

Laporan Preventive Maintenance DRC Batam

Periode: Agustus, Tahap II Tahun 2025

1. Dokumen versi

PT. Trimitra Data Teknologi	Dokumen Laporan Preventive Maintenance
Versi	Versi 0.01
Klasifikasi Sensitivitas	Rahasia Perusahaan - Informasi Klien / Vendor
Pemilik Dokumen	

Persiapan

Tindakan	Nama	Peran / Fungsi	Tanggal
Disiapkan oleh:	Ervyl Arwianda	Network Services / Engineer Onsite	07-08-2025 & 28-06-2025
Ditinjau / Disetujui oleh:	Alugoro Agung Prabowo	Project Manager	

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2. Ringkasan Eksekutif

Laporan *Preventive Maintenance* ini merupakan laporan yang menjelaskan status perangkat di DRC Batam Kemendagri terkait pelaksanaan dukungan pemeliharaan yang telah disepakati. Laporan ini mengidentifikasi status perangkat lunak, status perangkat keras, *upgrade firmware* dan juga memberikan saran sesuai dengan penerapan terbaik.

3. Pendahuluan

Lingkup dari dokumen *Preventive Maintenance* ini meliputi lokasi DRC Batam. dibuat berdasarkan **Surat Perintah Mulai Kerja (SPMK) nomor: 000.4/1002/PIAK.2025** dan surat perjanjian **Paket Pekerjaan Pengadaan Jasa Lainnya Annual Technical Support Server dan Storage DRC nomor: 000.4/1001/PIAK.2025, tertanggal 23 Januari 2025.**

Dukungan Dasar

- Engineer on site 24 jam x 7 hari
- Layanan 24 jam x 7 hari dengan respon time maksimal 4 jam
- Spare Part Management Service (SPMS)
- Hardware & Software Updates
- Preventive Maintenance per 3 bulan
- Melakukan Corrective Maintenance
- Laporan Harian, Mingguan, Bulanan & Quarterly

4. Lingkup Laporan Preventive Maintenance

Ruang lingkup pekerjaan *Annual Technical Support* Server dan *Storage* DRC Batam Tahun 2025 adalah sebagai berikut:

1. Pekerjaan *Annual Technical Support* Server dan *Storage* DRC Batam Tahun 2025 diselenggarakan dengan ketentuan khusus yaitu menyediakan *Annual Technical Support* sampai 31 Desember 2025 dan dengan Metode pelaksanaan pekerjaan ***Annual Technical Support Server dan Storage DRC Batam*** ini adalah dengan cara menyediakan dukungan teknis baik dalam bentuk *regular monitoring*, *preventive* maupun *corrective maintenance* pada perangkat server dan *Storage* yang ada di DRC Batam yang meliputi:

No	Jenis Perangkat/Barang	Serial Number	Volume (unit)	Kode BMN	Tahun
Hewlett Packard					
1	HPE Synergy12000 CTO Frame	SGH947TK8R	1	3.10.02.01.999.01	2019
2	HPE Synergy12000 CTO Frame	SGH929YY0M	1	3.10.02.04.001.7944	2019
3	HPE SY 480 Gen10	SGH947TQVR	1	3.10.02.04.001.7923	2019
4	HPE SY 480 Gen10	SGH947TQVG	1	3.10.02.04.001.7924	2019
5	HPE SY 480 Gen10	SGH947TQVP	1	3.10.02.04.001.7925	2019
6	HPE SY 480 Gen10	SGH947TQVL	1	3.10.02.04.001.7926	2019
7	HPE SY 480 Gen10	SGH947TQVJ	1	3.10.02.04.001.7927	2019
8	HPE SY 480 Gen10	SGH947TQVS	1	3.10.02.04.001.7928	2019
9	HPE SY 480 Gen10	SGH947TQVT	1	3.10.02.04.001.7945	2019
10	HPE SY 480 Gen10	SGH947TQVX	1	3.10.02.04.001.7946	2019

11	HPE SY 480 Gen10	SGH947TQVQ	1	3.10.02.04.001.7947	2019
12	HPE SY 480 Gen10	SGH947TQVH	1	3.10.02.04.001.7948	2019
13	HPE SY 480 Gen10	SGH947TQVY	1	3.10.02.04.001.7949	2019
14	HPE SY 480 Gen10	SGH929S333	1	3.10.02.04.001.7950	2019
15	HPE SY 480 Gen10	SGH929S335	1	3.10.02.04.001.7951	2019
16	HPE SY 480 Gen10	SGH929S337	1	3.10.02.04.001.7952	2019
17	HPE SY 480 Gen10	SGH947TQVV	1	3.10.02.04.001.7953	2019
18	HPE SY 480 Gen10	SGH947TQVW	1	3.10.02.04.001.7954	2019
19	HPE SY 480 Gen10	SGH947TQVZ	1	3.10.02.04.001.7955	2019
20	HPE SY 480 Gen10	SGH929S339	1	3.10.02.04.001.7956	2019
21	HPE SY 480 Gen10	SGH929S33C	1	3.10.02.04.001.7957	2019
22	HPE SY 480 Gen10	SGH929S33F	1	3.10.02.04.001.7958	2019
23	HPE SY 480 Gen10	SGH947TQVN	1	3.10.02.04.001.7959	2019
24	HPE SY 480 Gen10	SGH947TQVM	1	3.10.02.04.001.7960	2019
25	HPE SY 480 Gen10	SGH947TQVK	1	3.10.02.04.001.7961	2019
26	HPE DL380 Gen10	SGH931TLW2	1	3.10.02.04.001.7939	2019
27	HPE DL380 Gen10 8SFF CTO Server	SGH020Y6BP	1	3.10.02.04.002	2019
Huawei					
28	Huawei CH121 V3	210305613210FB000307	1	3.10.02.04.001.7783	2016
29	Huawei CH121 V3	210305613210FB000308	1	3.10.02.04.001.7784	2016
30	Huawei CH121 V3	210305613210FB000309	1	3.10.02.04.001.7785	2016
31	Huawei CH121 V3	210305613210FB000310	1	3.10.02.04.001.778x	2016
32	Huawei CH121 V3	210305756810JB000293	1	3.10.02.04.001.7901	2018

33	Huawei CH121 V3	210305756810JB000294	1	3.10.02.04.001.7903	2018
34	Huawei CH121 V3	210305756810JB000289	1	3.10.02.04.001.7905	2018
35	Huawei CH121 V3	210305756810JB000290	1	3.10.02.04.001.7902	2018
36	Huawei CH121 V3	210305756810JB000292	1	3.10.02.04.001.7904	2018
37	Huawei CH121 V3	210305756810JB000291	1	3.10.02.04.001.7906	2018
38	Huawei CH121 V5	210305769910M5000261	1	3.10.02.04.001.7993	2021
39	Huawei CH121 V5	210305769910M5000265	1	3.10.02.04.001.7993	2021
40	Huawei CH121 V5	210305769910M5000263	1	3.10.02.04.001.7993	2021
41	Huawei CH121 V5	210305769910M5000264	1	3.10.02.04.001.7993	2021
42	Huawei CH121 V5	210305769910M5000260	1	3.10.02.04.001.7993	2021
43	Huawei CH121 V5	210305769910M5000262	1	1. 10.02.04.001.7993	2021
44	Chassis Blade Server E9000	210230102810FB000086	1	~	2016
45	SAN Director OceanStor SNS5192	2102350ARM10FB000006	1	3.10.02.04.001.7786	2016
46	Core Switch CE12808	210235621210FA000031	1	3.06.03.23.015.6624	2016
47	Core Switch CE12808	210235621210FA000032	1	3.06.03.23.015.6625	2016
Fujitsu					
48	PRIMERGY Rack Servers	MASQ010322	1	3.10.02.04.0001.7973	2020
49	PRIMERGY Rack Servers	MASQ010321	1	3.10.02.04.0001.7972	2020
50	PRIMERGY Rack Servers	MASQ020068	1		

51	PRIMERGY Rack Servers	MASQ020067	1	3.10.02.04.0001.8067	2021
52	Tape Systems	113-LT260	1	3.10.02.01.004.74	2020
Veritas					
53	<i>Essential 12 months renewal for netbackup opt shared storage opt xplat 1 drive onpremise standard perpetual license gov</i>		6	3100204001.7972	
54	<i>Essential 12 months renewal for netbackup opt library based tape drive xplat 1 drive onpremise standard perpetual license gov</i>		6		
55	<i>Essential 12 months renewal for netbackup client application and db Pack wls 1 server hardware tier 2 onpremise standard perpetual license gov</i>		2	3100204001.7973	
56	<i>Essential 12 months renewal for netbackup ent clients wls 1 server hardware tier 2</i>		2		

	<i>onpremise standard perpetual license gov</i>				
57	<i>Essential 12 months renewal for netbackup ent server wls 1 server hardware tier 2 onpremise standard perpetual license gov</i>		1	3100204014.20	
Lain-lain					
58	<i>Engineer On Site</i>		4		
59	Transfer Knowledge (35 Peserta)		1		

Catatan: Untuk sebagian kode BMN perangkat server tidak dapat terdokumentasi, disebabkan oleh posisi stiker kode BMN berada di dalam server, dan dibutuhkan shutdown perangkat yang mengakibatkan sistem akan menjadi tidak bisa beroperasi jika ingin melihat nomor BMN.

2. Adapun Annual Technical Support Server dan Storage DRC Batam Tahun 2025 terdiri dari:
 - a. Melakukan assessment terhadap perangkat server dan storage DRC Batam paling lambat 2 (dua) hari kalender setelah ditandatanganinya SPK pada perangkat server dan storage DRC Batam;
 - b. Pelaksana pekerjaan harus mempunyai surat dukungan dari Principal atau pihak yang diberikan authorized oleh Principal yang ditujukan kepada POKJA ketika proses tender dan kepada PPK ketika Kick Off Meeting;

- c. Melakukan identifikasi dan labeling terhadap perangkat server dan storage DRC Batam paling lambat 2 (dua) hari kalender setelah ditandatanganinya SPK dan pada saat ada penambahan perangkat server dan storage baru;
- d. Melakukan koordinasi dengan pihak Direktorat Jenderal Kependudukan dan Pencatatan Sipil dalam hal melakukan pekerjaan yang bersifat krusial di DRC Batam;
- e. Dalam setiap penanganan masalah menginformasikan secara tertulis dan melibatkan tim Kemendagri atau tim dukungan teknis dan tim manage service yang ditunjuk oleh Ditjen Dukcapil sebagai bagian dari implementasi alih pengetahuan dan teknologi;
- f. Menyerahkan lisensi dalam bentuk sertifikat ATS dan lisensi veritas bersamaan dengan ditandatanganinya SPK dengan masa berlaku ATS adalah 1 Januari 2025 sampai 31 Desember 2025 dan dituangkan dalam berita acara;
- g. Menyediakan dukungan teknis baik dalam bentuk regular monitoring, preventive maupun corrective maintenance pada perangkat Server dan Storage DRC Batam;
- h. Melakukan reguler monitoring oleh engineer on-site minimal 4 orang yang akan ditempatkan di DRC Batam dengan kriteria 24 jam x 7 hari secara terjadwal untuk segera dapat menyelesaikan permasalahan perangkat server dan Storage dengan response time maksimum 4 jam;
- i. Melakukan Preventive Maintenance (PM) sebanyak 4 (empat) kali per 3 (tiga) bulan selama masa pekerjaan dan dibuktikan dengan berita acara serta dibuatkan laporan dan dokumentasi dalam bentuk review problem untuk dilaporkan kepada Ditjen Kependudukan dan Pencatatan Sipil untuk mendapatkan arahan lebih lanjut perihal tindakan yang akan dilakukan;
- j. Melakukan Corrective Maintenance (CM) ketika terjadi atau terdapat masalah pada perangkat keras dan perangkat lunak yang ditemukan oleh engineer on site atau yang

dilaporkan oleh Ditjen Kependudukan dan Pencatatan Sipil Kementerian Dalam Negeri dan dibuatkan berita acara mulai dari saat kejadian hingga waktu penyelesaian serta dibuatkan laporan dan dokumentasi dalam bentuk review problem. Untuk penggantian komponen perangkat server dan storage (harddisk dan memori) yang rusak diwajibkan untuk diserahkan kepada Ditjen Kependudukan dan Pencatatan Sipil Kementerian Dalam Negeri;

