21890	21.89	92210	92.21	114100	114.10
15:00	8620	8.62	15:00	4120	4.12	15:00	2630	2.63	15:00	102.81	0.10	15:00	19570	19.57	15:00	19310	19.31	89620	89.62	117930	117.93
18:00	2890	2.99	18:00	2440	2.44	18:00	3640	3.64	18:00	51.29	0.05	18:00	16200	16.20	18:00	17270	17.27	88050	88.05	105320	105.32
21:00	1440	1.44	21:00	570	5.72	21:00	2890	2.89	21:00	37.47	0.04	21:00	11280	11.28	21:00	11420	11.42	15950	15.95	23730	27.37
5:04	973.12	0.97	5:04	19310	19.31	05:04	10320	10.32	05:04	6450	6.45	05:04	26610	26.61	05:04	112740	112.74	20820	20.82	133560	133.56
MIMIX Current			Time			Total WAN			STM1						STM1						
			06:00			33.45			150.04												
			09:00			54.88			133.65												
			12:00			40.46			114.10												
			15:00			35.04			117.93												
			18:00			25.32			105.32												
			21:00			21.37			27.37												
			05:04			63.66			133.56												

MONITORING TRAFFIC JARINGAN KOMUNIKASI GTI-DRC Tanggal : 04 September 2013																										
MIMIX 60.0.8.5			MIMIX 60.0.5.5			NetApp			WebBank			Way4 & Mainframe			STM1											
VAAS DRC05 60.0.4.6			VAAS DRC05 60.0.4.6			VAAS DRC04 60.0.8.7			VAAS DRC04 60.0.8.7			VAAS DRC04 60.0.8.7			from Bagstac k 5530		LAN 0 PC11 Ex3200 Port 24 (Kbps)		LAN 0 PC11 Ex3200 Port 25 (Kbps)		M10i (STM1 DC-DRC-DC Sudirman)		M10i (STM1 DRC-GTI)		Total	
Time	Bandwidth			Bandwidth			Bandwidth			Bandwidth			Bandwidth			B/W(Kbps)										
	from AS400 Ex3200 Port 34 (Kbps)	LAN 1 PC11 Ex3200 Port 12 (Kbps)	WAN 1 PC11 Ex3200 Port 13 (Kbps)	from AS400 Ex3200 Port 06 (Kbps)	LAN 0 PC11 Ex3200 Port 04 (Kbps)	WAN 0 PC11 Ex3200 Port 05 (Kbps)	from SW HPI NetApp Ex3200 Port 30 & Port 28 (Kbps)	LAN 1 PC11 Ex3200 Port 18 (Kbps)	WAN 1 PC11 Ex3200 Port 19 (Kbps)	from LAN 1 PC11 Catalog 2960 port Ge-0/1 (Kbps)	WAN 1 PC11 Ex3200 Port 17 (Kbps)	from LAN 1 PC11 Catalog 2960 port Ge-0/1 (Kbps)	WAN 1 PC11 Ex3200 Port 17 (Kbps)	from Bagstac k 5530 V4F Port 17 (Kbps)	LAN 0 PC11 Ex3200 Port 24 (Kbps)	WAN 0 PC11 Ex3200 Port 25 (Kbps)	Com pres (x)	M10i (STM1 DC-DRC-DC Sudirman)	M10i (STM1 DRC-GTI)	Total						
0:00	9050	9080	1270	7.15	4340	4340	493.92	8.97	64780	64120	850	7.53	33.44	39.2	0.85	6700	39760	5780	6.88	15970	34900	50870				
01:00	324460	324780	23930	1.05	152290	152280	19440	7.83	3750	36780	3610	10.9	33.25	36.64	0.86	88950	16540	45390	2.53	53520	136680	162020				
02:00	361080	364670	36900	3.88	105780	105840	12440	8.51	77760	76360	12730	6.00	1980	4060	2.95	106170	12120	27030	4.48	92370	104850	197820				
03:00	384400	384100	38420	10.00	112390	112380	47650	2.37	5920	58610	7400	7.32	130310	97890	1.33	19580	143660	28190	5.07	131920	112150	244070				
04:00	339620	340310	67130	5.51	96670	96580	19180	5.04	65970	68890	11440	6.02	85970	8650	8.91	134730	146380	31560	4.65	53540	82150	135690				
05:00	6490	6430	97312	6.61	181200	181230	19310	9.39	67410	66700	10320	6.46	57490	6450	8.91	97370	104650	26810	5.23	112740	20820	133560				
06:00	13110	13000	1730	7.51	14950	14960	538.49	15.62	43630	44710	6080	7.26	23670	2744	8.64	74770	93910	21960	4.28	142990	7050	150040				
07:00	30180	3180	3810	8.18	32360	32350	2030	16.38	63350	62680	5900	10.62	35.41	4105	0.86	43810	48600	1750	2.80	20940	16090	37030				
08:00	77870	77780	8850	8.80	72800	72800	4660	15.62	54640	53880	6110	8.79	40.38	46.23	0.87	63680	68470	24320	2.82	29020	97370	126390				
09:00	106510	106820	12590	3.41	89230	89230	5490	16.5	50200	49360	5850	3.44	44.08	50.36	0.88	76200	82640	30900	2.67	32450	101200	133650				
10:00	104100	104620	12850	8.14	88820	88820	5500	16.15	42450	42110	4310	3.77	46.53	52.31	0.89	87570	72850	27630	2.63	30040	100850	130690				
11:00	103860	104500	12890	8.11	90230	90230	5890	15.33	52320	5770	5620	9.21	5349	5931	0.89	86160	73940	28780	2.57	29870	102040	131910				
12:00	82230	82130	10050	8.17	71070	71070	4440	16.01	37650	36830	4100	8.38	47.95	53.16	0.90	45680	71740	21820	3.23	21890	92210	114100				
13:00	833940	84640	10310	8.33	79080	80040	4870	16.44	32430	33880	3160	10.72	46.63	53.35	0.87	44670	49320	9580	2.52	20060	102090	122160				
14:00	97210	97190	11450	8.49	87810	87810	5530	15.84	45030	44480	5090	8.74	49.01	55.34	0.89	45710	51300	20640	2.48	24670	103150	127820				
15:00	75470	77050	8620	8.84	65600	65630	4120	15.33	29300	29530	6120	7.5	102.81	0.73	42840	48850	18570	2.49	19310	98620	117930					
16:00	52140	52370	5700	9.18	4990	4970	3210	15.49	38460	37990	3850	3.87	65.55	73.76	0.89	39060	45220	18230	2.48	39430	58160	116770				
17:00	38310	38470	4240	8.97	45760	45820	3050	15.06	40260	39780	4290	3.27	42.82	48.33	0.89	43430	48510	17370	2.46	23730	93040	11770				
18:00	26680	26680	2990	8.90	35470	35470	2440	14.54	37940	36590	3640	10.05	44.95	51.29	0.88	36570	40820	16200	2.52	17270	88050	105320				
19:00	35520	35300	9390	3.77	42850	42730	4980	8.58	34370	35000	4800	7.23	34.85	40.34	0.86	42290	47220	19670	2.40	20060	97010	117070				
20:00	31140	31060	9220	3.37	35610	35900	4530	8.72	36880	364																

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:\Data Terupdate WCS#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 disave 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 131.100.55.58/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 131.100.55.58/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 131.100.55.58/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 60.0.6.5		<ul style="list-style-type: none"> Buka Cacti 131.100.55.58/cacti pada Website Mozilla atau IE, klik

			<p>Graph\Reporting\DRC\Replikasi DRC, untuk melihat traffic Mimix (IP 60.0.6.5) pada jam sesuai dengan yang akan dimasukan</p> <ul style="list-style-type: none"> • Lihat <u>EX32-MIMIX-DRC - Traffic - to_MIMIX_60.0.6.5 ge-0/0/6</u> untuk traffic 'Current Outbound' • Catat Traffic 'Current Outbound' untuk kolom from AS400 MIMIX Ex3200 Port 6 sesuai dengan jamnya • Save
6	Traffic LAN 0 PCI 1 WAAS- DRC05 60.0.4.6		<ul style="list-style-type: none"> • Buka Cacti 131.100.55.58/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 <u>EX32-MIMIX-DRC - Traffic - to_LAN0_WAAS_5</u> untuk traffic 'Current Inbound' • Catat Traffic 'Current Inbound' untuk kolom LAN 0 PCI1 EX3200 Port 04 pada kolom yang sesuai dengan jamnya • Save
7	Traffic WAN 0 PCI 1 WAAS-5 60.0.4.6		<ul style="list-style-type: none"> • Buka Cacti 131.100.55.58/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 <u>EX32-MIMIX-DRC - Traffic - to_WAN0_WAAS_5</u> untuk traffic 'Current Outbound ' • Catat Trafik 'Current Outbound' untuk kolom WAN 0 PCI 1 EX3200 Port 05 pada kolom yang sesuai dengan jamnya • Save
8	Traffic Mimix 60.0.1.4	Ketika replikasi MIMIX yang digunakan Sudirman - DRC	<ul style="list-style-type: none"> • Buka Cacti 131.100.55.58/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 <u>EX32-MIMIX-DRC - Traffic - to_MIMIX_60.0.1.4 ge-0/0/2</u> untuk traffic 'Current Outbound' • Catat Traffic 'Current Outbound' untuk kolom 'from AS400 MIMIX Ex3200 Port 02' sesuai dengan jamnya • Save
9	Traffic LAN 1 PCI 1 WAAS DRC 01	Ketika replikasi MIMIX yang digunakan Sudirman - DRC	<ul style="list-style-type: none"> • Buka Cacti 131.100.55.58/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 <u>EX32-MIMIX-DRC - Traffic - to_LAN1_WAAS_1 ge-0/0/0</u> untuk traffic 'Current Inbound' • Catat Traffic 'Current Outbound' untuk kolom 'LAN 1 PCI 1 Ex3200 Port 00' sesuai dengan jamnya • Save
10	Traffic WAN 1	Ketika replikasi	<ul style="list-style-type: none"> • Buka Cacti 131.100.55.58/cacti pada Website