- k. Melakukan penggantian perangkat rusak maksimal 1x24 jam setelah response time. Dalam penggantian perangkat keras, khusus untuk harddisk dan memori pada perangkat keras yang rusak diwajibkan untuk diserahkan kepada Ditjen Kependudukan dan Pencatatan Sipil Kementerian Dalam Negeri yang dituangkan dalam berita acara;
- l. Melakukan update patch firmware pada perangkat yang dipelihara berdasarkan laporan dari engineer on site;
- m. Memonitoring perangkat keras yang dipelihara secara kondisi dan performance melalui Dashboard Monitoring atau media lain yang bisa digunakan untuk menginformasikan hal tersebut serta dapat terhubung dan dimonitor oleh pihak-pihak yang bertanggung jawab terhadap operasional Data Center dan Disaster Recovery Center;
- n. Memberikan transfer knowledge terkait dengan produk yang dipelihara dan knowledge update untuk produk yang menjadi bagian dalam ATS kepada 35 personil yang ditugaskan oleh Ditjen Dukcapil sekali dalam masa kontrak selama 3 hari kalender;
- o. Memberikan paket pelatihan dan ujian bersertifikasi resmi/nasional atau setifikasi kompetensi yang diterbitkan oleh Principal terkait dengan server dan storage kepada 15 personil yang ditugaskan oleh Ditjen Dukcapil sekali dalam masa kontrak;
- p. Membuat Laporan Pekerjaan dalam bentuk hardcopy dan softcopy (format terlampir) yang harus diserahkan pada setiap termin penagihan terdiri dari:

- 1) Laporan Tahap I terdiri atas 6 (enam) bagian:
 - a) Laporan Pendahuluan : Laporan yang memuat keseluruhan rencana kerja yang akan menjadi acuan pelaksanaan pekerjaan;
 - b) Laporan Bulanan: Laporan yang berisi laporan seluruh pekerjaan yang dilaksanakan setiap bulan;
 - c) Laporan Mingguan: Laporan yang berisi laporan seluruh pekerjaan yang dilaksanakan setiap minggu;
 - d) Laporan Harian: Laporan yang berisi laporan seluruh pekerjaan yang dilaksanakan setiap hari;
 - e) Laporan Preventive Maintenance (PM): Laporan pelaksanaan kegiatan PM yang dilengkapi dengan dokumentasi serta berita acara;
 - f) Laporan Corrective Maintenance (CM): laporan pelaksanaan kegiatan CM yang dilengkapi dengan dokumentasi, berita acara, dan review problem;
- 2) Laporan Tahap II terdiri atas 5 (lima) bagian:
 - a) Laporan Bulanan: Laporan yang berisi laporan seluruh pekerjaan yang dilaksanakan setiap bulan;
 - b) Laporan Mingguan: Laporan yang berisi laporan seluruh pekerjaan yang dilaksanakan setiap minggu;
 - c) Laporan Harian: Laporan yang berisi laporan seluruh pekerjaan yang dilaksanakan setiap hari;
 - d) Laporan Preventive Maintenance (PM): Laporan pelaksanaan kegiatan PM yang dilengkapi dengan dokumentasi serta berita acara;
 - e) Laporan Corrective Maintenance (CM) Laporan pelaksanaan kegiatan CM yang dilengkapi dengan dokumentasi, berita acara, dan review problem.
- 3) Laporan Tahap III terdiri atas 6 (enam) bagian:
 - a) Laporan Bulanan: Laporan yang berisi laporan seluruh pekerjaan yang dilaksanakan setiap bulan;
 - b) Laporan Mingguan: Laporan yang berisi laporan seluruh pekerjaan yang dilaksanakan setiap minggu;
 - c) Laporan Harian: Laporan yang berisi laporan seluruh pekerjaan yang dilaksanakan setiap hari;

- d) Laporan Preventive Maintenance (PM): Laporan pelaksanaan kegiatan PM yang dilengkapi dengan Dokumentasi serta Berita Acara;
 - e) Laporan Corrective Maintenance (CM): Laporan pelaksanaan kegiatan CM yang dilengkapi dengan Dokumentasi, Berita Acara, dan Review Problem;
 - f) Laporan Akhir Pekerjaan berisi Laporan Ringkasan Pelaksanaan Pekerjaan dari Bulan Januari s.d Desember 2025.
3. Dalam melakukan kegiatan ATS Server dan Storage Disaster Recovery Center Batam Batam, berikut Service Level Agreement (SLA) yang menjadi dasar pelaksanaan kegiatan:
- a. Response Time → ATS yang diberikan 24 jam x 7 hari dengan response time maksimum 4 jam;
 - b. Recovery Time → Penggantian perangkat keras yang rusak/penyelesaian masalah maksimal 1x24 jam setelah response time dan dilakukan oleh penyedia.
 - c. EOS (Engineer On Site) → Tidak terpenuhinya jumlah personil sebanyak 4 (empat) orang dan jumlah hari sebanyak 365 hari;
 - d. Transfer Knowledge → Tidak terpenuhinya minimal 3 hari kalender selama sekali dalam masa kontrak.
4. *Rebate* Kegagalan Pemenuhan SLA, Jika Response Time, Recovery Time, Pemenuhan eos dan pelaksanaan transfer knowledge tidak terpenuhi, maka akan dikenakan pemotongan berdasarkan pembobotan sebagai berikut:

No.	Kegiatan	Bobot (%)	Denda (ht)
Hewlett Packard			
1	HPE Synergy12000 CTO Frame	7,8%	$D=(HT/HK)xBxNK$
2	HPE SY 480 Gen10	53,8%	$D=(HT/HK)xBxNK$
3	"HPE DL380 Gen10 8SFF	3,2%	$D=(HT/HK)xBxNK$
Huawei			

4	Huawei CH121 V3	5,2%	D=(HT/HK)xBxNK
5	Chassis Blade Server E9000	1,1%	D=(HT/HK)xBxNK
6	SAN Director OceanStor SNS5192	7,3%	D=(HT/HK)xBxNK
7	Core Switch CE12808	6,7%	D=(HT/HK)xBxNK
8	Huawei CH121 V5	1,7%	D=(HT/HK)xBxNK
Fujitsu			
9	PRIMERGY Rack Servers	7,5%	D=(HT/HK)xBxNK
10	Tape Systems	2,1%	D=(HT/HK)xBxNK
Veritas			
11	Essential 12 months renewal for netbackup opt shared storage opt xplat 1 drive onpremise standard perpetual license gov	0,5%	D=(HT/HK)xBxNK
12	Essential 12 months renewal for netbackup opt library based tape drive xplat 1 drive onpremise standard perpetual license gov	0,7%	D=(HT/HK)xBxNK
13	Essential 12 months renewal for netbackup client application and db Pack wls 1 server hardware tier 2 onpremise standard perpetual license gov	0,1%	D=(HT/HK)xBxNK
14	Essential 12 months renewal for netbackup ent clients wls 1 server hardware tier 2 onpremise standard perpetual license gov	0,2%	D=(HT/HK)xBxNK
15	Essential 12 months renewal for netbackup ent server wls 1 server	0,2%	D=(HT/HK)xBxNK

	hardware tier 2 onpremise standard perpetual license gov		
Lain-lain			
16	<i>Engineer On Site</i>	1,6%	$D=(HT/HK)xBxNK$
17	<i>Transfer Knowledge (35 Orang):</i>	0,3%	$D=(HT/HK)xBxNK$
Total		100%	

Keterangan:

Adapun perhitungan Rebate Kegagalan Pemenuhan SLA dikarenakan atas Recovery Time tidak terpenuhi dengan rumus perhitungan:

$$D = (HT/HK) \times B \times NK$$

D (Denda): Nilai Rebate atas Ruang Lingkup karena kegagalan Pemenuhan SLA;

HT (Hari Terlambat):

- Untuk perangkat: Jumlah kumulatif kelebihan waktu penyelesaian/recovery time atas laporan dengan Waktu Recovery Time > 1 Hari yang dihitung dalam satuan jam yang selanjutnya dikonversi menjadi satuan hari;
- Untuk eos: Jumlah hari sejak tanggal kontrak yang tidak memenuhi jumlah eos.

HK (Hari Kontrak): Jumlah hari kalender periode kontrak, untuk kontrak ini 365 hari;

B (Bobot): Besaran konstanta pembobotan atas masing-masing lingkup pekerjaan untuk perhitungan denda;

NK (Nilai Kontrak): Nilai Kontrak selama masa kontrak atas ruang lingkup yang dikenakan rebate.

Perhitungan rebate untuk eos sebagai berikut:

B (Bobot) Besaran konstanta pembobotan atas masing-masing lingkup pekerjaan untuk perhitungan denda;

NK (Nilai kontrak)

HK (Hari Kontrak): Jumlah hari kalender periode kontrak, untuk kontrak ini 365 hari;

HTP (Hari tidak terpenuhi)

Untuk eos: tidak terpenuhinya jumlah hari terpenuhinya 4 (empat) eos dengan rumus perhitungan:

$$D = (HTP / HK) \times B \times NK$$

Perhitungan rebate untuk transfer knowledge sebagai berikut:

B (Bobot)

HP (Hari pelaksanaan): 3 hari kalender

HTP (Hari tidak terpenuhi)

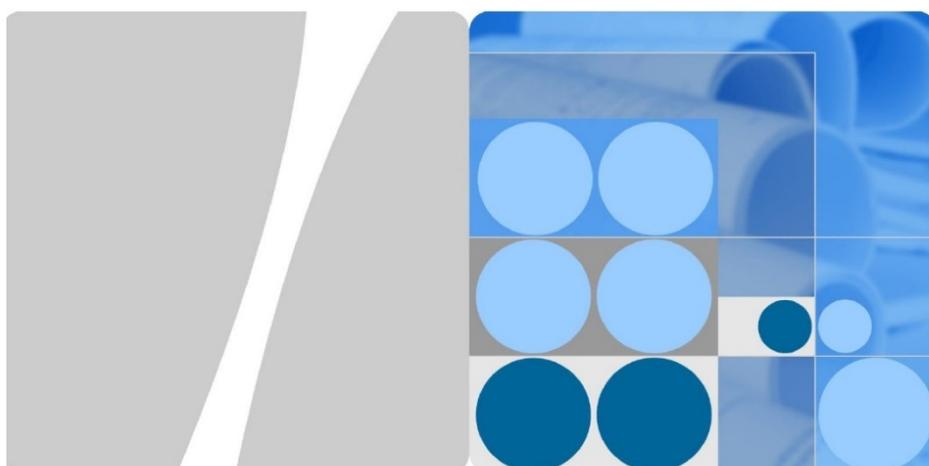
NK (Nilai kontrak)

Untuk transfer knowledge: Tidak terpenuhinya minimal 3 hari kalender selama sekali dalam masa kontrak dengan rumus perhitungan:

$$D = B / HP \times HTP \times NK$$

5. Huawei Preventive Maintenance Report

5.1 Chassis E9000



Indonesia Ministry of Home Affairs
Health Assessment Report

Date 2025-08-23

HUAWEI TECHNOLOGIES CO., LTD.



Overview

2025-08-23

Dear Indonesia Ministry of Home Affair,

Thanks for your constant support. At Huawei, we live to serve our customers, whose needs are the driving force behind Huawei's development. In terms of providing technical support and network assurance, Huawei Technologies Co., Ltd. (Huawei for short) adheres to the customer-centric principle. Specifically, Huawei focuses on customer challenges and requirements, and quickly provides high-quality solutions to create value for customers.

Huawei health check and resource usage assessment is available to comprehensive check for potential security risks across devices to prevent faults and ensure normal network running. This operation has covered Huawei servers devices on 2025-08-07 with your support and cooperation. This report records any problems found during the check and provides analysis and suggestions to help mitigate them. For problems that cannot be solved in a short period of time, Huawei engineers have provided the preliminary result of fault location, and formulated the subsequent problem solving plan. In addition, your comments and suggestions on Huawei will be reported to related departments.

This inspection has been positively supported by you. Thank you for your leaders' and experts' sincere and persistent support.

Best regards,

Huawei Technologies Co., Ltd.

1 Basic Device Information

1.1 Inspection Contents

This inspection aims to check the status and configurations of Huawei servers to discover devices and configurations that do not comply with best practices.

1.1.1 Servers Device Information

Name	SN	IP Address	Model
E9000	210230102810FB0000 86		E9000

2 Health Assessment Summary

2.1 Servers Device Health Assessment Summary

Quantity of Servers devices that have been checked: 1; quantity of devices that are running properly: 1; quantity of devices that have risks: 0.

2.1.1 Summary of Basic Inspection Information

Items - Compliant	Items - Violation	Check Item Compliance Rate
374	0	100%

For details about the problems that are not resolved and corresponding handling suggestions, see [Servers Device Health Check](#) Details.

3 Device Check Details

3.1 Servers Device Health Check

3.1.1 210230102810FB000086

The following table lists basic device information:

Device Name	Device Model	Device SN	Device IP Address
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E9000	E9000	210230102810FB000 086	
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Device Health Check:

Quantity of violation items or items requiring optimization of the device: 0.

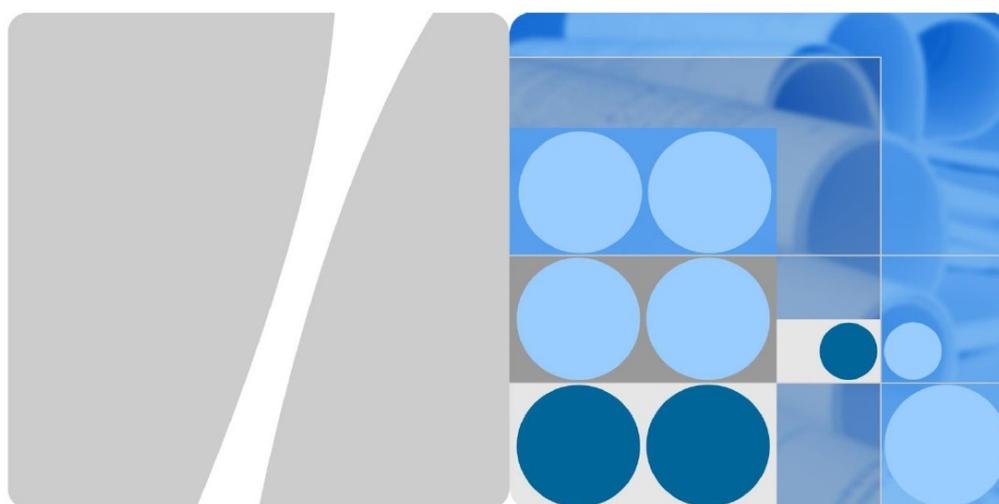
4 Feedback

Thank you for your support. To help us improve our services, please view the report and provide feedback or suggestions. Huawei will use your feedback as motivation to improve and promote a professional, passionate attitude for our high-quality services.

Satisfaction:	Excellent	Good	Poor
Comments:			
	Signature:		
	Date:		

- Perangkat Chassis E9000 **Normal**

5.2 Blade Servers CH121 V3 dan V5



INDONESIA MINISTRY OF HOME AFFAIRS
Health Assessment Report

Date 2025-08-23

HUAWEI TECHNOLOGIES CO., LTD.



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1.1.1 Servers Device Information

Name	SN	IP Address	Model
CH121 V3	210305613210FB000310		CH121 V3
CH121 V3	210305613210F8000049		CH121 V3
CH121 V3	210305613210FB000307		CH121 V3
CH121 V3	210305756810JB000293		CH121 V3
CH121 V3	210305613210FB000309		CH121 V3
CH121 V5	210305769910M5000263		CH121 V5
CH121 V5	210305769910M5000262		CH121 V5
CH121 V5	210305769910M5000265		CH121 V5
CH121 V5	210305769910M5000264		CH121 V5
CH121 V5	210305769910M5000261		CH121 V5
CH121 V5	210305769910M5000260		CH121 V5
CH121 V3	210305756810JB000292		CH121 V3
CH121 V3	210305756810JB000290		CH121 V3
CH121 V3	210305756810JB000289		CH121 V3
CH121 V3	210305756810JB000294		CH121 V3
CH121 V3	210305756810JB000291		CH121 V3

2 Health Assessment Summary

2.1 Servers Device Health Assessment Summary

Quantity of Servers devices that have been checked: 16; quantity of devices that are running properly: 0; quantity of devices that have risks: 0.

2.1.1 Summary of Basic Inspection Information

Total Items	Items - Compliant	Items - Violation	Check Item Compliance Rate
546	546	0	100%

For details about the problems that are not resolved and corresponding handling suggestions, see [Servers Device Health Check](#) Details.

3 Device Check Details

3.1 Servers Device Health Check

3.1.1 210305613210F8000049

The following table lists basic device information:

Device Name	Device Model	Device SN	Device IP Address
CH121 V3	CH121 V3	210305613210F8000049	

Device Health Check:

Quantity of violation items or items requiring optimization of the device: 0.

3.1.2 210305756810JB000290

The following table lists basic device information:

Device Name	Device Model	Device SN	Device IP Address
CH121 V3	CH121 V3	210305756810JB000290	



Device Health Check:

Quantity of violation items or items requiring optimization of the device: 0.

3.1.3 210305756810JB000291

The following table lists basic device information:

Device Name	Device Model	Device SN	Device IP Address
CH121 V3	CH121 V3	210305756810JB000291	

Device Health Check:

Quantity of violation items or items requiring optimization of the device: 0.

3.1.4 210305756810JB000292

The following table lists basic device information:

Device Name	Device Model	Device SN	Device IP Address
CH121 V3	CH121 V3	210305756810JB000292	

Device Health Check:

Quantity of violation items or items requiring optimization of the device: 0.

3.1.5 210305756810JB000293

The following table lists basic device information:

Device Name	Device Model	Device SN	Device IP Address
CH121 V3	CH121 V3	210305756810JB000293	

Device Health Check:

Quantity of violation items or items requiring optimization of the device: 0.

3.1.6 210305756810JB000294

The following table lists basic device information:

Device Name	Device Model	Device SN	Device IP Address
CH121 V3	CH121 V3	210305756810JB000294	

Device Health Check:

Quantity of violation items or items requiring optimization of the device: 0.

3.1.7 210305613210FB000310

The following table lists basic device information:

Device Name	Device Model	Device SN	Device IP Address
CH121 V3	CH121 V3	210305613210FB000310	

Device Health Check:

Quantity of violation items or items requiring optimization of the device: 0.

3.1.8 210305756810JB000289

The following table lists basic device information:

Device Name	Device Model	Device SN	Device IP Address
CH121 V3	CH121 V3	210305756810JB000289	

Device Health Check:

Quantity of violation items or items requiring optimization of the device: 0.



3.1.9 210305769910M5000265

The following table lists basic device information:

Device Name	Device Model	Device SN	Device IP Address
CH121 V5	CH121 V5	210305769910M5000 265	

Device Health Check:

Quantity of violation items or items requiring optimization of the device: 0.

3.1.10 210305769910M5000264

The following table lists basic device information:

Device Name	Device Model	Device SN	Device IP Address
CH121 V5	CH121 V5	210305769910M5000 264	

Device Health Check:

Quantity of violation items or items requiring optimization of the device: 0.

3.1.11 210305769910M5000263

The following table lists basic device information:

Device Name	Device Model	Device SN	Device IP Address
CH121 V5	CH121 V5	210305769910M5000 263	

Device Health Check:

Quantity of violation items or items requiring optimization of the device: 0.

3.1.12 210305769910M5000262

The following table lists basic device information:



Device Name	Device Model	Device SN	Device IP Address
CH121 V5	CH121 V5	210305769910M5000 262	

Device Health Check:

Quantity of violation items or items requiring optimization of the device: 0.

3.1.13 210305769910M5000261

The following table lists basic device information:

Device Name	Device Model	Device SN	Device IP Address
CH121 V5	CH121 V5	210305769910M5000 261	

Device Health Check:

Quantity of violation items or items requiring optimization of the device: 0.

3.1.14 210305769910M5000260

The following table lists basic device information:

Device Name	Device Model	Device SN	Device IP Address
CH121 V5	CH121 V5	210305769910M5000 260	

Device Health Check:

Quantity of violation items or items requiring optimization of the device: 0.

3.1.15 210305613210FB000307

The following table lists basic device information:

Device Name	Device Model	Device SN	Device IP Address
-------------	--------------	-----------	-------------------



CH121 V3	CH121 V3	210305613210FB000 307	
----------	----------	--------------------------	--

Device Health Check:

Quantity of violation items or items requiring optimization of the device: 0.

3.1.16 210305613210FB000309

The following table lists basic device information:

Device Name	Device Model	Device SN	Device IP Address
CH121 V3	CH121 V3	210305613210FB000 309	

Device Health Check:

Quantity of violation items or items requiring optimization of the device: 0.

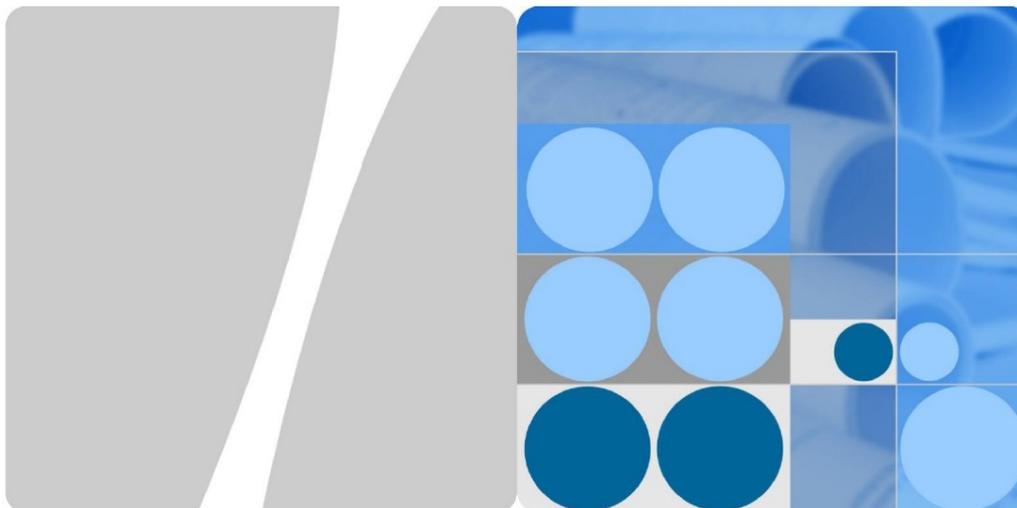
4 Feedback

Thank you for your support. To help us improve our services, please view the report and provide feedback or suggestions. Huawei will use your feedback as motivation to improve and promote a professional, passionate attitude for our high-quality services.

Satisfaction:	Excellent	Good	Poor
Comments:			
	Signature:		
	Date:		

- Perangkat Blades Server CH121 V3 dan V5 **Normal**

5.3 Core Switch CE12808



Huawei Data Communication Network Advanced Inspection Report

Customer Name:

Network Name:

Inspection time: 2025-01-19



Huawei Technologies Co., Ltd.

1 foreword

1.1 Overview

According to the operation and maintenance requirements of _____, Huawei has inspected its network devices. This document provides detailed and summary information about all devices in the inspection, provides suggestions on potential faults and risks of the devices detected during the inspection, and evaluates the overall network health.

This document helps you learn about the health status of network devices in a timely manner, eliminate potential device faults, and provide guidance for technical engineers to reconstruct and optimize the network, improving network availability, and ensuring reliable service running.

1.2 Readers

Network O&M supervisors, technical engineers, system integrator engineers, and Huawei engineers.

1.3 Assessment Methods

Build the inspection and warning risk check system based on four layers and eight dimensions.

Identify hardware problems and known software risks at the NE layer.

Identify link status and reliability issues at the physical network layer and optimize the physical architecture.

The logical network layer assists in sorting out the network protocol architecture, identifying risks and reliability issues at the protocol layer, and combining with expert capabilities.

Service layer identifies risks and security based on service traffic paths on the live network.

1.4 Contact Information

Dear _____,

Thank you for choosing our products and services! In order to improve the availability of the network and ensure the stable operation of the network, we conducted patrol inspection service on your network equipment on _____. We hereby report the service to you as follows and ask you to comment on our work.

Thank you and your team for your cooperation and support during this service.