	PCI 1 WAAS DRC 01	MIMIX yang digunakan Sudirman - DRC	<p>Mozilla atau IE ,klik Graph\Reporting\DRC\Replikasi DRC, untuk melihat traffic WAN CISCO WAAS 1 Disk (IP 60.0.4.7)</p> <ul style="list-style-type: none"> • Lihat EX32-MIMIX-DRC - Traffic - to_WAN1_WAAS_1 ge-0/0/1 untuk traffic 'Current Outbound' • Catat Traffic 'Current Outbound' untuk kolom 'WAN 1 PCI1 Ex3200 Port 01' sesuai dengan jamnya • Save
11	Traffic NetApp EX 3200 Port 30 & Port 28		<ul style="list-style-type: none"> • Buka Cacti 131.100.55.58/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' dan 'EX32-MIMIX-DRC - Traffic - to_NetApp_ge-0/0/28' untuk traffic 'Current Outbound' jumlahkan keduanya • Catat Traffic 'Current Outbound' untuk kolom NetApp EX3200 port 30 & 28 pada kolom yang sesuai dengan jamnya • Save
12	Traffic NetApp LAN 1 PCI 2 EX3200 Port 18		<ul style="list-style-type: none"> • Buka Cacti 131.100.55.58/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 • Save
13	Traffic NetApp WAN 1 PCI 2 EX3200 Port 19		<ul style="list-style-type: none"> • Buka Cacti 131.100.55.58/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 • Save
14	Traffic WebEbank Catalyst 2960 port Gi0/1		<ul style="list-style-type: none"> • Buka Cacti 131.100.55.58/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

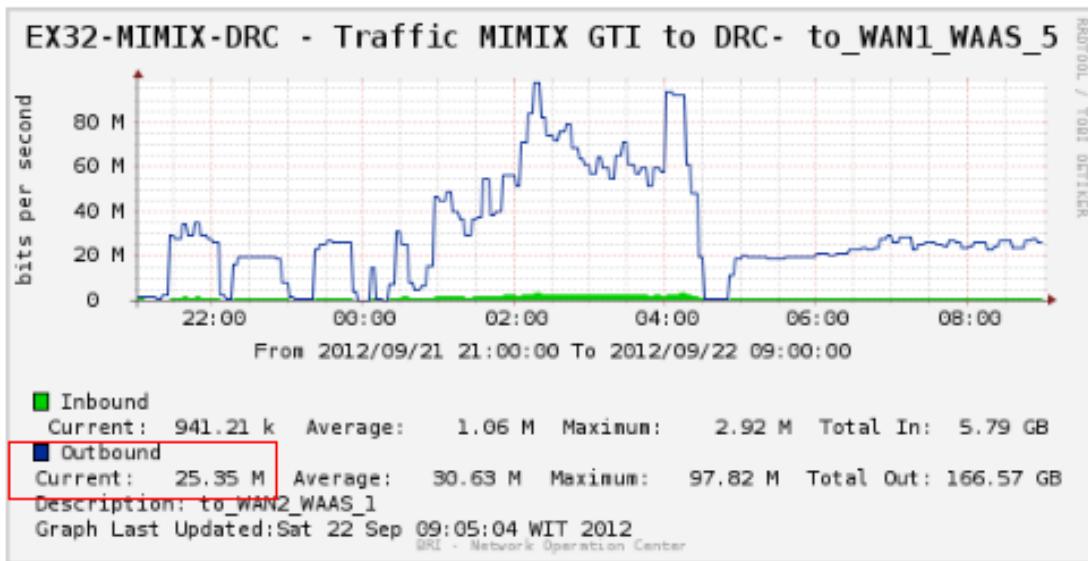
			<ul style="list-style-type: none"> • Save
15	Traffic WebEbank EX 3200 port 17		<ul style="list-style-type: none"> • Buka Cacti 131.100.55.58/cacti pada Website Mozilla atau IE , klik Graph\Reporting\DRC\Replikasi DRC, untuk melihat traffic Web Ebank pada jam sesuai dengan yang akan dimasukan • Lihat 'EX32-MIMIX-DRC - Traffic WebEbank - to_WAN1_WAAS_4' untuk traffic 'Current Outbound'
			<ul style="list-style-type: none"> • 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
16	Traffic Way4 EX 3200 Port 23		<ul style="list-style-type: none"> • Buka Cacti 131.100.55.58/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'
			<ul style="list-style-type: none"> • 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
17	Traffic Way4 EX 3200 port 24		<ul style="list-style-type: none"> • Buka Cacti 131.100.55.58/cacti pada Website Mozilla atau IE, klik Graph\Reporting\DRC\Replikasi DRC untuk melihat traffic <i>Way4</i> pada jam sesuai dengan yang akan dimasukan • 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
18	Traffic Way4 EX 3200 port 25		<ul style="list-style-type: none"> • Buka Cacti 131.100.55.58/cacti pada Website Mozilla atau IE, klik Graph\Reporting\DRC\Replikasi DRC untuk melihat traffic <i>Way4</i> 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
19	Traffic STM1 DRC to SUD		<ul style="list-style-type: none"> • Buka Cacti 131.100.55.58/cacti pada Website Mozilla atau IE , klik Graph\Reporting\DRC\Replikasi untuk melihat traffic <i>STM 1</i> pada jam sesuai dengan yang akan dimasukan

		<ul style="list-style-type: none"> 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 Save
20	Traffic STM1 DRC to GTI	<ul style="list-style-type: none"> Buka Cacti 131.100.55.58/cacti pada Website Mozilla atau IE , klik Graph\Reporting\DRD\Replikasi untuk melihat traffic <i>STM 1</i> pada jam sesuai dengan yang akan dimasukan Lihat 'Juniper M10i DRC - Traffic STM-1 DRC to GTI Icont+ - 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 Save

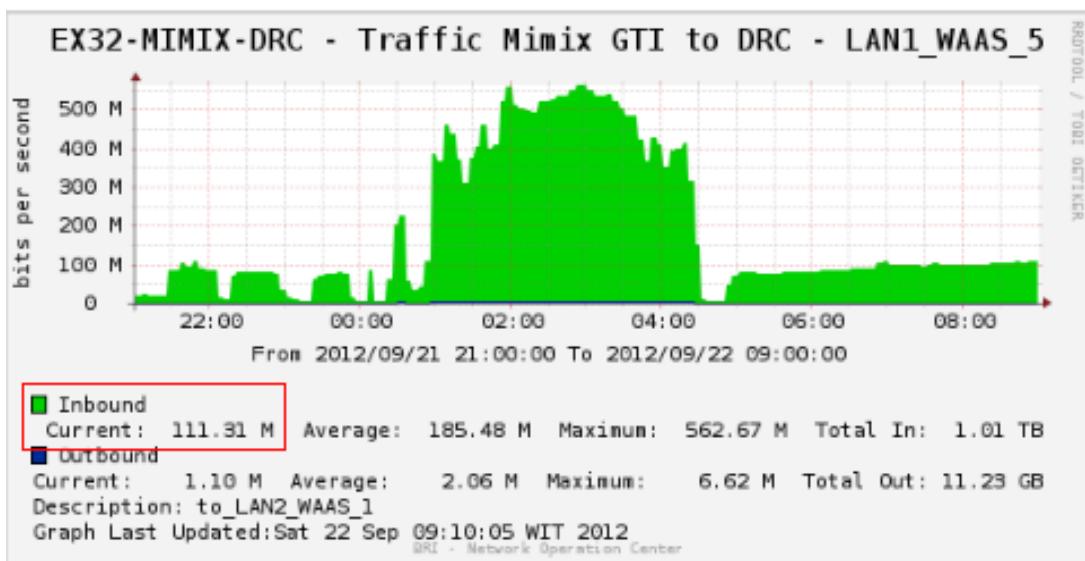
3.5 *Kompresi Replikasi*

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

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



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



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

Contoh:

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

Maka perbandingannya adalah :

111.31 M : 25.35 M = 4.39x

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

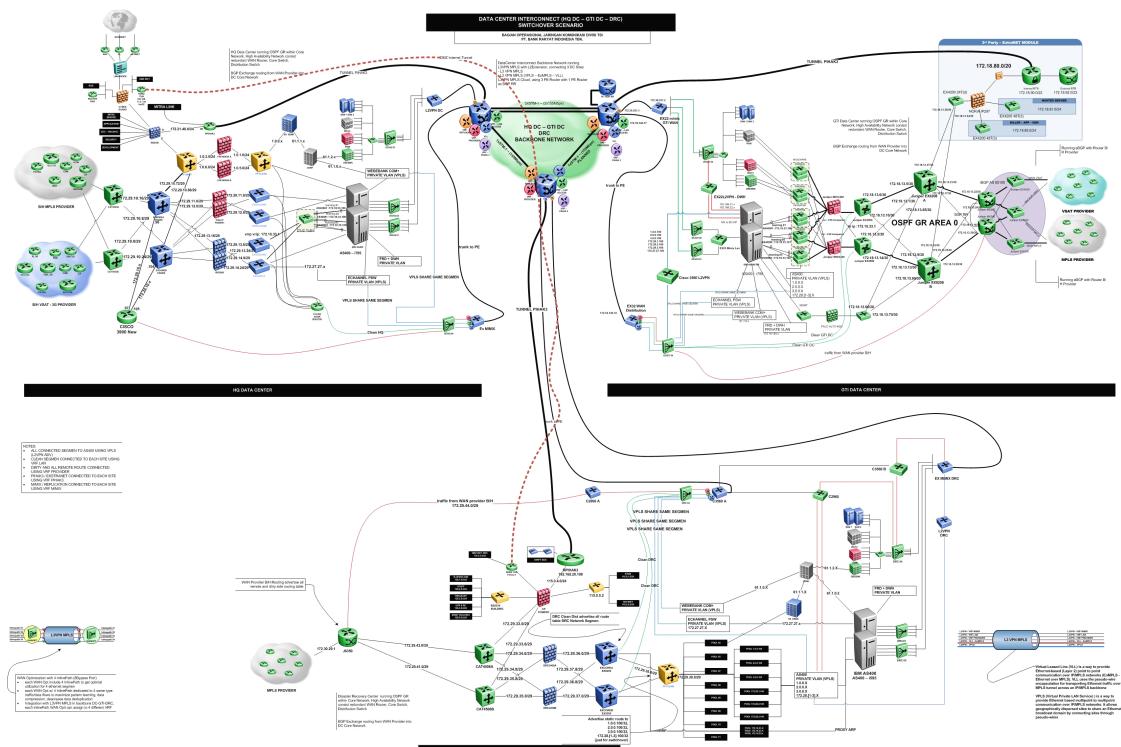
3.6 *Disaster Recovery*

Proses *disaster recovery* PT. BRI diimplementasikan pada AS/400-DC atau AS/400-GTI. Proses disaster recovery menggunakan teknologi L2VPN (Layer 2 Virtual Private Networks). Langkah prosesnya yaitu

1. 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.
2. Kemudian disable 8 port ditambah 2 port DWH Switch L2VPN DC atau GTI ke interface AS/400 DC atau GTI.

3. 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.
4. Kemudian Eksekusi script migrasi switch-over L2VPN di M10i DC atau GTI dan eksekusi script migrasi switch-over L2VPN di M10i DRC.

Berikut adalah gambar jika terjadi proses Disaster.



3.7 Preventive Maintenance

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

Check List Perangkat Core Switch

Cisco Catalyst 4506 - B

I. Project Information

Project Information

Project Name	Monitoring Perangkat BRI-DRC		
Customer	PT. Bank Rakyat Indonesia		
Date	08/27/2012		
Address	Tabanan, Bali		
Phone	0361 - 819737	HP	08155791338
Contact Person	Dhany Puswantoro	HP	08155791338

II. Kondisi HW Sebelumnya

Device Information

Type of Devices	Catalyst 4506 E	Location	Rack 27, U#1
Mark	Cisco	Type	Core Switch
Serial Number	FOX1329GSA3	IP Management	172.19.143.2/24
Hostname	BRI-DRC-CAT45-B	Temperature	25 degrees C
IOS Version RE 0	Cisco IOS Software Version 12.2(50)SG2	Remark	
Power Supply	<input checked="" type="checkbox"/> 110VAC <input checked="" type="checkbox"/> Single	<input checked="" type="checkbox"/> 220VAC <input checked="" type="checkbox"/> Redundant	

III. Hasil Check Perangkat

A. Hardware Check

Type of Devices	Catalyst 4506 E	Location	Rack 27, U#1
Mark	Cisco	Type	Core Switch
Serial Number	FOX1329GSA3	IP Management	172.19.143.2/24
Hostname	BRI-DRC-CAT45-B	Temperature	27 degrees C
Firmware Version RE 0	Cisco IOS Software Version 12.2(50)SG2	Remark	
Firmware Version RE 1	Cisco IOS Software Version 12.2(50)SG2		
Power Supply	<input checked="" type="checkbox"/> 110VAC <input checked="" type="checkbox"/> Single	<input checked="" type="checkbox"/> 220VAC <input checked="" type="checkbox"/> Redundant	Cond. PSU+Fan: <input checked="" type="checkbox"/> OK Pwr Supply Mati: <input type="checkbox"/> Pwr Sply Ok, Fan Problem: <input type="checkbox"/>

B. Port & VLAN Configuration Status

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



DIS/PAN-04-01-00 : 13:00:00

No	Port Number	VLAN		IP Address	Status	Destination
		ID	Name			
24	Gi2/24	1	default		Down	
25	Gi2/25	1	default		Down	
26	Gi2/26	1	default		Down	
27	Gi2/27	1	default		Down	
28	Gi2/28	1	default		Down	
29	Gi2/29	1	default		Down	
30	Gi2/30	1	default		Down	
31	Gi2/31	1	default		Down	
32	Gi2/32	1	default		Down	
33	Gi2/33	1	default		Down	
34	Gi2/34	1	default		Down	
35	Gi2/35	1	default		Down	
36	Gi2/36	1	default		Down	
37	Gi2/37	1	default		Down	
38	Gi2/38	1	default		Down	
39	Gi2/39	1	default		Down	
40	Gi2/40	1	default		Down	
41	Gi2/41	1	default		Down	
42	Gi2/42	1	default		Down	
43	Gi2/43	Trunk		Up	to Catalyst 3560 Provider	
44	Gi2/44			172.29.44.4/23	Up	Connection_To_C2960_A_Port
45	Gi2/45			172.29.41.2/23	Up	J6350 port 0/1
46	Gi2/46			172.29.33.9/23	Up	CheckPoint port 8
47	Gi2/47			172.29.35.1/23	Up	SRX B port 1
48	Gi2/48			172.29.35.9/23	Up	SRX A port 1
49						
50	FastEthernet1			172.19.149.2/24	Up	D-Link Management Port 6

C. Tagging

Vlan Tagging			
No	Tag Name	Port Tag Member	Vlan Members
1	***to Catalyst 3560 Provider***	GigabitEthernet2/43	vlan 5, 10, 20, 30, 40, 50, 60, 70
2			

D. Routing Table

No	Destination	Next-Hop
1		
2		
3		
4		
5		

Dilampirkan

E. NTP Configuration

No	NTP Server	Time Zone
1	131.100.55.160	GMT+7
2		

F. Syslog Configuration

No	Syslog Server	Description
1		
2		No Syslog

G. SNMP Configuration

No	SNMP Server	Community Name	Permission
1	131.100.55.153/32	Community Public	Authorization read-only
2	131.100.55.57/32	Community Public	Authorization read-only
2	131.100.55.58/32	Community Public	Authorization read-only

3.8 Membuat Monthly Report

Berikut adalah langkah-langkah untuk membuat Monthly Report.

No.	Job	Description of Action
1	Template Monthly Report	<ul style="list-style-type: none">• Buka Template Monthly Report di D:\MASTER\TEMPLATE\Monthly Report atau buka Monthly Report bulan sebelumnya di E:\#DOKUMENTASI\LAPORAN WCS DRC BULANAN FOR BRI\Tahun\Bulan (exp: E:\#DOKUMENTASI\LAPORAN WCS DRC BULANAN FOR BRI\2013\08. Agustus\WCS Agustus 2013.doc)• Save As dengan filename Monthly Reoprt.doc dengan bulan yang sesuai di folder bulan berjalan.
2	Mengisi KPI Performance Report	<ul style="list-style-type: none">• Persentasi kehadiran sesuai SLA• Persentasi kehadiran berdasarkan absen = diisi sesuai file “Perhitungan absensi” (E:\#DOKUMENTASI\Absen)• Uptime - Plan Downtime dan Uptime - Unplan Downtime = diisi apabila ada downtime, baik plan (direncanakan) ataupun unplan (tidak direncanakan) pada bulan tersebut, perhitungannya ada di file laporan bulanan• Jumlah change request = diisi berdasarkan jumlah change request yang ada di bulan tersebut (E:\#DOKUMENTASI\Change request)• Jumlah perubahan HOP = diisi berdasarkan change request yang isinya mengacu untuk perubahan HOP, contohnya change request update topologi• CPU Utilisasi perangkat = diisi berdasarkan file “UTILISASI Perangkat” (E:\#DOKUMENTASI\LAPORAN TAHUNAN WCS\Tahun)• Kompresi WAAS = diisi berdasarkan file “Kompresi WAAS” (E:\#DOKUMENTASI\Kompresi WAAS)• Jumlah permasalahan = diisi berdasarkan jumlah email notification di bulan tersebut berdasarkan file “Kumpulan per bulan format email notification trouble beserta no.REG” (E:\#DOKUMENTASI\FORMAT EMAIL NOTIFICATION)• Jumlah kesalahan personil = diisi berdasarkan ada personil yg bermasalah contohnya mendapatkan SP dari pihak BRI pada bulan tersebut• Jumlah turn over personil = diisi berdasarkan jumlah rolling personil, atau penggantian personil pada bulan tersebut• Jumlah pemasangan perangkat = diisi berdasarkan jumlah pemasangan perangkat baru di drc pada bulan tersebut• Jumlah pelepasan perangkat = diisi berdasarkan jumlah pelepasan perangkat di drc pada bulan tersebut
3	Capture Traffic	Capture Traffic Utilization M10i DC Sudirman (STM1)