Inspection owner:

Phone number:

Contact Email:

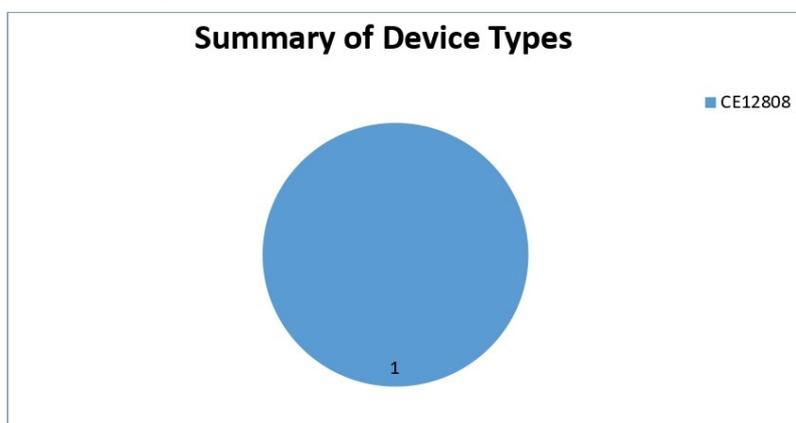
2 Inspection Overview

1 devices were inspected in this inspection. 1 devices were inspected successfully. 25 problems were found. 11 major problems, 6 warning problems, and 8 warning problems. 0 devices with no problems.

2.1 Summary

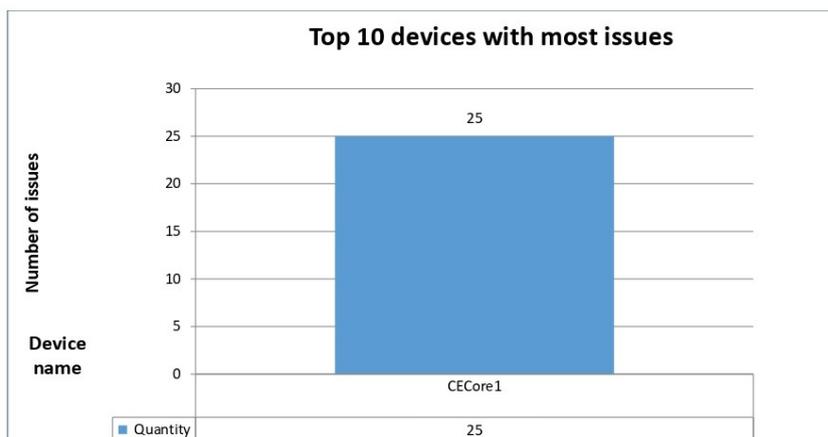
2.1.1 Device Type Summary

The following figure shows the proportion of each type of devices in the inspection.



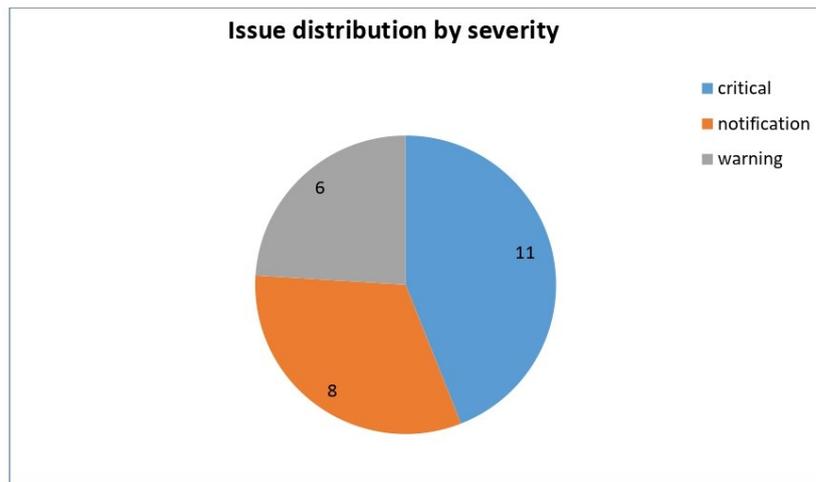
2.1.2 Top 10 devices with problems

The following figure shows the top 10 devices with the number of problems found during the inspection.

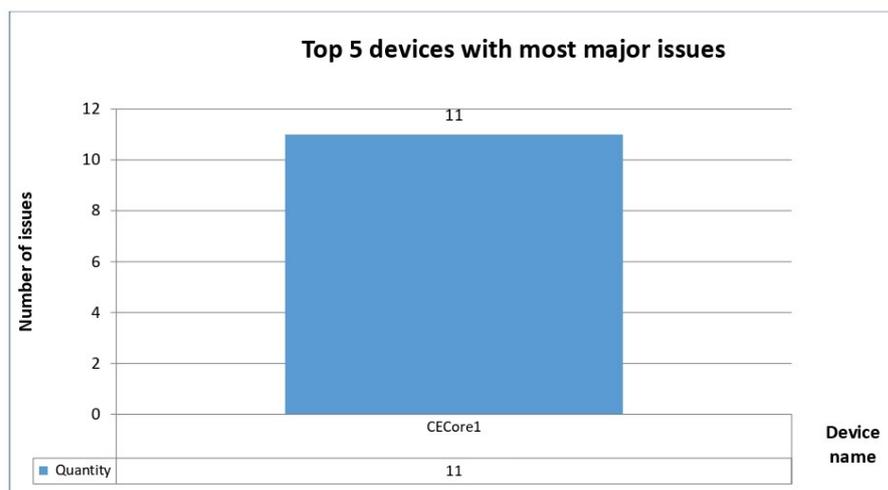


2.1.3 Problem Level Summary

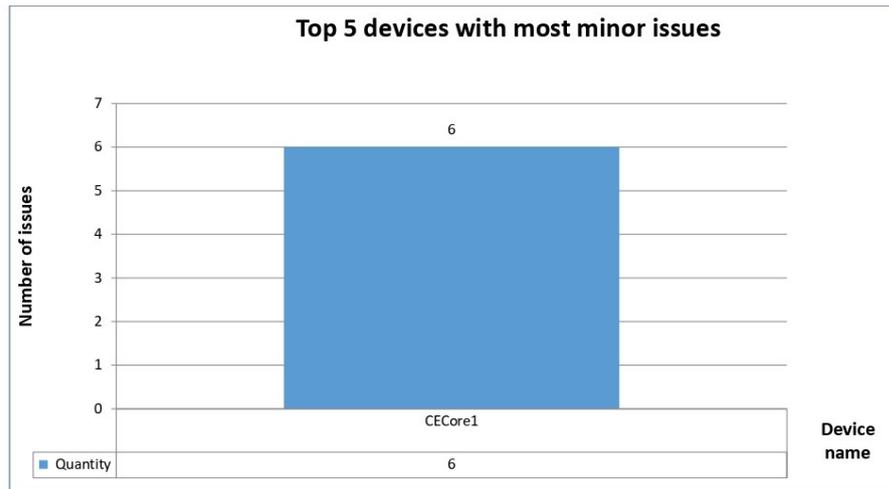
1. The following figure shows the distribution of the problems found in this inspection.



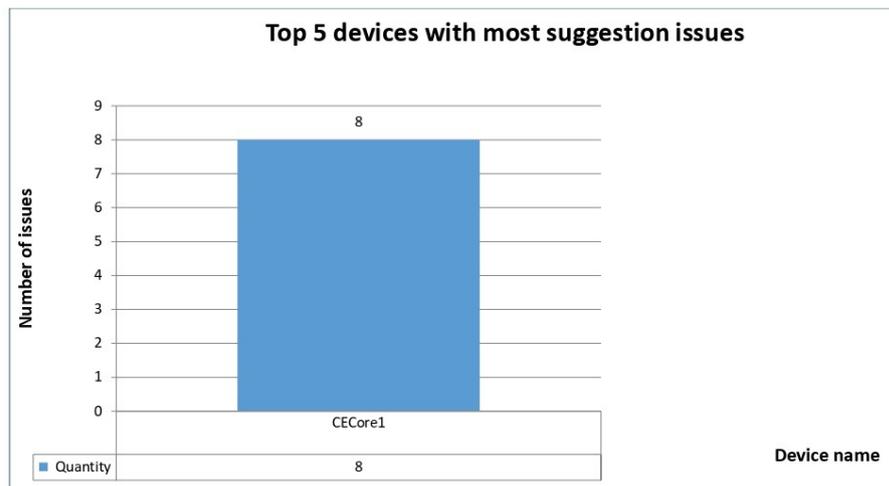
2. The following figure shows the five devices with the largest number of major problems found in this inspection.

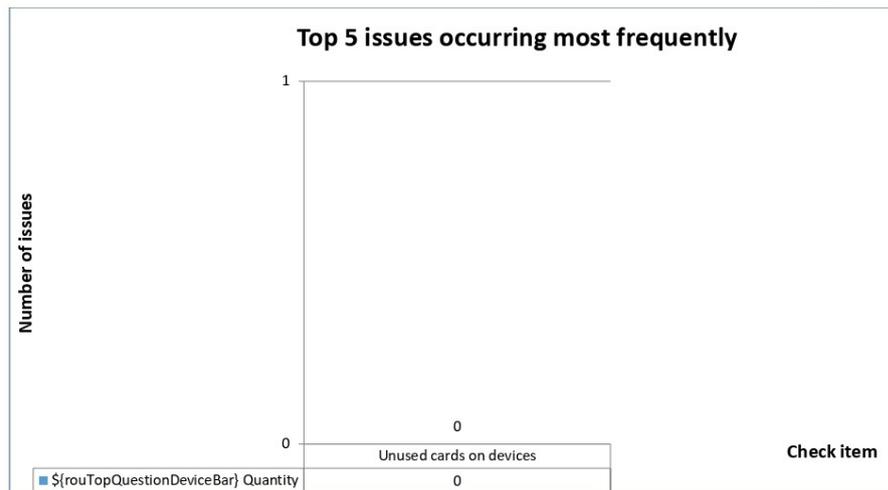
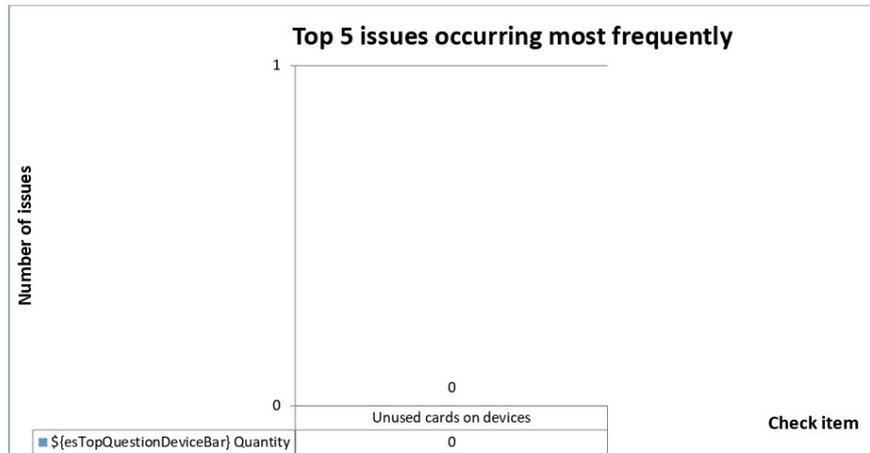


3. The following figure shows the five devices with the largest number of warning problems found in this inspection.



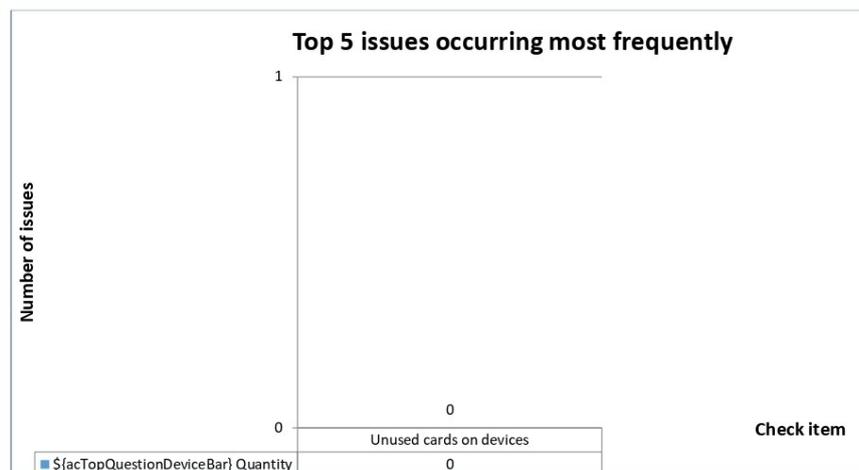
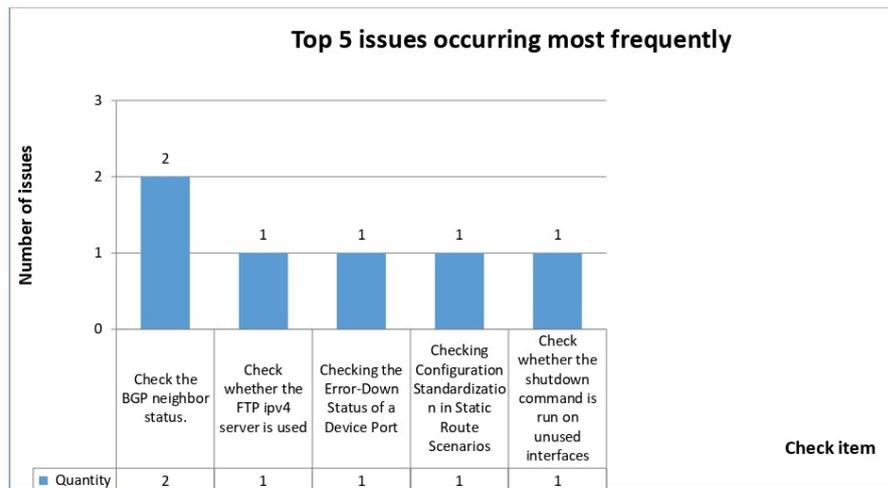
4. The following figure shows the five devices with the most problems found in this inspection.