	Utilization M10i	DC-DRC) <ul style="list-style-type: none">• Buka Web dengan menggunakan Mozilla atau IE kemudian isi bar address dengan 131.100.55.58/cacti klik Graph\DC\Router DC , klik Juniper M10i DC• klik Gambar Juniper M10i DC – Traffic – STM-1 1/2/1 – TO – DRC• klik Gambar Juniper M10i DC – Traffic – STM-1 1/2/1 – TO – DRC (Monthly – 2 Hour Average)• Copy (CTRL+C)• Kembali ke Monthly Report.doc• Select ‘Traffic Utilization M10i DC Sudirman (STM1 DC-DRC)’ pada Monthly Report.doc• Paste (CTRL+V)• Kembali ke halaman pertama window 131.100.55.58/cacti Capture Traffic Utilization M10i DRC (STM1 DRC-DC) <ul style="list-style-type: none">• Buka Web dengan menggunakan Mozilla atau IE kemudian isi bar address dengan 131.100.55.58/cacti klik Graph\DRC\Router DRC , klik Juniper M10i DRC• Klik Gambar Juniper M10i DRC – Traffic STM-1 DRC to SUD Telkom - so-1/2/0• klik Gambar Juniper M10i DRC – Traffic STM-1 DRC to SUD so-1/2/0 (Monthly - 2 Hour Average)• Copy (CTRL+C)• Kembali ke Monthly Report.doc• Select ‘Traffic Utilization M10i DC Sudirman (STM1 DRC-DC)’ pada Monthly Report.doc• Paste (CTRL+V)• Kembali ke halaman pertama window 131.100.55.58/cacti Capture Traffic Utilization M10i DC GTI (STM1 GTI-DRC) <ul style="list-style-type: none">• Buka Web dengan menggunakan Mozilla atau IE kemudian isi bar address dengan 131.100.55.58/cacti klik Graph\DC\Router GTI Ragunan, klik Juniper M10i GTI• Klik Gambar Juniper M10i GTI – Traffic - so-0/3/0• klik Gambar Juniper M10i GTI – Traffic - so-0/3/0 (Monthly - 2 Hour Average)• Copy (CTRL+C)• Kembali ke Monthly Report.doc• Select ‘Traffic Utilization in Juniper M10i DC GTI (STM1 GTI-DRC)’ pada Monthly Report.doc• Paste (CTRL+V)• Kembali ke halaman pertama window 131.100.55.58/cacti
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		Capture Traffic Utilization M10i DRC (STM1 DRC-GTI) <ul style="list-style-type: none"> • Buka Web dengan menggunakan Mozilla atau IE kemudian isi bar address dengan 131.100.55.58/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 • klik Gambar Juniper M10i DRC – Traffic STM-1 DRC to GTI Icon+ - so-1/2/1 (Monthly - 2 Hour Average) • Copy (CTRL+C) • Kembali ke Monthly Report.doc • Select ‘Traffic Utilization in Juniper M10i DRC (STM1 DRC-GTI)’ pada Monthly Report.doc • Paste (CTRL+V) • Kembali ke halaman pertama window 131.100.55.58/cacti
4	Capture Traffic Utilization BCN DRC	Capture BCN-DRC Utilization (E34-M10) <ul style="list-style-type: none"> • Buka Web dengan menggunakan Mozilla atau IE kemudian isi bar address dengan 131.100.55.58/cacti klik Graph\DRC\Router DRC, klik BCN DRC • klik Gambar Traffic BCN DRC - CPU Usage • klik Gambar Traffic BCN DRC - Traffic - 60.1.2.161 (E34-M10) (Monthly - 2 Hour Average) • Copy (CTRL+C) • Kembali ke Monthly Report.doc • Select ‘Traffic Utilization BCN DRC’ pada Monthly Report.doc • Paste (CTRL+V) • Kembali ke halaman pertama window 131.100.55.58/cacti
5	Advance Replacement	Diisi jika ada Pengerjaan Maintenance Hardware dalam bulan berjalan.
6	Lampiran	<p>Daftar Absensi Personel MA-WCS Daftar absen semua personil WCS</p> <p>Daftar Lampiran Change Request Dokumen yang menerangkan bahwa ada change request dalam bulan berjalan.</p> <p>Log Email Notifikasi Dokumen yang menjelaskan secara detail kronologis terjadinya suatu masalah sampai selesainya suatu masalah tersebut.</p>

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
```



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```
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
```



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```
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*



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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#
```



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

Menghapus NAT Unidirection (Normal)

```
$bcc  
box>config  
box#ip;nat;delete;box
```

4.6 Juniper M10i

Membuat VRF Baru

Create VRF di Juniper M10i

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

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

PE DC:

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

PE DRC:

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

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

PE DC:

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

PE DRC:

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

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

PE DC:

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

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