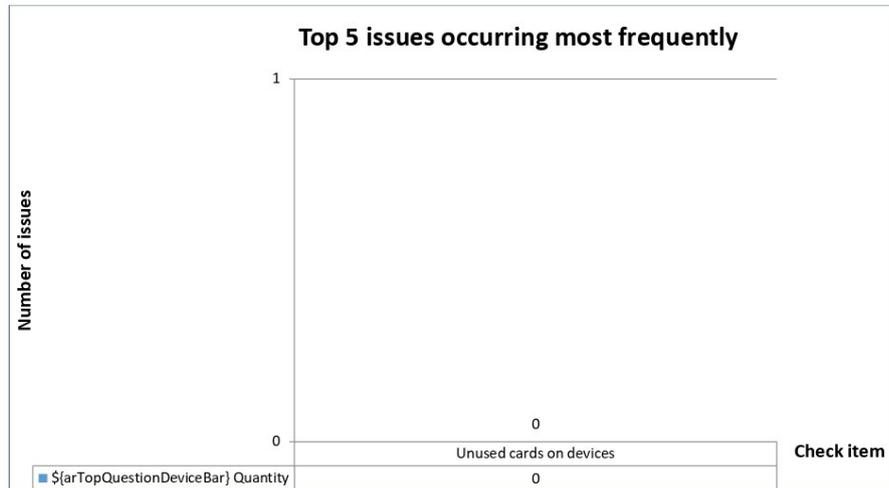




2.1.4 (Optional) Displaying the Frequency of Data Center Switch Device Problems

The following figure shows the five types of problems that frequently occur on data center switches.





2.2 Analysis and Description of Main Problems

This section describes all the critical problems that occur during the inspection and the top three types of warnings and prompts that occur most frequently.

2.2.1 Critical issues

Top 20 Critical Issues (To view all questions, please refer to the following attachment)

checkItem	Number of Issues	IP Address	Device Model
Check the BGP neighbor status.	2		CE12808 CE12808
Check whether the aggregation port works in LACP mode	1		CE12808
Check whether the STP edge port is correct	1		CE12808
Checking the Board Interworking Mode of CE12800	1		CE12808
Check whether the device uses the default VLAN 1	1		CE12808
Risks that may cause the device to restart	1		CE12808
Check whether the optical power of the optical module is normal	1		CE12808
Checking the Error-Down Status of a Device Port	1		CE12808
DCN switch product rectification policy compliance	1		CE12808
Check device alarm information	1		CE12808

2.2.2 Warning Questions

Top2 Minor Issue (To view all questions, please refer to the following attachment)

checkItem	Number of Issues	IP Address	Device Model
Check whether the auto-negotiation rate of the device port is lower than the physical bandwidth of the port	1		CE12808
Checking Whether the SNMP Community Complexity Is Enabled	1		CE12808
Check whether the monitor-link is configured on the device.	1		CE12808
Check the system time.	1		CE12808
Precaution Notice on the Failure to Reset the Master MPUA After the Logical Component of the Master MPU of the CE12800 Fails	1		CE12808
Check whether the secure SNMP version is not used	1		CE12808

2.2.3 Tips

3 Equipment room environment check result

Example: Record the temperature and humidity of the equipment room.

4 Inspection Conclusion

You can fill in the inspection conclusion by referring to the following template:

After the check, we believe that customer A's network equipment is running normally and there is no major hardware risk. However, we need to pay attention to the standardization of service configuration.

*Network health status index: *****

During this advanced inspection, we received strong support and cooperation from engineers of customer A. The cooperation was sincere and effective. We hope that our services will improve the quality and quantity of customer A's informatization construction. We also hope that customer A will continue to support Huawei's products and services.

O&M Suggestions

4.1 Your comments on the inspection

	Customer stamp:

	Date:
--	-------

5 Attachment

5.1 [Asset Profile Report Link](#)

5.2 [Device EoX Report Link](#)

5.3 [Device Version Report Link](#)

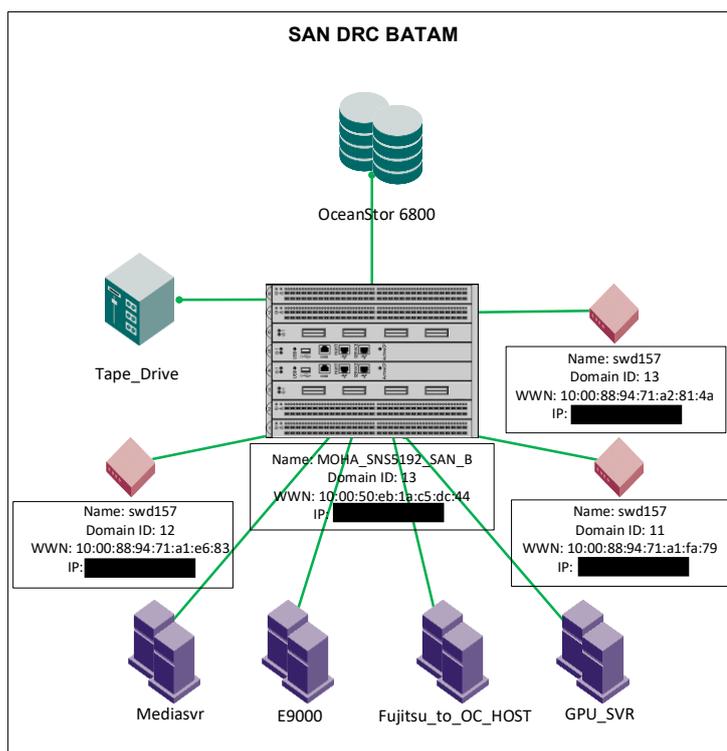
5.4 [Issue Summary Report Link](#)

- Perangkat Core Switch CE12808 **Normal**

5.4 SAN Director OceanStor SNS5192

- **Fabric Kemendagri DRC Batam**

Gambar berikut ini menampilkan topologi dan detail perangkat yang terkoneksi SAN fabric DRC Batam.



- **Status Health**

Berikut Kondisi Status Health:

SWITCH COMPONENTS						
Switch Name	Component	Location	Status	Serial Number	Part Number	
MOHA_SNS5192_SAN_B	FC16-48	Slot 1	ENABLED	BQB0448K10D	60-1001945-16	
MOHA_SNS5192_SAN_B	FC16-48	Slot 2	ENABLED	BQB0447K01V	60-1001945-16	
MOHA_SNS5192_SAN_B	CP8 Control Processor Blade	Slot 4	ENABLED	CBG0437L05W	60-1000376-12	
MOHA_SNS5192_SAN_B	CP8 Control Processor Blade	Slot 5	ENABLED	CBG0437L02C	60-1000376-12	
MOHA_SNS5192_SAN_B	CR16-4	Slot 3	ENABLED	BQD0437L024	60-1003056-01	
MOHA_SNS5192_SAN_B	CR16-4	Slot 6	ENABLED	BQD0437L008	60-1003056-01	
MOHA_SNS5192_SAN_B	FC16-48	Slot 7	ENABLED	BQB0448K079	60-1001945-16	
MOHA_SNS5192_SAN_B	Power Supply Version: 2	PS 1	OK	AGC2M32LE4H	23-0000067-02	
MOHA_SNS5192_SAN_B	Power Supply Version: 2	PS 2	OK	AGC2M22LC3S	23-0000067-02	
MOHA_SNS5192_SAN_B	Fan Version: 2	Fan 1	OK	AGB3023L0CE	60-1000384-12	
MOHA_SNS5192_SAN_B	Fan Version: 2	Fan 2	Ok	AGB3023L0CG	60-1000384-12	
MOHA_SNS5192_SAN_B	WWN Unit	Unit 1		ANN2542LOMN	60-1000888-05	
MOHA_SNS5192_SAN_B	WWN Unit	Unit 2		ANQ3023L0EB	60-1000888-05	

- ✓ OceanStor SNS5192 di DRC Batam dalam keadaan baik (healthy)

- **Status Switch**

MOHA_SNS5192_SAN_B

```
Switch Health Report
Switch Name: MOHA_SNS5192_SAN_B
IP address: ██████████
SwitchState:HEALTHY
Duration:11609:42
```

```
Power supplies monitorHEALTHY
Temperatures monitor HEALTHY
Fans monitor HEALTHY
WWN servers monitor HEALTHY
CP monitor HEALTHY
Blades monitor HEALTHY
Core Blades monitorHEALTHY
Flash monitor HEALTHY
Marginal ports monitorHEALTHY
Faulty ports monitor HEALTHY
Missing SFPs monitor HEALTHY
Error ports monitor HEALTHY
Fabric Watch is not licensed
Detailed port information is not included
```

- ✓ Status OceanStor SNS5192 DRC Batam dalam kondisi baik, tidak perlu tindakan.

- **Status Fan**

MOHA_SNS5192_SAN_B

```
Fan 1 is Ok, speed is 1500 RPM
Fan 2 is Ok, speed is 1518 RPM
```

- ✓ Status Fan OceanStor SNS5192 DRC Batam dalam kondisi baik, tidak perlu tindakan.

- **Status Power Supply**

MOHA_SNS5192_SAN_B

```
Power Supply #1 is OK
V10L32, AGC2M32LE4H ,23-0000067-02, A, DELTA, ECD14020006
,07,AGC2M32L
Power Supply #2 is OK
V10L22, AGC2M22LC3S ,23-0000067-02, A, DELTA, ECD14020006
,07,AGC2M22L
```

- ✓ Status Power Supply OceanStor SNS5192 DRC Batam dalam kondisi baik, tidak perlu tindakan.

- *Status Temperature*
MOHA_SNS5192_SAN_B

Sensor ID	Slot	State	Centigrade	Fahrenheit
1	1	Ok	37	98
2	1	Ok	31	87
3	1	Ok	41	105
4	1	Ok	30	86
5	1	Ok	40	104
6	2	Ok	36	96
7	2	Ok	32	89
8	2	Ok	41	105
9	2	Ok	31	87
10	2	Ok	40	104
11	4	Ok	28	82
12	4	Ok	36	96
13	4	Ok	35	95
14	4	Ok	37	98
15	5	Ok	29	84
16	5	Ok	36	96
17	5	Ok	34	93
18	5	Ok	38	100
19	3	Ok	45	113
20	3	Ok	37	98
21	3	Ok	32	89
22	6	Ok	44	111
23	6	Ok	37	98
24	6	Ok	33	91
25	7	Ok	37	98
26	7	Ok	33	91
27	7	Ok	43	109
28	7	Ok	31	87
29	7	Ok	42	107
30	8	Absent		

- ✓ Status Temperatur OceanStor SNS5192 DRC Batam dalam kondisi baik, tidak perlu tindakan.