```
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
```



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```
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

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	
DD																																		
CC																																		
BB																																		
AA																																		
Z																																		
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B	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	
A																																		

Koordinat Rak	Nama Rack
B1	HP Rack System (kosong)
B2	EMC Connectrix (kosong)
B3	WAN Optimizer (Kosong)
B4	RACK ICON+ baru
B5	RACK CSM
B8	AC LIEBERT 3
B14	Sensor Humadity & Sensor Temperatur
B19	RACK PATCH PANEL
B20	RACK ICON+
B21	RACK PHONE
B22	RACK BCN
B23	RACK PASSPORT 7400
B24	RACK FIREWALL
B25	RACK PASSPORT 8600
B26	Rack NEW 1
B27	Rack NEW 2
B28	Rack NEW 3
B30	RACK HPI
B33	Rack Intel Mounted 2
C31	Rack IBM Total Storage tape controller frame
E25	Tape Library
G24	Rack IBM System Storage
G25	Rack IBM System Storage
G26	Rack IBM System Storage
G27	Rack IBM System Storage
G29	Rack IBM System Storage
G30	Rack IBM System Storage
G31	Rack IBM System Storage
L26	Rack Storagetel 9741 E
M23	RACK INTEL BLADE 1
M26	CPU AS/400
M31	Dasd AS/400
N23	Rack EATL
N31	Dasd AS/400
O26	Dasd AS/400
O31	Dasd AS/400
P23	NetApp
P26	Dasd AS/400
P31	Dasd AS/400
Q23	NetApp
Q26	Dasd AS/400
Q31	Dasd AS/400
R23	Rack Intel FT 1
R26	Dasd AS/400
R31	Dasd AS/400
S23	Rack Intel Mounted 4
S26	Dasd AS/400
S31	Dasd AS/400
T26	Tape Storage
T31	Rack Pseries IBM (proswitching)
U23	Rack HPI 1
U26	Rack Inticom
U31	Rack Inticom
V23	Rack HPI 2
V26	Rack Inticom
V31	Rack Inticom
W23	Rack HPI 3
W26	Rack Inticom
W31	Rack Inticom
X23	Rack HPI 4
DD3	Panel PB
S13	Sensor Suhu Ruangan (3)
P28	Sensor Suhu Ruangan (2)
Z28	Sensor Suhu Ruangan (1)
CC6	AC LIEBERT 1
CC24	AC LIEBERT 2
DD31	Panel PW (SDP 5)
DD32	Panel PW (SDP 1)
W18	Rack Storage
W18	Rack Storage
X18	Rack Storage
Y18	Rack Storage
Y31	Rack Main Frame



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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
81	kosong	HP Hewlett Packard RACK System		Kosong		
82	kosong	RACK EMC CONECTRIX		Kosong		update 310510
83	kosong	Rack WAN Optimizer		Kosong		
		RACK ICON+ Baru				
84	U2	Slot Card D3		slot utama D3 dari Sandul	Icon+	
85	U8	Optix metro 155/622(metro 2050)			Icon+	
86	U27	Power Supply / rectifier		link from rack icon+	Icon+	
87						
88						
89						
90		AC Liebert 3			Jaya teknik	
		RACK LSM				
91	U34	Cisco Catalyst 3560 SH = FOC1243W1VL	P0502	L3 switch		
92	U35	Ether Access R1-E1	P0502	converter E1 to RJ	PT. Citra Sari Makmur	
93	U36	Ether Access R1-E1	P0502	converter E1 to RJ	PT. Citra Sari Makmur	
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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 SMC Switch port 6	64.0.0.X	Passport 8600 Port-1/12	64.0.0.1	I31	Aktif	update 270510
DTRA2					I31	kosong	
DTRA3					I31	kosong	
DTRA4	ECC Server	64.0.0.176	Passport 8600 Port-1/13	64.0.0.1	I31	Aktif	dipindahkan tgl 200510
DTRA5					I31	kosong	
DTRA6					I31	kosong	
DTRA7					I31	kosong	
DTRA8					I31	kosong	
DTRA9					I31	kosong	
DTRA10					I31	kosong	
DTRA11					I31	kosong	
DTRA12					I31	kosong	
DTRA13	AS/400 Line POLL rack 10 C12	68.0.0.100	Passport 8600 Port-1/7	68.0.0.1	032	Aktif	
DTRA14	AS/400 Line MIMIX rack 10 C14 T1 Frame 1	60.0.6.5	EX3200 mimix Port-10	60.0.6.1	032	Aktif	
DTRA15	AS/400 rack 10				032	tidak terpasang	
DTRA16	AS/400 Mimix-5 Rack 10 Frame 1 C14 T2	60.0.12.5	EX3200 mimix Port 20	60.0.1.1	032	Aktif	
DTRA17	AS/400 Rack 09 Frame 1 C-06	70.0.0.100	Passport 8600 Port-1/31	70.0.0.1	032	inactive / terpasang ga aktif	
DTRA18	AS/400 Line Pool#1 rack 9 C12	64.0.0.100	Passport 8600 Port-1/19	64.0.0.1	032	Aktif	
DTRA19	AS/400 rack 9				032	tidak terpasang	
DTRA20	AS/400 Line MIMIX rack 10				032	tidak terpasang	
DTRA21	AS/400 rack 8 C06				032	Terpasang tpi blum Aktif	
DTRA22	AS/400 Rack 08 Frame 1 C12	65.0.0.100			032	tidak terpasang	
DTRA23	AS/400 rack 8				032	tidak terpasang	
DTRA24	AS/400 rack 8				032	tidak terpasang	
DTRA25					U31	Kosong	
DTRA26					U31	Kosong	
DTRA27					Y31	Kosong	
DTRA28					Y31	Kosong	
DTRA29					S24	Kosong	
DTRA30							
DTRA31							
DTRA32							
DTRA33							
DTRA34	Avocent		3COM port 2		S24	Aktif	
DTRA35					S23		
DTRA36					S24	kosong	
DTRA37	SWIFT 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.



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5.4 Update Data Detail Perangkat Network

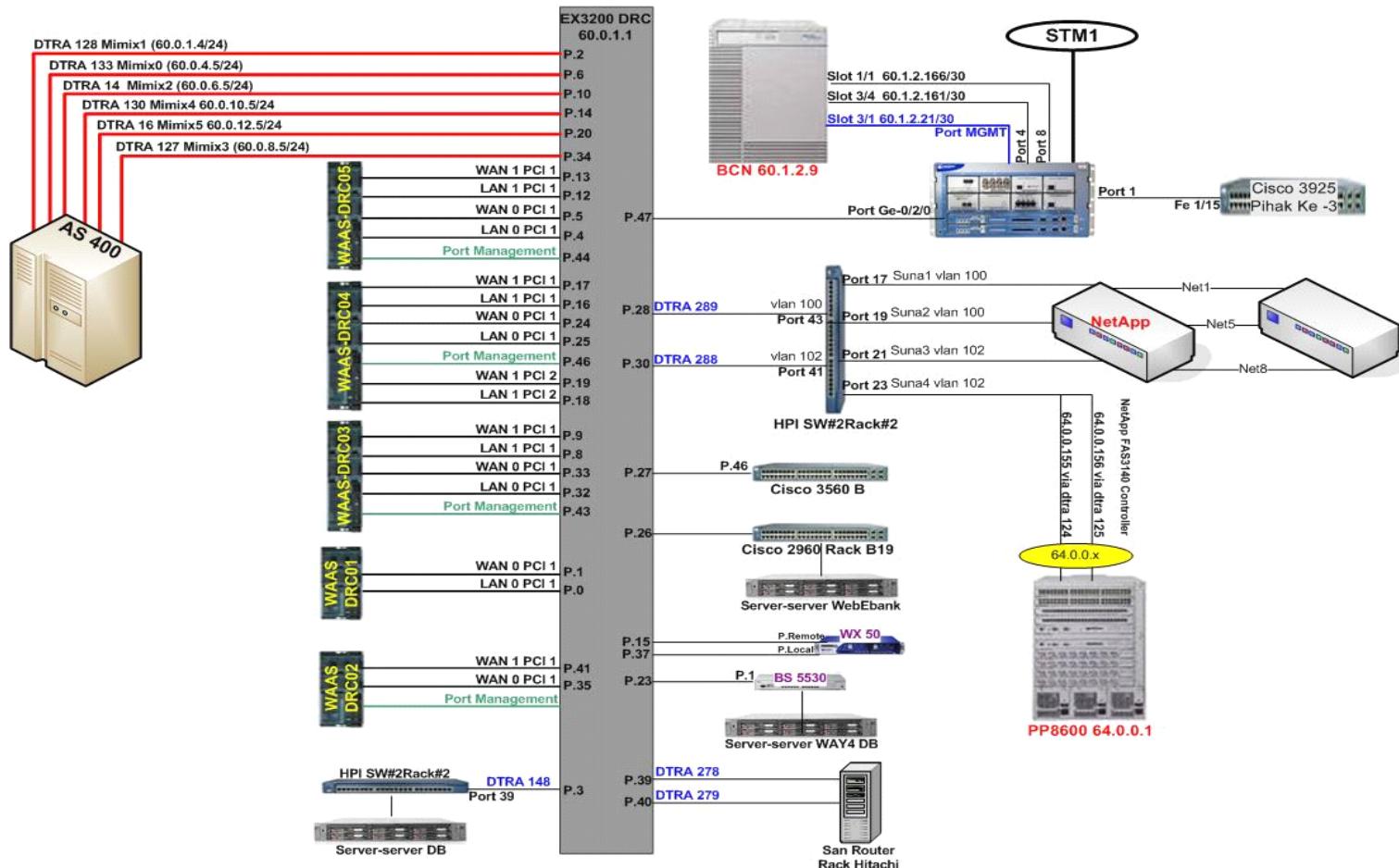
Bentuk Tabel Data Detail Perangkat Network yang dikerjakan MA-WCS

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 port 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	60.0.19.1/24	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 10 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								
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 8 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								
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 Ge-0/2/0 ip 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



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

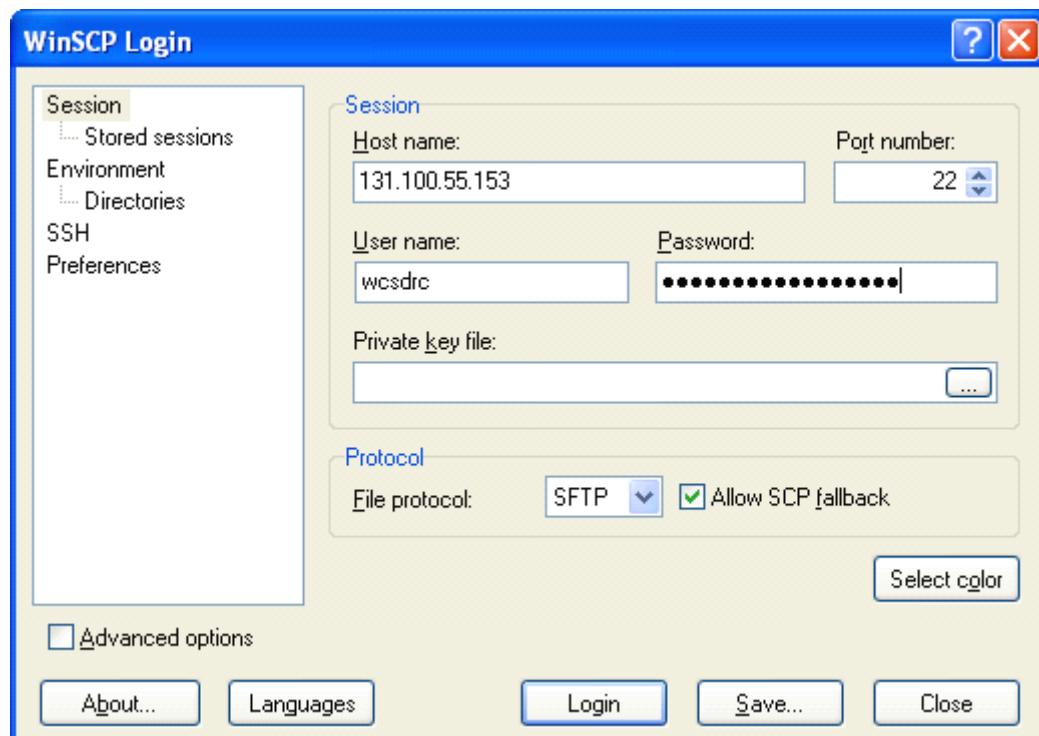
BAB 6. CARA MELAKUKAN FTP BACKUP CONFIGURATION

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

Cara melakukan FTP Backup Configuration :

1. Buka aplikasi WinSCP

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





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2. Setelah login maka akan menampilkan layout seperti dibawah ini

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



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D:\ - wcsdrct@131.100.55.153 - WinSCP

Local Mark Files Commands Session Options Remote Help

D:\ Data

D:\ 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 ...
- dhanay 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 Executable 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

D:\ Name Ext Size Changed Rights Owner

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

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:\ - wcsdrct@131.100.55.153 - WinSCP

Local Mark Files Commands Session Options Remote Help

D:\ Data

D:\ 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 ...
- dhanay 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 Executable 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

D:\ Name Ext Size Changed Rights Owner

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

0 B of 0 B in 0 of 13

SFTP-3 0:05:44



DIS/PAN-04-01-00 : 13:00:01

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

/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 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

SFTP-3 0:07:15

Operasional - wcsdrc@131.100.55.153 - WinSCP

Local Mark Files Commands Session Options Remote Help

D:\Data

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

/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 1

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 0:08:09



DIS/PAN-04-01-00 : 13:00:01

2012 - wcsdrce@131.100.55.153 - 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 ...	

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

/home/wcsdrce/root/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 0 of 13

SFTP-3 0:09:18

24 - wcsdrce@131.100.55.153 - 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...	xls	57,344	Microsoft Excel ...	5/24/2012 ... a	
~lock_(GTI-DRC) RPO DC with traffic Compress...	xls#	140	XLSS File	5/24/2012 ... ah	

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

/home/wcsdrce/root/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 0 of 13

SFTP-3 0:09:51



DIS/PAN-04-01-00 : 13:00:01

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

File Explorer Left (E:\DATA):

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

File Explorer Right (/home/wcsdrc):

Name	Ext	Size	Changed	Rights	Owner
..			8/10/2010 1:43...	rwxr-xr-x	
root			9/8/2010 6:05...	rwxr-x---	wcsdrc
.ssh			3/10/2010 7:01...	rwx-----	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--r	wcsdrc
examples.desktop		357	1/22/2010 11:5...	rw+r---r	wcsdrc
.profile		675	1/22/2010 11:5...	rw+r--r-	wcsdrc

File Explorer Left (E:\DATA):

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

File Explorer Right (/home/wcsdrc/root):

Name	Ext	Size	Changed	Rights	Owner
..			7/30/2010 9:54...	rwxr-xr-x	
ARCHIVE			9/1/2010 9:40...	rwxr-x---	wcsdrc
bcn			9/1/2010 9:47...	rwxr-x---	wcsdrc
cat45A			9/1/2010 9:49...	rwxr-x---	wcsdrc
cat45B			9/1/2010 9:52...	rwxr-x---	wcsdrc
EX8200A			9/1/2010 9:54...	rwxr-x---	wcsdrc
EX8200B			9/1/2010 9:55...	rwxr-x---	wcsdrc
EXMINIX32			9/1/2010 9:56...	rwxr-x---	wcsdrc
Jseries			9/1/2010 9:57...	rwxr-x---	wcsdrc
M10			9/8/2010 12:41...	rwxr-x---	wcsdrc
PP8600			9/9/2010 8:42...	rwxr-x---	wcsdrc
SRXA			9/8/2010 12:43...	rwxr-x---	wcsdrc
SRXB			9/8/2010 12:43...	rwxr-x---	wcsdrc



DIS/PAN-04-01-00 : 13:00:01

WinSCP Session: ARCHIVE - wcsdrc@131.100.55.153 - WinSCP

Local Mark Files Commands Session Options Remote Help

E:\DATA

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

ARCHIVE

/home/wcsdrc/root/ARCHIVE

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

0 B of 0 B in 1 of 3

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

SFTP-3 0:05:04

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

Local Mark Files Commands Session Options Remote Help

E:\DATA

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

09 - September 2010

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

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

0 B of 0 B in 1 of 15

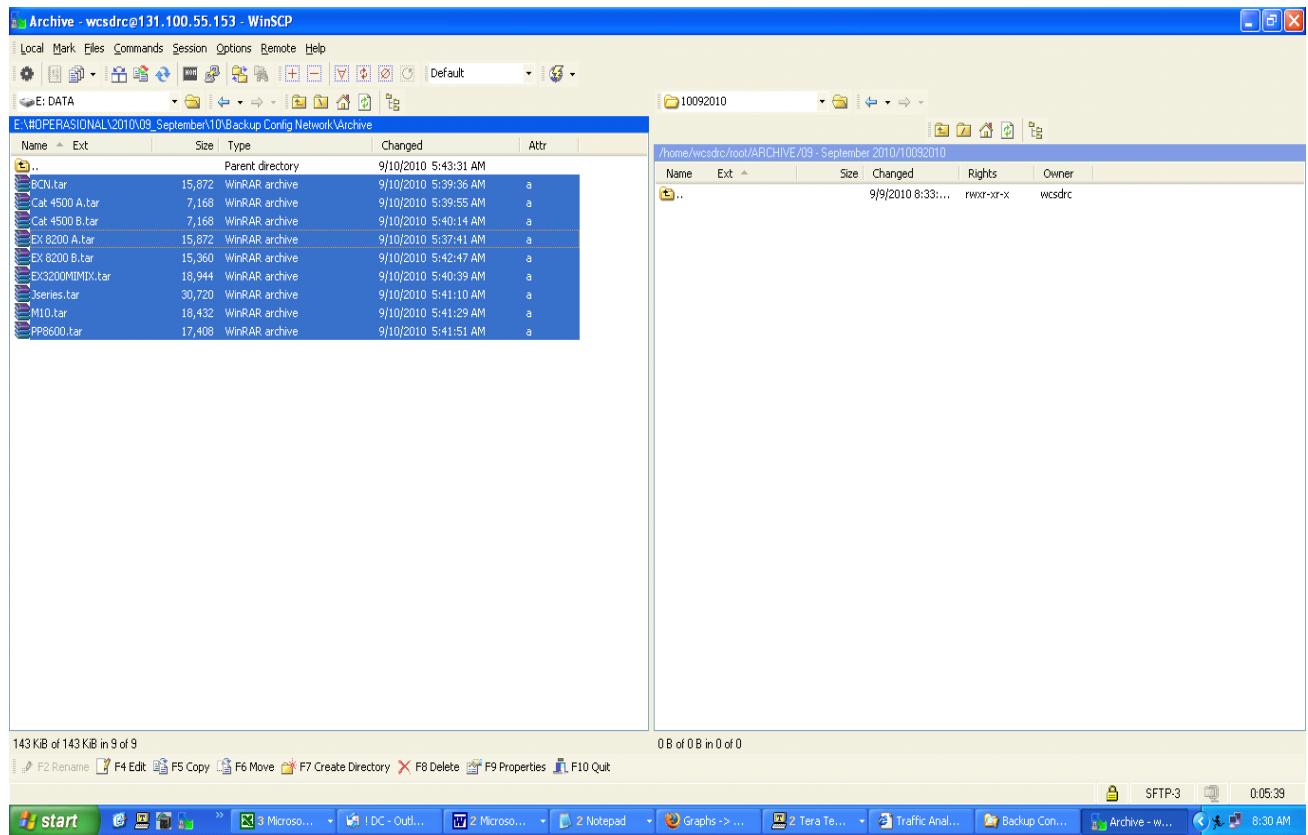
start Micro... IDC - Out... Micro... Notepad Graphs > ... Tera Te... Traffic Anal... Backup Con... 09 - Septe... 8:29 AM

SFTP-3 0:05:15

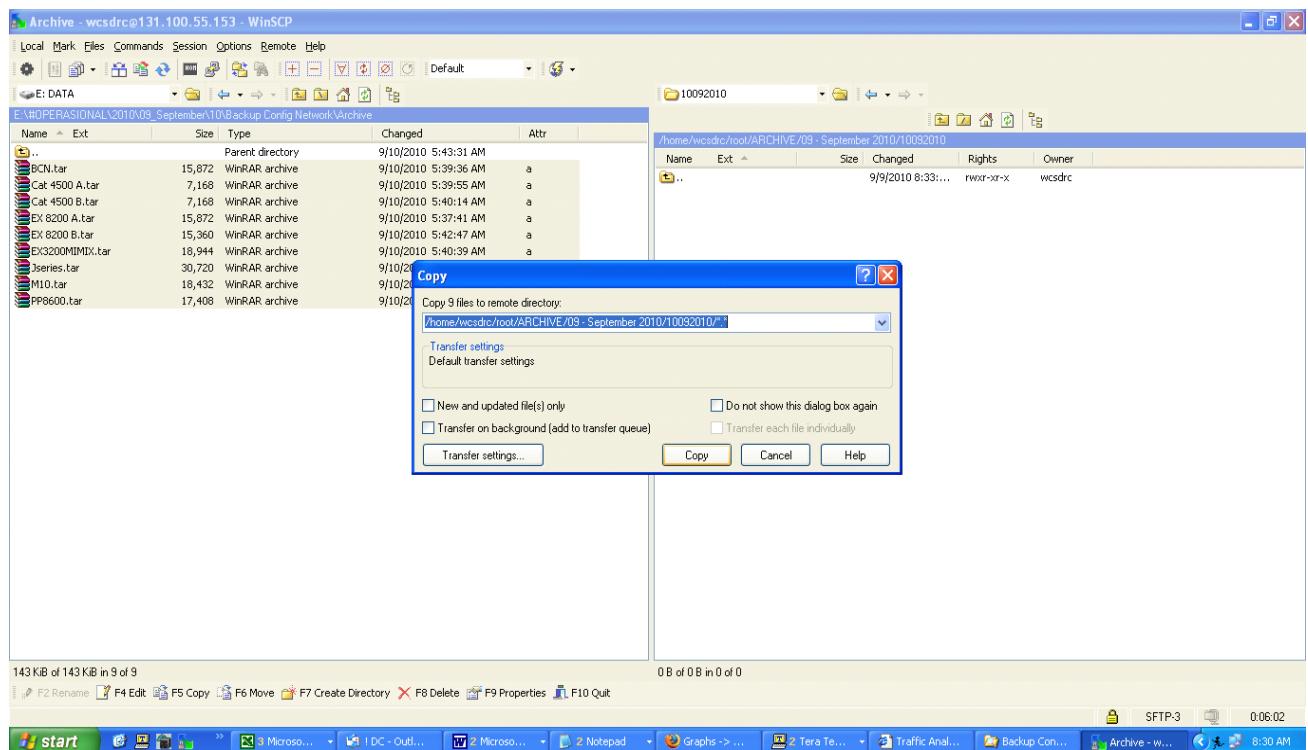