- **Status Sensor**
MOHA_SNS5192_SAN_B

Status Sensor OceanStor SNS5192 DRC Batam dalam kondisi baik.

```
sensor 1: (Temperature) is Ok, value is 36 C
sensor 2: (Temperature) is Ok, value is 30 C
sensor 3: (Temperature) is Ok, value is 39 C
sensor 4: (Temperature) is Ok, value is 29 C
sensor 5: (Temperature) is Ok, value is 38 C
sensor 6: (Temperature) is Ok, value is 35 C
sensor 7: (Temperature) is Ok, value is 31 C
sensor 8: (Temperature) is Ok, value is 40 C
sensor 9: (Temperature) is Ok, value is 30 C
sensor 10: (Temperature) is Ok, value is 39 C
sensor 11: (Temperature) is Ok, value is 27 C
sensor 12: (Temperature) is Ok, value is 35 C
sensor 13: (Temperature) is Ok, value is 34 C
sensor 14: (Temperature) is Ok, value is 36 C
sensor 15: (Temperature) is Ok, value is 28 C
sensor 16: (Temperature) is Ok, value is 35 C
sensor 17: (Temperature) is Ok, value is 33 C
sensor 18: (Temperature) is Ok, value is 37 C
sensor 19: (Temperature) is Ok, value is 44 C
sensor 20: (Temperature) is Ok, value is 36 C
sensor 21: (Temperature) is Ok, value is 31 C
sensor 22: (Temperature) is Ok, value is 43 C
sensor 23: (Temperature) is Ok, value is 36 C
sensor 24: (Temperature) is Ok, value is 32 C
sensor 25: (Temperature) is Ok, value is 36 C
sensor 26: (Temperature) is Ok, value is 32 C
sensor 27: (Temperature) is Ok, value is 42 C
sensor 28: (Temperature) is Ok, value is 30 C
sensor 29: (Temperature) is Ok, value is 41 C
sensor 30: (Temperature) is Absent
sensor 31: (Fan ) is Ok,speed is 1500 RPM
sensor 32: (Fan ) is Ok,speed is 1500 RPM
sensor 33: (Power Supply) is Ok
sensor 34: (Power Supply) is Ok
```

- **High Availability Status**
MOHA_SNS5192_SAN_B

```
Local CP (Slot 5, CP1): Active, Cold Recovered
Remote CP (Slot 4, CP0): Standby, Healthy
HA enabled, Heartbeat Up, HA State synchronized
```

- ✓ Status HA OceanStor SNS5192 DRC Batam tersinkronisasi, tidak perlu tindakan.

- **Slot Status**
MOHA_SNS5192_SAN_B

Slot	Blade Type	ID	Status
1	SW BLADE	96	ENABLED
2	SW BLADE	96	ENABLED
3	CORE BLADE	99	ENABLED
4	CP BLADE	50	ENABLED
5	CP BLADE	50	ENABLED
6	CORE BLADE	99	ENABLED
7	SW BLADE	96	ENABLED
8	UNKNOWN		VACANT

- ✓ Status Slot OceanStor SNS5192 DRC Batam Enabled dan dalam kondisi baik, tidak perlu tindakan.

- **Fabric Zoning**

Tabel di bawah ini memberikan ringkasan *zoning metrics* pada SAN fabric DRC Batam.

ZONING METRICS													
Fabric Name	Zone	Aliases Statistics				Zone Statistics				Config Statistics			
		Database Use	Aliases	Avg Mem	Max Mem	Hang Mem	Zones	Avg Mem	Max Mem	Hang Mem	Configs	Avg Mem	Max Mem
SAN DUKCAPIL	0.8% of 2092741B	72	107	4	14	88	5.26	10	69	1	87	87	36

- ✓ Terdapat sisa memori database yang cukup banyak untuk konfigurasi zoning. *Database zoning* yang sudah terpakai rata-rata baru sekitar 0,8 persen.

- **Error Log**

- ✓ Tidak terdapat *error messages* pada OceanStor SNS5192 DRC Batam.
- ✓ Tidak terdapat port dengan “*Encoding Error Outside of Frame*” yang tinggi pada OceanStor SNS5192 DRC Batam.

“*Encoding Error Outside of Frame*” terjadi setiap user menghidup dan mematikan port (reboot host, power-cycle storage subsystem, unplug/plug cable, atau portdisable/portenable dsb.).

6. HPE Preventive Maintenance Report



**Preventive Maintenance Report 2
2025**
for
Ministry of Home Affairs Indonesia

Important confidentiality notice

This report is intended only for the use of the individual or entity to which it is addressed and may contain data that is privileged, confidential, and exempt from disclosure under applicable law. If you are not the intended recipient, you are hereby notified that any use, dissemination, distribution, or copying of this plan is strictly prohibited.
This report contains proprietary information. This plan is for Hewlett Packard Enterprise and internal customer use only.

A. Document Overview

This document describes preventive maintenance report 2 (PM 2) for HPE server and storage systems at Indonesia Ministry of Home Affairs.

A.1 Preventive Maintenance Description

Preventive maintenance is a schedule of planned maintenance actions aimed at the prevention of breakdowns and failures. The primary goal of preventive maintenance is to prevent the failure of equipment before it actually occurs. It is designed to preserve and enhance equipment reliability by replacing worn components before they actually fail. Preventive maintenance activities include equipment checks, partial or complete overhauls at specified periods, and so on. In addition, workers can record equipment deterioration so they know to replace or repair worn parts before they cause system failure. Recent technological advances in tools for inspection and diagnosis have enabled even more accurate and effective equipment maintenance. The ideal preventive maintenance program would prevent all equipment failure before it occurs.

A.2 Customer's Impacts

Preventive maintenance will result in savings due to an increase of effective system service life. Long-term benefits of preventive maintenance include:

- Decreased cost of replacement.
- Decreased system downtime.
- Better spares inventory management.

A.3 Location & Schedule

- Location : DC Gedung Teknologi IT Center BP Batam, Jalan Engku Putri Utara, Teluk Tering, Batam, Kepulauan Riau, 29444.
- Schedule : 6th – 7th August 2025.

B. Preventive Maintenance Report

B.1 Hardware List

Table I. Hardware List

No.	Product Number	Description	Serial Number
1	871940-B21	HPE SY 480 Gen10 CTO Cmpt Mdl	SGH929S333
2	871940-B21	HPE SY 480 Gen10 CTO Cmpt Mdl	SGH929S335
3	871940-B21	HPE SY 480 Gen10 CTO Cmpt Mdl	SGH929S337
4	871940-B21	HPE SY 480 Gen10 CTO Cmpt Mdl	SGH929S339
5	871940-B21	HPE SY 480 Gen10 CTO Cmpt Mdl	SGH929S33C
6	871940-B21	HPE SY 480 Gen10 CTO Cmpt Mdl	SGH929S33F
7	797740-B21	HPE Synergy12000 CTO Frame 1xFLM 10x Fan	SGH929YY0M
8	868703-B21	HPE DL380 Gen10 8SFF CTO Server	SGH931TLW2
9	871940-B21	HPE SY 480 Gen10 CTO Cmpt Mdl	SGH947TQVZ
10	871940-B21	HPE SY 480 Gen10 CTO Cmpt Mdl	SGH947TQVY
11	871940-B21	HPE SY 480 Gen10 CTO Cmpt Mdl	SGH947TQVX
12	871940-B21	HPE SY 480 Gen10 CTO Cmpt Mdl	SGH947TQVW
13	871940-B21	HPE SY 480 Gen10 CTO Cmpt Mdl	SGH947TQVV
14	871940-B21	HPE SY 480 Gen10 CTO Cmpt Mdl	SGH947TQVT
15	871940-B21	HPE SY 480 Gen10 CTO Cmpt Mdl	SGH947TQVS
16	871940-B21	HPE SY 480 Gen10 CTO Cmpt Mdl	SGH947TQVR
17	871940-B21	HPE SY 480 Gen10 CTO Cmpt Mdl	SGH947TQVQ
18	871940-B21	HPE SY 480 Gen10 CTO Cmpt Mdl	SGH947TQVP
19	871940-B21	HPE SY 480 Gen10 CTO Cmpt Mdl	SGH947TQVN
20	871940-B21	HPE SY 480 Gen10 CTO Cmpt Mdl	SGH947TQVM
21	871940-B21	HPE SY 480 Gen10 CTO Cmpt Mdl	SGH947TQVL
22	871940-B21	HPE SY 480 Gen10 CTO Cmpt Mdl	SGH947TQVK
23	871940-B21	HPE SY 480 Gen10 CTO Cmpt Mdl	SGH947TQVJ
24	871940-B21	HPE SY 480 Gen10 CTO Cmpt Mdl	SGH947TQVH
25	871940-B21	HPE SY 480 Gen10 CTO Cmpt Mdl	SGH947TQVG
26	797740-B21	HPE Synergy12000 CTO Frame 1xFLM 10x Fan	SGH947TK8R
27	868703-B21	HPE DL380 Gen10 8SFF CTO Server	SGH020Y6BP

B.2 Preventive Maintenance Results

Table III. Proliant Servers PM Result

No.	Device Type	Serial Number	iLO / OA IP	Status
1	HPE SY 480 Gen10 CTO Cmpt Mdl	SGH929S333		OK
2	HPE SY 480 Gen10 CTO Cmpt Mdl	SGH929S335		OK
3	HPE SY 480 Gen10 CTO Cmpt Mdl	SGH929S337		OK
4	HPE SY 480 Gen10 CTO Cmpt Mdl	SGH929S339		OK
5	HPE SY 480 Gen10 CTO Cmpt Mdl	SGH929S33C		OK
6	HPE SY 480 Gen10 CTO Cmpt Mdl	SGH929S33F		OK
7	HPE Synergy12000 CTO Frame 1xFLM 10x Fan	SGH929YY0M		OK
8	HPE DL380 Gen10 8SFF CTO Server	SGH931TLW2		OK
9	HPE SY 480 Gen10 CTO Cmpt Mdl	SGH947TQVZ		OK
10	HPE SY 480 Gen10 CTO Cmpt Mdl	SGH947TQVY		OK
11	HPE SY 480 Gen10 CTO Cmpt Mdl	SGH947TQVX		OK
12	HPE SY 480 Gen10 CTO Cmpt Mdl	SGH947TQVW		OK
13	HPE SY 480 Gen10 CTO Cmpt Mdl	SGH947TQVV		OK
14	HPE SY 480 Gen10 CTO Cmpt Mdl	SGH947TQVT		OK
15	HPE SY 480 Gen10 CTO Cmpt Mdl	SGH947TQVS		OK
16	HPE SY 480 Gen10 CTO Cmpt Mdl	SGH947TQVR		OK
17	HPE SY 480 Gen10 CTO Cmpt Mdl	SGH947TQVQ		OK
18	HPE SY 480 Gen10 CTO Cmpt Mdl	SGH947TQVP		OK
19	HPE SY 480 Gen10 CTO Cmpt Mdl	SGH947TQVN		OK
20	HPE SY 480 Gen10 CTO Cmpt Mdl	SGH947TQVM		OK
21	HPE SY 480 Gen10 CTO Cmpt Mdl	SGH947TQVL		OK
22	HPE SY 480 Gen10 CTO Cmpt Mdl	SGH947TQVK		OK
23	HPE SY 480 Gen10 CTO Cmpt Mdl	SGH947TQVJ		OK
24	HPE SY 480 Gen10 CTO Cmpt Mdl	SGH947TQVH		OK
25	HPE SY 480 Gen10 CTO Cmpt Mdl	SGH947TQVG		OK
26	HPE Synergy12000 CTO Frame 1xFLM 10x Fan	SGH947TK8R		OK
27	HPE DL380 Gen10 8SFF CTO Server	SGH020Y6BP		OK

C. Summary

All status OK, no hardware error found, and system ran normally.

D. Suggestions

- It is important to update the firmware as part of regular server maintenance. In addition, checking for specific firmware updates in between regular updates helps to keep the server performs optimally. Firmware updates are created for, but are not limited to, the following reasons:
 - To provide critical problem fixes that ensure system stability, such as upgrades that may prevent server from unresponsiveness and other issues that could put the system at risk.
 - To correct product issues, such as ROM or processor functionality.Implementation of the firmware upgrade as proactive maintenance is customer/partner responsibility; however, additional assistance can be purchased from HPE to implement the recommendations.

E. Cases Report

No case was created between 1st April – 30th June 2025.

** generated based on cases created date between 1st April – 30th June 2025*

- **Perangkat HPE Synergy12000 CTO Frame Normal**
- **Perangkat HPE SY 480 Gen10 Normal**
- **Perangkat HPE DL380 Gen10 8SFF CTO Server Normal**

7. Fujitsu Preventive Maintenance Report

Health Check and Preventive Maintenance Report

Consolidated Maintenance Support Service
for Fujitsu Hardware

KEMENTERIAN DALAM NEGERI
REPUBLIK INDONESIA - BATAM

Period: August 2025
Released Date: August 28, 2025



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1. Introduction

As a part of maintenance service to KEMENTERIAN DALAM NEGERI REPUBLIK INDONESIA - BATAM, Fujitsu arranged Maintenance Visits during 1 years the period of maintenance. Our activities are preventive maintenance and incidental maintenance on our server. Preventive maintenance consists of physical check of server and server health analysis. Incidental maintenance consists of troubleshooting on our server.

Scope of preventive maintenance:

- Checking hardware status of server (Preventive Maintenance).
- Change parts (hardware) of server as hardware failure are handled directly by Fujitsu support team.
- Troubleshoot hardware failure all server Fujitsu in maintenance contract

Included on incidental maintenance:

- Broken part replacement on Fujitsu server handled directly by Fujitsu support team.
- Troubleshooting on all Fujitsu servers.

For Technical Support Services request, please reach Fujitsu Indonesia contact center:

Tel: +62 21 572 3454 / +62 21 572 3455

Hotline: 0-800-1-Fujitsu (0-800-1-3854878)

E-mail: callcenter.fid@fujitsu.com

Portal: <http://find-service.co.id>

Our Service Desk will answer your technical questions and service inquiries.

Please have the following information ready (as far as they apply) when you contact us:

- Product ID or serial number of your device
- Operating system on the device
- Description of failure
- Changes of Hardware or Software configuration before malfunction of the system
- Collect log iRMC or PrimeCollect for server, log from web management for Eternus product

2. Overall Report

2.1 Status Server

No	Machine type	SN	Location	IP Management	Status
1	PRIMERGY RX2540 M5	MASQ010321	Batam		<i>Normal</i>
2	PRIMERGY RX2540 M5	MASQ010322	Batam		<i>Normal</i>
3	PRIMERGY RX2540 M5	MASQ020068	Batam		<i>Normal</i>
4	PRIMERGY RX2540 M5	MASQ020067	Batam		<i>Normal</i>
5	Tape Systems Eternus LT260	113-LT260	Batam		<i>Normal</i>

2.2 Issue

No	Issue	Remarks	Status
-	-	-	-

2.3 Recommendation

- iRMC Firmware

No	Machine type	SN	iRMC Current	iRMC Latest	Status
1	PRIMERGY RX2540 M5	MASQ010321	03.06P_sdr03.60 (01/04/2021)	03.61P_sdr03.69 (28/03/2025)	<i>Update Available</i>
2	PRIMERGY RX2540 M5	MASQ010322	03.06P_sdr03.60 (01/04/2021)	03.61P_sdr03.69 (28/03/2025)	<i>Update Available</i>
3	PRIMERGY RX2540 M5	MASQ020068	03.06P_sdr03.60 (01/04/2021)	03.61P_sdr03.69 (28/03/2025)	<i>Update Available</i>
4	PRIMERGY RX2540 M5	MASQ020067	03.06P_sdr03.60 (01/04/2021)	03.61P_sdr03.69 (28/03/2025)	<i>Update Available</i>
5	Tape Systems Eternus LT260	113-LT260	07.90 (26/03/2020)	08.30 (07/04/2025)	<i>Update Available</i>

- BIOS Firmware

No	Machine type	SN	iRMC Current	iRMC Latest	Status
1	PRIMERGY RX2540 M5	MASQ010321	V5.0.0.14 - R1.19.0 (03/04/2020)	V5.0.0.14 - R1.43.0 (01/08/2025)	Update Available
2	PRIMERGY RX2540 M5	MASQ010322	V5.0.0.14 - R1.19.0 (03/04/2020)	V5.0.0.14 - R1.43.0 (01/08/2025)	Update Available
3	PRIMERGY RX2540 M5	MASQ020068	V5.0.0.14 - R1.26.0 (02/12/2020)	V5.0.0.14 - R1.43.0 (01/08/2025)	Update Available
4	PRIMERGY RX2540 M5	MASQ020067	V5.0.0.14 - R1.26.0 (02/12/2020)	V5.0.0.14 - R1.43.0 (01/08/2025)	Update Available

Overall, the server condition is normal (the server is running normally, the OS is running normally) and there are no indications of hardware failure during preventive maintenance.

For prevention and device stability, it is recommended to always update the iRMC firmware and BIOS regularly to the latest version.

***Update Firmware iRMC no need downtime.*

***Update Firmware BIOS needs downtime around 60 mins.*

3. Outstanding Issue and Follow Up

3.1 Open Case for Hardware

No	Ticket Number	Date	Issue	Action	Status
1	No ticket	-	-	-	-

3.2 Open Case Other

No	Ticket Number	Date	Issue	Action	Status
1	No ticket	-	-	-	-

3.3 Other

No	Ticket Number	Date	Issue	Action	Status
1	No ticket	-	-	-	-

4. Hardware Status Reference Appendix

4.1 Data Center - BATAM

4.1.1 PRIMERGY RX2540 M5 - MASQ010321

Server Status



IP iRMC:
Overall Status: Normal

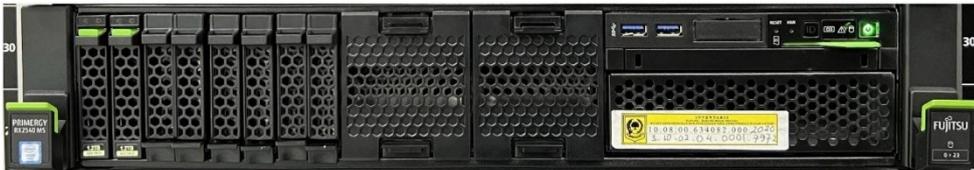
iRMC	BIOS
03.06P_sdr03.60	V5.0.0.14 - R1.19.0

Hardware Technical details

No	Part Detail	Status
1	Processor	Normal
2	Memory	Normal
3	Storage Drive	Normal
4	Network	Normal
5	PCI Device	Normal
6	FAN System	Normal
7	PSU	Normal
8	Temperature Sensor	Normal
9	Voltage	Normal

Event Log

Date	Detail	Severity
No Critical Log		





iRMC S5 Web Server

System Board | Power | Cooling | Mass Storage | Software | Network | AIS Connect

Overview

System Information

- Model Name: PRIMERGY RX2540 M5
- Chassis Type: RX2540MSR4
- Serial Number: MASD010221
- Part Number: S2581-K1655-V1xx
- Asset Tag: System Asset Tag
- System GUID: SBFFC36-70C3-1413-A1D2-4C32624B4DC0
- BIOS Version: V5.0.0.14 R1.19.0 for D3384 81x

Operating System (OS) Information

- Host Name: dcmaster-vertice-ektp.net
- Host IP Address(es):
- System Description: Server
- System Location: Unknown (eds-jetico/ommp/ommpd.conf)
- System Contact: root@localhost
- OS Name: Red Hat Enterprise Linux Server 7.6
- OS Version: 7.6
- OS Up Time: 2 years 7 months 7 days 3 hours 48 minutes
- Management Software: ServerView Agents V9.20-08

System Board Information

Power Status Summary

- Power Status: Powered on
- Power On Counter: 4 years 11 months 6 days 16 hours 5 minutes
- Last Power On Reason: Reboot after warm start
- Last Power Off Reason: Software or command

Running iRMC Firmware

Firmware Image	Status	Firmware Version	Booter Version	SDRR Version	SDRR ID	Firmware Date	Description
Low Firmware image	Active	3.06P	1.66	3.60	6566	Wed Mar 31 2021 18:20:29 GMT+0900	PRODUCTION RELEASE
High Firmware image	Inactive	3.06P	1.66	3.60	6566	Wed Mar 31 2021 18:20:29 GMT+0900	PRODUCTION RELEASE

Next Boot Image: Firmware image with highest firmware version [Reboot iRMC](#)

Active Sessions Information

- Installed License Keys

Model Name: PRIMERGY RX2540 M5
Host Name: dcmaster-vertice-ektp.net
System Asset Tag
Time: Thu, Aug 28, 2025 1:56 AM



4.1.2 PRIMERGY RX2540 M5 - MASQ010322

Server Status



IP iRMC:
Overall Status: Normal

IRMC	BIOS
03.06P_sdr03.60	V5.0.0.14 - R1.19.0

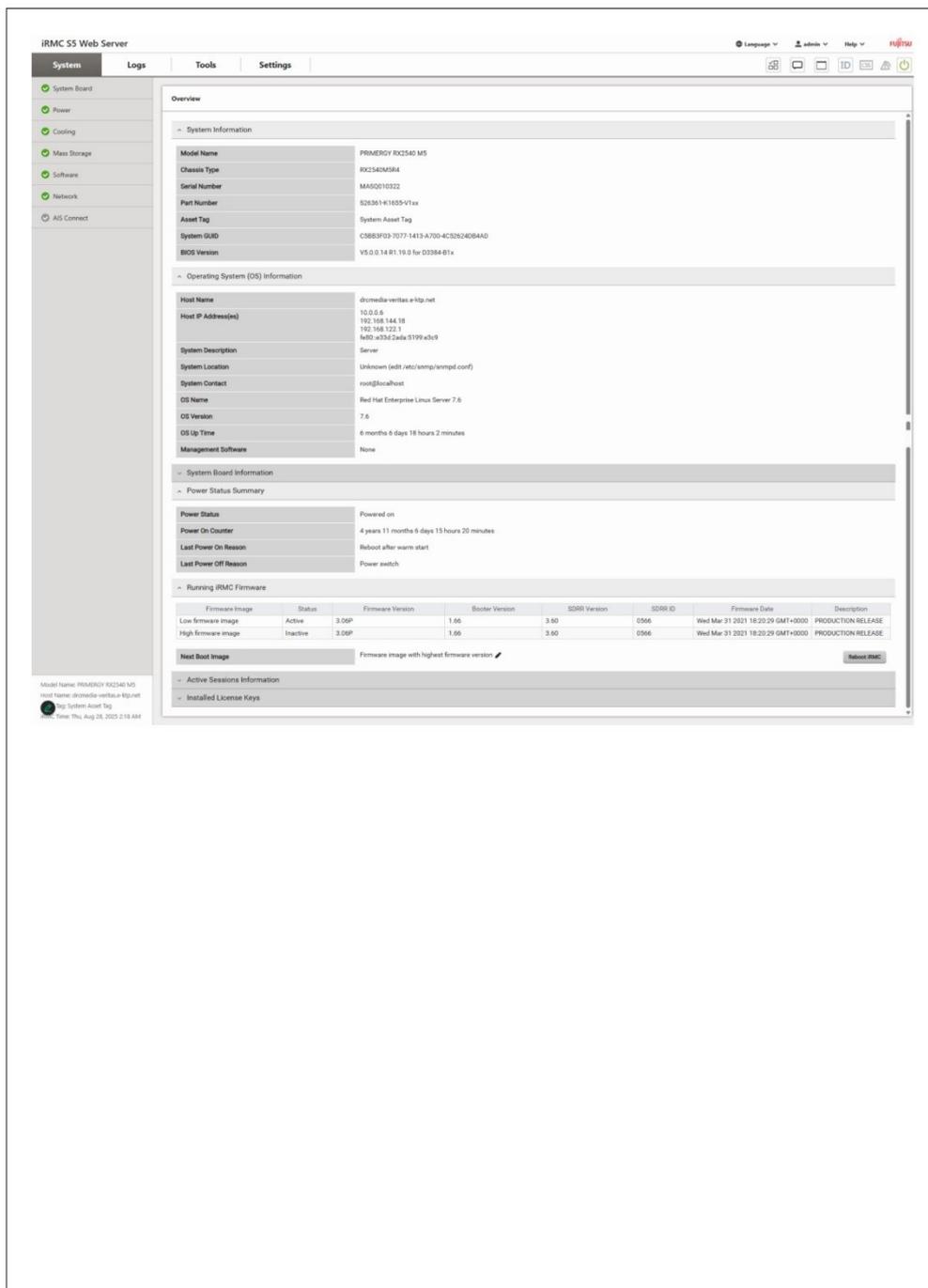
Hardware Technical details

No	Part Detail	Status
1	Processor	Normal
2	Memory	Normal
3	Storage Drive	Normal
4	Network	Normal
5	PCI Device	Normal
6	FAN System	Normal
7	PSU	Normal
8	Temperature Sensor	Normal
9	Voltage	Normal