DIS/PAN-04-01-00 : 13:00:01

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



6. Kemudian drag file tersebut ke kolom daerah FTP Server





DIS/PAN-04-01-00 : 13:00:01

Archive - wcsdrc@131.100.55.153 - WinSCP

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

E:\DATA

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

0:06:22

7. Setelah selesai melakukan FTP , close aplikasi WinSCP

wcsdrc - wcsdrc@131.100.55.153 - WinSCP

Session Options Remote Help

New Session... Ctrl+N

Duplicate Session

Saved Sessions

Opened Sessions

Save Session...

Disconnect Shift+Ctrl+D

wcsdrc

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

0 B of 14,548 B in 0 of 2

0 B of 6,608 B in 0 of 7

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

Terminate current session

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



DIS/PAN-04-01-00 : 13:00:01

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 Engineer DRC atau Supervisor DRC, kemudian mengkonfirmasikan masalahnya dengan operator WCS di DC untuk kemudian dikonfirmasikan ke pihak OJK DC.

7.1 Event Log

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

Berikut contoh form “Event Log”.

Microsoft Excel - Event Log 2012.xls										
No.	Case open (WITA)	Case Close (WITA)	Total Time	Caller Name	Caller Org	Call type	Product Name	Solution-Descriptions	Helpdesk-WCS	
1	PT. WAHANA CIPTA SINATRIA Network System Integrator, Communications & Services Wisma Cormic Jl. Suryopranoto No 1-9 Tel : 62-21-3501555 Fax : 62-21-3866128									
2	1/5/2012 14:00	1/5/2012 14:01	1 menit	Nugroho Pancayogo	TSI_ODR	Network	Catalyst 2950 Web-Ebank	Disable Port 41 switch rack 1 83 server HP1 to Catalyst 2950 Web-Ebank Port 18	Wahyu N	
3	2	1/5/2012 14:05	1/5/2012 14:06	1 menit	Nugroho Pancayogo	TSI_ODR	Network	Catalyst 2950 Web-Ebank	Disable Port 43 switch rack 1 83 server HP1 to Catalyst 2950 Web-Ebank Port 6	Wahyu N
4	3	1/5/2012 15:05	1/5/2012 15:06	1 menit	Nugroho Pancayogo	TSI_ODR	Network	PP8600	Delete Ip Address di PP8600 Pool 3 Ip 66.0.0.250	Wahyu N
5	4	1/5/2012 16:00	1/5/2012 16:05	5 menit	Nugroho Pancayogo	TSI_ODR	Network	PP8600	Penarikan Kabel dari PP8600 Port 24 ke AS400 Ip 65.0.0.X via DTRA 119	Wahyu N
6	5	1/5/2012 16:06	1/5/2012 16:07	1 menit	Nugroho Pancayogo	TSI_ODR	Network	PP8600	Penarikan Kabel dari PP8600 Port 45 ke AS400 Ip 66.0.0.X via DTRA 18	Wahyu N
7	6	16/05/12 07:00	16/05/2012 10:00	3 jam	-	-	-	Wley 4 kompresi hanya 1x, setelah report ke DC lalu ditangani CUK kompresi kembali berjalan normal	Nugraha Pratama	
8	7	24/05/12 14:00	24/05/12 14:30	30 menit	Nurdi	TSI_ODR	Network		Penarikan kabel dari EX8208 A Port 20 ke Catalyst 2950 Port 24 Koordinat P23	Nugraha Pratama
9	8	25/05/12 14:30	25/05/12 14:45	15 menit	IBM	IBM	Network	AS400	Teteh ke 172.18.254.100 dari pc ibm mengalami gangguan, setelah report ke CUK ternyata ada pengajaran di M10 GTI	Nugraha Pratama
10	9	28/05/12 03:38	28/05/12 04:13:00	35 Menit			Network	Network	Down Link STMI DRC – SUD via TELKOM	Ediyanto
11	10	28/05/12 05:26:40	28/05/12 05:27:04	24 detik			Network	Network	Flapping Link STMI DRC- SUD via TELKOM	Ediyanto
12	11	28/05/12 05:31:13	28/05/12 05:31:48	33 detik			Network	Network	Flapping Link STMI DRC- SUD via TELKOM	Ediyanto
13	12	28/05/12 06:00:06	28/05/12 06:00:41	35 detik			Network	Network	Flapping Link STMI DRC- SUD via TELKOM	Ediyanto
14	13	28/05/12 06:04:07	28/05/12 06:04:37	30 detik			Network	Network	Flapping Link STMI DRC- SUD via TELKOM	Ediyanto
15	14	28/05/12 06:13:11	28/05/12 06:13:42	31 detik			Network	Network	Flapping Link STMI DRC- SUD via TELKOM	Ediyanto
16	15	28/05/12 06:33:37	28/05/12 06:34:08	31 detik			Network	Network	Flapping Link STMI DRC- SUD via TELKOM	Ediyanto
17										
18										
19										
20										
21										
22										
23										

7.2 Email Notifikasi

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

Original Message -----

From: dailydrc_wcs

To: DC WCS ; cs@iconpln.co.id

Cc: tsi_odr@bri.co.id; tsi_CJK@bri.co.id ; doni.arzinal@corp.bri.co.id; dani.wf@corp.bri.co.id ; gunawan.amin@ipnetsolusindo.com; anzhari.purnomo@ipnetsolusindo.com; wildan.fauzi@ipnetsolusindo.com ; johan@ipnetsolusindo.com

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

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

Dear All,

berikut kronologis link STM-1 DRC to GTI Down

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

Hasil Capture M10 yang terlampir :

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

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

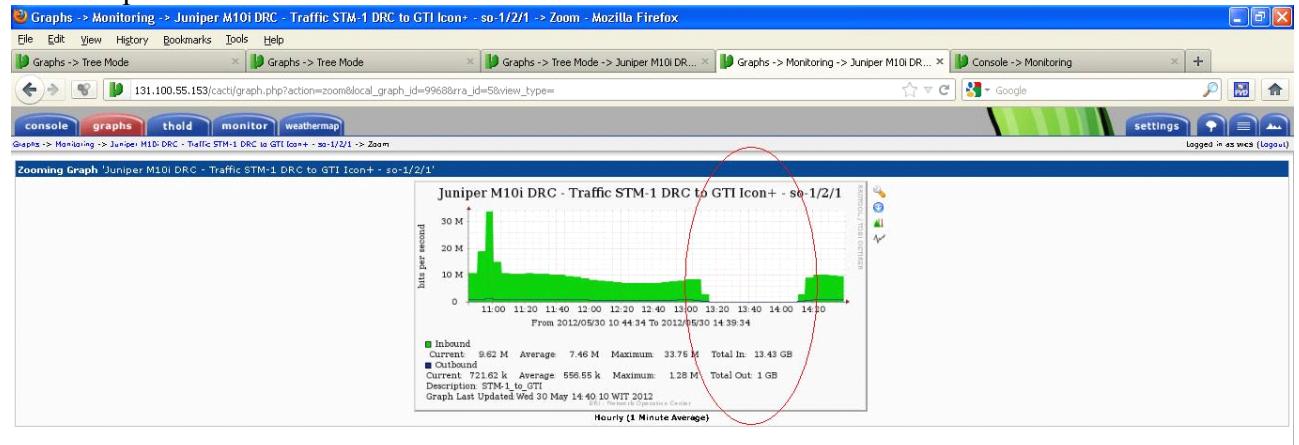
```
wcsdrc@cacti: ~
(realm ospf-v2 so-0/3/0.0 area 0.0.0.0) state changed from Full to Down due to KillNbr (event reason: interface went down)
May 30 13:10:52 M10-GTI rpd[1433]: RPD_RSVP_NBRDOWN: RSVP neighbor 192.168.2.10
down on interface so-0/3/0.0, triggered by IGP neighbor down event
May 30 13:10:52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

admin@M10-GTI>
```



DIS/PAN-04-01-00 : 13:00:01

Hasil Capture Cacti :



Regards

Nugraha Pratama
WCS DRC

BAB 8. JADWAL MA - WCS

Jadwal WCS DRC

Juni 2012

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

Keterangan

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

Note :
Hari kerja kantor = 21 hari

Tabanan, 30 Mei 2012

Mengetahui

Mengetahui

Nugraha Pratama
WCS

Supervisor BRI



DIS/PAN-04-01-00 : 13:00:00

LAMPIRAN

A. Change Request MA – WCS



Change Request Form WCS



Requested by :

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

Date Required : XX/XX/20XX

Change type :

Application Software Other (*)
 Hardware Network HOP _____

Change description :

Remarks :

Change Approval :
Bank Rakyat Indonesia

WCS Operation :

Requester :

Date : XX/XX/20XX

Date : XX/XX/20XX

Date : XX/XX/20XX

Review/Assessment Result :

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



DIS/PAN-04-01-00 : 13:00:00

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 : 13:00:00

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

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

Tabanan, 31 Agustus 2010

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

Yang menyerahkan	Yang menerima	#Badge ID

Demikian berita acara ini kami sampaikan.

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



DIS/PAN-04-01-00 : 13:00:00

C. Bentuk Berita Acara Serah Terima Jabatan MA-WCS

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

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

I. **N a m a** :
Jabatan : **Team Leader WCS**

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

II. **N a m a** :
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
<p>(.....)</p>	
<p>Mengetahui,</p>	
	<p>(.....)</p>
<p>Kabag/Wakabag -ODR</p>	



DIS/PAN-04-01-00 : 13:00:00

D. Bentuk Berita Acara Preventive Maintenance MA-WCS

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

Tabanan, 31 Maret 2011

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

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

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

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

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

Pihak Pertama	Pihak Kedua
<u>(.....)</u>	<u>(.....)</u>
Mengetahui,	



DIS/PAN-04-01-00 : 13:00:00

E. Bentuk Berita Acara Laporan Bulanan



**BERITA ACARA
SERAH TERIMA LAPORAN BULANAN
NO. XXX/BRI/WCS/X/XXXX**

Tabanan, XX - XX - XXX

Pihak Pertama menyerahkan Laporan Bulanan MA-WCS ODR untuk bulan XX tahun XXXX kepada **Pihak Kedua**. **Pihak kedua** menerima penyerahan Laporan Bulanan MA-WCS BRI – ODR untuk Bulan XX tahun XXXX 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>XXXXXXXX</u> MA - WCS	<u>XXXXXXXXXXXX</u> Engineer - ODR
Mengetahui,	
<u>XXXXXXXXXX</u>	



DIS/PAN-04-01-00 : 13:00:00

Kabag / Wakabag -ODR

F. Bentuk Checklist MA – WCS

		Indicator			Normal	January																														
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31				
BCN		Power	Green																																	
		Run	Green																																	
		Blink	Off																																	
		Diag	Off																																	
		Slot 1	Module D100BT	Fail	Off																															
Slot 2		Module S10T10DW	Fail	Off																																
		Module 10/100 Base TX	Fail	Off																																
		Module SRM1L	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																																
CPU Utilisation																																				
Slot 1																																				
Slot 2																																				
Slot 3																																				

		Indicator			Normal	January																														
Slot	Module	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31				
RE0/0	PCIE modules	Major	Off																																	
		Minor	Off																																	
		Per	Green																																	
		Master	Blue																																	
RE0/1	PCIE modules	Major	Off																																	
		Minor	Off																																	
		Per	Green																																	
		Master	Off																																	
RE0/0	RE400	HDD	Off																																	
		Fail	Off																																	
		Master	Blue																																	
		Online	Green																																	
0/1	Ethernet 10/100 Base-TX	Status	Green																																	
CPU Utilisation																																				



DIS/PAN-04-01-00 : 13:00:00

Device Name : Juniper J6350

J6350	Indicator	Normal	January																																		
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31				
		Power	Green																																		
		Alarm	Orange																																		
		Status	Green																																		
		RA	Off																																		
Slot	Module	Media	POE ACTIVE	Online	Green																																
Back Panel				Check																																	
Slot	Module	Indicators	Status	Power Supply	Green																																
PSU 1	Power Supply	Power Supply	Green	PSU 2	Power Supply	Power Supply	Green																														
CPU Utilisation																																					

Device Name : Passport 8600 Firmware : 3.5.1.0

Slot	Module	Indicators	Normal	January																																		
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31				
1	1641TNE	Online	Green																																			
3	1601GBE	Online	Green																																			
8	8601SFP286	Online	Green																																			
		Power Supply 1	Green																																			
		Power Supply 2	Green																																			
		Fan 1	Green																																			
		Fan 2	Green																																			
		Temp	Green																																			
		Master	Blinking																																			
6	8601SFP286	Online	Green																																			
		Power Supply 1	Green																																			
		Power Supply 2	Green																																			
		Fan 1	Green																																			
		Fan 2	Green																																			
		Temp	Green																																			
		Master	Off																																			
PSU	Power Supply 1	PSU 1	Green																																			
PSU	Power Supply 2	PSU 2	Green																																			
CPU Utilisation																																						



DIS/PAN-04-01-00 : 13:00:00

Device Name : Juniper EX 3200 Mimix

Indicator	Normal	January																															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Power	Green																																
Alarm	Red																																
SVS	Green																																
MST	Green																																
CPU Utilisation																																	

Device Name : Juniper EX 3200 L2VPN

Indicator	Normal	January																															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Power	Green																																
Alarm	Red																																
SVS	Green																																
MST	Green																																
CPU Utilisation																																	

Device Name : Baystack 5510 User Firmware : 1.0.0.19

Indicator	Normal	January																															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Power	Green																																
Bias	Off																																
Up *	Off																																
Down *	Off																																
CPU Utilisation																																	

Device Name : Baystack 5510 RTGS Firmware : 1.0.0.19

Indicator	Normal	January																															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Power	Green																																
Bias	Off																																
Up	Off																																
Down	Off																																
CPU Utilisation																																	



DIS/PAN-04-01-00 : 13:00:00

Device Name : Juniper EX 8208 A

		Indicators	Normal	January																																			
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31					
EX 8208		Alarm	Red																																				
		SVS	Orange																																				
		MS	Green																																				
		ST	Green																																				
Slot 0	Module EX8208 SRE 48T	ON	Green																																				
		ST	Green																																				
		ON	Green																																				
		ST	Green																																				
Slot SRE 0	Module EX8208 SRE 32G	MS	Green																																				
		SF	Green																																				
		ON	Green																																				
		ST	Green																																				
Slot SF	Module EX8208 SF 32G	MS	Green Blinking																																				
		SF	Green Blinking																																				
Slot SRE 1	Module EX8208 SRE 32G	ON	Green																																				
		ST	Green																																				
		MS	Green Blinking																																				
		SF	Green Blinking																																				

PSU	Power Supply	Enable Power	ON																																				
		Input OK	Green																																				
PSU1	Power Supply	Output OK	Green																																				
		Fault	Off																																				
PSU2	Power Supply	Enable Power	Standby																																				
		Input OK	Off																																				
PSU3	Power Supply	Output OK	Off																																				
		Fault	Off																																				
CPU Utilisation Slot SRE 0																																							
CPU Utilisation Slot SRE 1																																							



DIS/PAN-04-01-00 : 13:00:00

Device Name : Juniper EX 8208 B

		Indicator	Normal	January																																		
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31				
EX 8208		Alarm	Red																																			
		SV3	Orange																																			
		MS1	Green																																			
		Slot 0	Module EX8208 SRE 48T	ON	Green																																	
		SRE 0	Module EX8208 SRE 32G	ST	Green																																	
				ON	Green																																	
				ST	Green																																	
				MS	Green																																	
		SRE 1	Module EX8208 SF 32G	SF	Green																																	
				ON	Green																																	
				ST	Green																																	
				MS	Green Blinking																																	
		SRE 1	Module EX8208 SF 32G	SF	Green Blinking																																	

PSU0		Power Supply	Enable Power	ON																																			
			Input OK	Green																																			
			Output OK	Green																																			
			Fail	Off																																			
PSU1		Power Supply	Enable Power	ON																																			
			Input OK	Green																																			
			Output OK	Green																																			
			Fail	Off																																			
PSU2		Power Supply	Enable Power	Standby																																			
			Input OK	Off																																			
			Output OK	Off																																			
			Fail	Off																																			
PSU3		Power Supply	Enable Power	Standby																																			
			Input OK	Off																																			
			Output OK	Off																																			
			Fail	Off																																			
CPU Utilisation Slot SRE 0																																							
CPU Utilisation Slot SRE 1																																							



DIS/PAN-04-01-00 : 13:00:00

Device Name : Juniper SRX3400 A

	Indicator	Normal	January																															
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
SRX	Alarm Yellow	Off																																
	Alarm Red	Off																																
	SFB	Green																																
	HA	Off																																
	CFM Services	Green																																
	CFM OK/Fail	Green																																
	REO/RE1	Green																																
	PWR	Off																																
	FAN	Green																																

Back Panel			January																																
Slot	Module	Indicator	Normal	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
PSU	PSU0	Power Supply	Status	Green																															
PSU	PSU1	Power Supply	Status	Green																															
Slot 5	SRX3K-NPC	Services	Green																																
		OK/Fail	Green																																
Slot 6	SRX3K-SPC1-10-40	Services	Green																																
		OK/Fail	Green																																
REO	Online	OK/Fail	Green Blinking																																
	Routing Engine	Master	Blue																																
		Status	Green																																
	HDD	Off																																	
	FBB Controller	Status	Green																																

Device Name : Juniper SRX3400 B

	Indicator	Normal	January																															
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
SRX	Alarm Yellow	Off																																
	Alarm Red	Off																																
	SFB	Green																																
	HA	Off																																
	CFM Services	Green																																
	CFM OK/Fail	Green																																
	REO/RE1	Green																																
	PWR	Off																																
	FAN	Green																																

Back Panel			January																															
Slot	Module	Indicator	Normal	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
PSU	PSU0	Power Supply	Status	Green																														
PSU	PSU1	Power Supply	Status	Green																														
Slot 5	SRX3K-NPC	Services	Green																															
		OK/Fail	Green																															
Slot 6	SRX3K-SPC1-10-40	Services	Green																															
		OK/Fail	Green																															
REO	Online	OK/Fail	Green Blinking																															
	Routing Engine	Master	Blue																															
		Status	Green																															
	HDD	Off																																
	FBB Controller	Status	Green																															



DIS/PAN-04-01-00 : 13:00:00

Device Name : Cisco Catalyst 4506 A

Cisco 4506		Indicator	Normal	January																																		
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31				
		Fan Status	Green																																			
Disk 1	WS-X4411 Supervisor Engine 2V	Status	Green																																			
Disk 2	48 port Multi-Speed Gigabit Ethernet Switching Module	Status	Green																																			
PSU 1	Power Supply	Input OK	Green																																			
		Fan OK	Green																																			
		Output Fail	Off																																			
PSU 2	Power Supply	Input OK	Green																																			
		Fan OK	Green																																			
		Output Fail	Off																																			
CPU Utilisation																																						

Device Name : Cisco Catalyst 4506 B

Cisco 4506		Indicator	Normal	January																																			
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31					
Fan Status	Green																																						
Disk 1	WS-X4411 Supervisor Engine 2V	Status	Green																																				
Disk 2	48 port Multi-Speed Gigabit Ethernet Switching Module	Status	Green																																				
PSU 1	Power Supply	Input OK	Green																																				
		Fan OK	Green																																				
		Output Fail	Off																																				
PSU 2	Power Supply	Input OK	Green																																				
		Fan OK	Green																																				
		Output Fail	Off																																				
CPU Utilisation																																							

January																																			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31					
Paraf WCS																																			
Paraf Supervisor BRI																																			



DIS/PAN-04-01-00 : 13:00:00

Problem Report





DIS/PAN-04-01-00 : 13:00:00

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 pindahannya 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		



**BERITA ACARA
PENGESAHAN HOP WCS
NO. 024/BRI /WCS/IX/2013**

Tabanan, 09 September 2013

Pada hari ini tanggal 09 September 2013 bertempat di BRI ODR Tabanan, Saya yang bertanda tangan dibawah ini :

Nama : **Afif Taslim**
Jabatan : **Team Leader MA-WCS**
Selanjutnya disebut **Pihak Pertama**.

Nama : **M. Reza Pahlevi**
Jabatan : **Pgs Kabag - BRI ODR**
Selanjutnya disebut **Pihak Kedua**.

Pihak Pertama menyerahkan pengesahan HOP WCS DRC dengan No.DIS/PAN-04-01-00 : 13:00:00 ke **Pihak Kedua**. **Pihak kedua** menerima pengesahan HOP WCS DRC dengan No.DIS/PAN-04-01-00 : 13:00:00 dari **Pihak Pertama**.

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

Pihak Pertama	Pihak Kedua
 Afif Taslim MA - WCS	 M. Reza Pahlevi Pgs Kabag - ODR



Change Request Form WCS



Requested by :

Name : I Wayan Surya Prianara
Dept : TSI-ODR
Phone:

Ref.# : 016-MA/DRC/09/2013
Date received : 14/09/2013
Date closed : 14/09/2013

Date Required : **14/09/2013**

Change type :

Application Software Other (*)
 Hardware Network X HOP

Change Impact :

- Perubahan pada HOP MA-WCS DRC :
 1. Perubahan isi BAB.1 PENDAHULUAN
 - Perubahan point 1.2 Pemakai
 2. Perubahan isi BAB.2 UMUM
 - Perubahan point 2.3 Maintanance & Operasional Konektivitas Jaringan DC-DRC
 - Update kegunaan BCN & Juniper M10i
 - Perubahan point 2.4 Sistem Reporting
 - Update pengiriman Laporan Harian (*Daily Report*) & Laporan Bulanan (*Monthly Report*)
 - Perubahan point 2.5 Network Diagram LAN-DRC
 - Update topologi LAN-DRC ke versi terbaru
 3. Perubahan isi BAB 3 PROSEDUR OPERASIONAL.
 - Update isi point 3.1.2 EX8200
 - Update isi point 3.1.3 Nortel Baystack 5530 dan Baystack 5510
 - Update isi point 3.1.4 Juniper EX3200
 - Update isi point 3.1.6 Juniper J6350
 - Update isi point 3.1.7 Juniper M10i
 - Update isi point 3.1.8 Catalyst 4503
 - Penghapusan point 3.1.8 Juniper SRX 3400
 - Perubahan isi point 3.2 Membuat Daily Report
- Buka index.htm di Web Mozilla atau IE , pada kolom bar address isi 131.100.55.58/cacti
- Penambahan Capture Traffic MIMIX 60.0.6.5 P/6

- Penambahan Capture WAN 0 WAAS 5 60.0.4.6 P/5
- Penambahan Capture Traffic NetApp EX3200 P/28
- Revisi title Capture WAY4 menjadi Capture WAY4 & Mainframe
- Perubahan point 3.4 Capture Traffic (RPO)
- Revisi contoh hasil capture RPO
Buka index.htm di Web Mozilla atau IE , pada kolom bar address isi 131.100.55.58/cacti
- Penambahan Capture RPO with Compression MIMIX 60.0.6.5
- Penambahan Traffic NetApp EX3200 P/28
- Penambahan point 3.8 Membuat Monthly Report

4. Perubahan isi BAB. 7 ESKALASI MASALAH

5. Perubahan isi LAMPIRAN

- F. Bentuk Checklist MA-WCS
- Update bentuk checklist dengan versi yang baru

Rollback Plan:

- Reload Previous Config

Change Approval :

Bank Rakyat Indonesia



M. Reza Pahlevi

Date : 14/09/2013

Requester :



I Wayan Surya Priantara

Date : 14/09/2013

WCS Operation :



Endri Putro P

Date : 14/09/2013

****) Please specify***