Event Log

Date	Detail	Severity
No Critical Log		





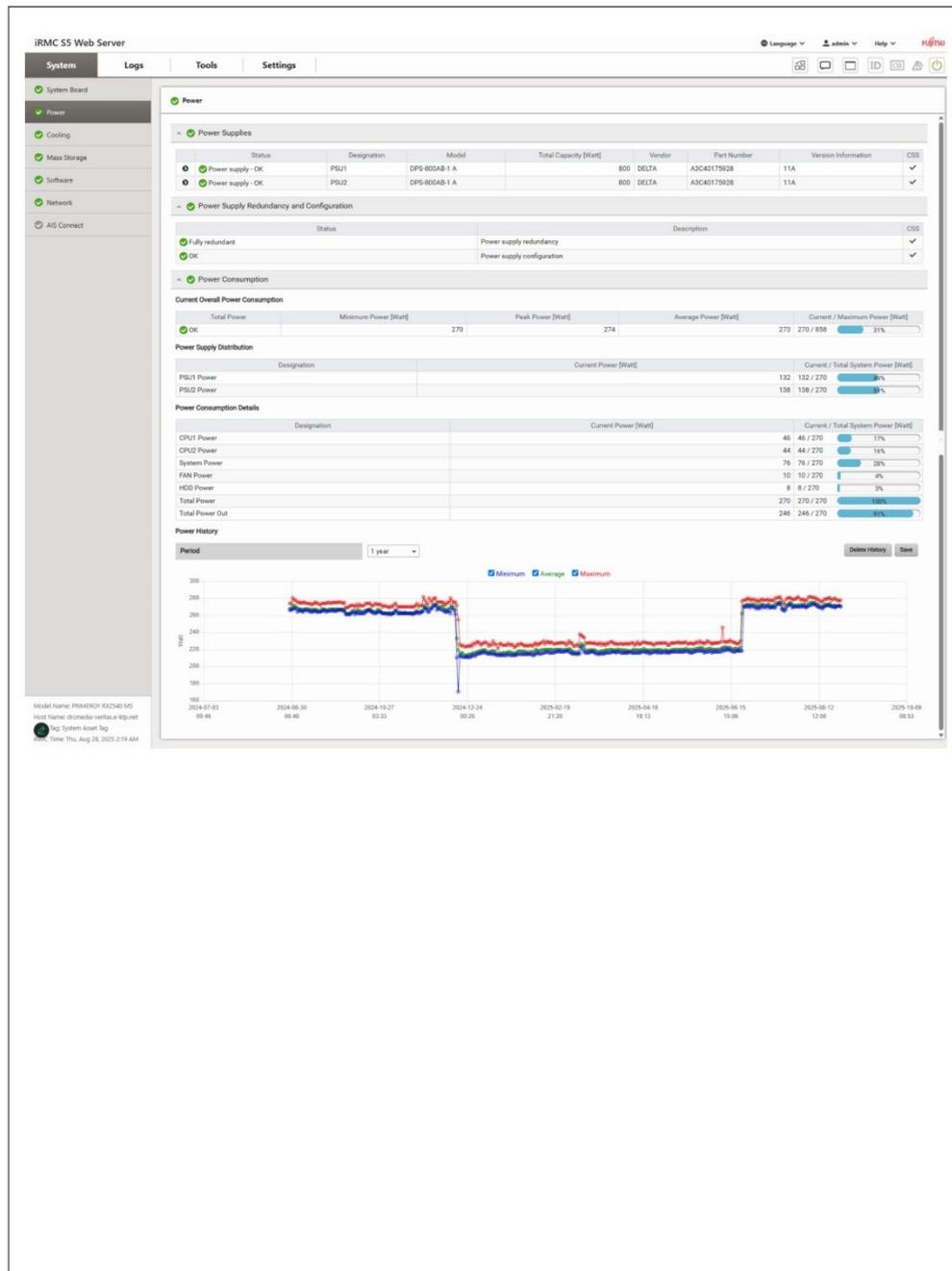
The screenshot displays the iRMC S5 Web Server interface. The main content area is titled 'Overview' and is divided into several sections:

- System Information:**
 - Model Name: PRIMERY R02540 M5
 - Chassis Type: R02540M5B4
 - Serial Number: M450010332
 - Part Number: S2501-K1655-V1xx
 - Asset Tag: System Asset Tag
 - System GUID: C5883F03-7077-4413-A700-4C32604B644D
 - BIOS Version: V5.0.14.R1.19.0 for D3384-B1x
- Operating System (OS) Information:**
 - Host Name: @media-vertas-eksp.net
 - Host IP Address(es): 192.168.144.18, 192.168.122.1, 160.4304246.5199.xb09
 - System Description: Server
 - System Location: Unknown (edit /etc/ompi/ompi.conf)
 - System Contact: root@localhost
 - OS Name: Red Hat Enterprise Linux Server 7.6
 - OS Version: 7.6
 - OS Up Time: 6 months 6 days 18 hours 2 minutes
 - Management Software: None
- System Board Information:**
 - Power Status Summary: Powered on
 - Power Status: Powered on
 - Power On Counter: 4 years 11 months 6 days 15 hours 20 minutes
 - Last Power On Reason: Reboot after warm start
 - Last Power Off Reason: Power switch
- Running iRMC Firmware:**

Firmware Image	Status	3.0GP	Firmware Version	Booster Version	SDRR Version	SDRR ID	Firmware Date	Description
Low Firmware image	Active	3.0GP	1.66	3.60	3.60	0566	Wed Mar 31 2021 18:20:29 GMT+0000	PRODUCTION RELEASE
High Firmware image	Inactive	3.0GP	1.66	3.60	3.60	0566	Wed Mar 31 2021 18:20:29 GMT+0000	PRODUCTION RELEASE

Next Boot Image: Firmware image with highest firmware version
- Active Sessions Information:**
- Installed License Keys:**

At the bottom left of the interface, a status bar shows: Model Name: PRIMERY R02540 M5, Host Name: @media-vertas-eksp.net, iRMC System Asset Tag, and iRMC time: Thu, Aug 28, 2023 2:18 AM.



4.1.3 PRIMERGY RX2540 M5 - MASQ020068

Server Status

IP iRMC:
Overall Status: Normal

IRMC	BIOS
03.06P_sdr03.60	V5.0.0.14 - R1.26.0

Hardware Technical details

No	Part Detail	Status
1	Processor	Normal
2	Memory	Normal
3	Storage Drive	Normal
4	Network	Normal
5	PCI Device	Normal
6	FAN System	Normal
7	PSU	Normal
8	Temperature Sensor	Normal
9	Voltage	Normal

Event Log

Date	Detail	Severity
No Critical Log		

iRMC S5 Web Server
Language admin Help FUJITSU

System

- System Board
- Power**
- Cooling
- Mass Storage
- Software
- Network
- AIS Connect

Overview
Language admin Help FUJITSU

System Information

Model Name	PRIMERGY RX2540 M5
Chassis Type	RX2540M5R4
Serial Number	MASQ200984
Part Number	S2501-K1655-V1ax
Asset Tag	System Asset Tag
System GUID	7E213F66-B2CD-1484-8F18-4C32624EFCDA
BIOS Version	V9.0.0.14 R1.26.0 for D3384B1x

Operating System (OS) Information

System Board Information

Power Status Summary

Power Status	Powered on
Power On Counter	3 years 8 months 10 days 4 hours 23 minutes
Last Power On Reason	Reboot after warm start
Last Power Off Reason	Software or command

Running iRMC Firmware

Firmware Image	Status	Firmware Version	Booter Version	SDRR Version	SDRR ID	Firmware Date	Description
Low Firmware Image	Active	3.06P	1.86	3.60	0566	Wed Mar 31 2021 18:25:29 GMT+07:00	PRODUCTION RELEASE
High Firmware Image	Inactive	3.06P	1.86	3.60	0566	Wed Mar 31 2021 18:25:29 GMT+07:00	PRODUCTION RELEASE

Next Boot Image Firmware image with highest firmware version Reboot iRMC

Active Sessions Information

Installed License Keys

iRMC S5 Web Server
Language admin Help FUJITSU

System

- System Board
- Power**
- Cooling
- Mass Storage
- Software
- Network
- AIS Connect

Power
Language admin Help FUJITSU

Power Supplies

Status	Designation	Model	Total Capacity [Watt]	Vendor	Part Number	Version Information	CSS
Power supply - OK	PSU1	DPS-1200AB-2 A	1200	DELTA	ASC40170546	12A	✓
Power supply - OK	PSU2	DPS-1200AB-2 A	1200	DELTA	ASC40170546	12A	✓

Power Supply Redundancy and Configuration

Status	Description	CSS
Fully redundant	Power supply redundancy	✓
OK	Power supply configuration	✓

Power Consumption

Current Overall Power Consumption

Total Power	Minimum Power [Watt]	Peak Power [Watt]	Average Power [Watt]	Current / Maximum Power [Watt]
579	375	642	579	612 / 1290 44%

Power Supply Distribution

Designation	Current Power [Watt]	Current / Total System Power [Watt]
PSU1 Power	306	306 / 612 50%
PSU2 Power	300	300 / 612 49%

Power Consumption Details

Designation	Current Power [Watt]	Current / Total System Power [Watt]
CPU1 Power	56	56 / 612 9%
CPU2 Power	64	64 / 612 10%
System Power	134	134 / 612 22%
FAN Power	38	38 / 612 6%
HDD Power	16	16 / 612 3%
Total Power	612	612 / 612 100%
Total Power Out	576	576 / 612 94%

Power History

Period: 1 year Delete History Save



4.1.4 PRIMERGY RX2540 M5 - MASQ020067

Server Status

IP iRMC:
Overall Status: Normal

IRMC	BIOS
03.06P_sdr03.60	V5.0.0.14 - R1.26.0

Hardware Technical details

No	Part Detail	Status
1	Processor	Normal
2	Memory	Normal
3	Storage Drive	Normal
4	Network	Normal
5	PCI Device	Normal
6	FAN System	Normal
7	PSU	Normal
8	Temperature Sensor	Normal
9	Voltage	Normal

Event Log

Date	Detail	Severity
No Critical Log		

iRMC S5 Web Server
Language admin Help FUJITSU

- System Board
- Power
- Cooling
- Mass Storage
- Software
- Network
- AIS Connect

Overview

System Information

Model Name	PRIMERGY R92540 M5
Chassis Type	R92540M5B4
Serial Number	MAQ020067
Part Number	S2301-K1659-V1xx
Asset Tag	System Asset Tag
System GUID	A0A7E9E1-8201-1484-96A6-4C32924E97F
BIOS Version	V5.0.0.14.R1.26.0 for D3384-B1x

Operating System (OS) Information

System Board Information

Power Status Summary

Power Status: Powered on

Power On Counter: 2 years 8 months 10 days 5 hours 40 minutes

Last Power On Reason: Reboot after warm start

Last Power Off Reason: Power switch

Running iRMC Firmware

Firmware Image	Status	3 DP	Firmware Version	Booier Version	SDRR Version	SDRR ID	Firmware Date	Description
Low firmware image	Active	3 DP	1.66	3.60	0366	0366	Wed Mar 31 2021 18:20:29 GMT+0000	PRODUCTION RELEASE
High firmware image	Inactive	3 DP	1.66	3.60	0366	0366	Wed Mar 31 2021 18:20:29 GMT+0000	PRODUCTION RELEASE

Next Boot Image: Firmware image with highest firmware version

Active Sessions Information

Installed License Keys

iRMC S5 Web Server
Language admin Help FUJITSU

- System Board
- Power
- Cooling
- Mass Storage
- Software
- Network
- AIS Connect

Power

Power Supplies

Status	Designation	Model	Total Capacity [Watt]	Vendor	Part Number	Version Information	CSS
Power supply - OK	PSU1	DPS-1200A8-2-A	1200	DELTA	A3C40170546	12A	✓
Power supply - OK	PSU2	DPS-1200A8-2-A	1200	DELTA	A3C40170546	12A	✓

Power Supply Redundancy and Configuration

Status	Description	CSS
Fully redundant	Power supply redundancy	✓
OK	Power supply configuration	✓

Power Consumption

Current Overall Power Consumption

Total Power	Minimum Power [Watt]	Peak Power [Watt]	Average Power [Watt]	Current / Maximum Power [Watt]
OK	240	244	242	240 / 1290 19%

Power Supply Distribution

Designation	Current Power [Watt]	Current / Total System Power [Watt]
PSU1 Power	108	108 / 240 45%
PSU2 Power	126	126 / 240 53%

Power Consumption Details

Designation	Current Power [Watt]	Current / Total System Power [Watt]
CPU1 Power	16	16 / 240 7%
CPU2 Power	14	14 / 240 6%
System Power	84	84 / 240 35%
FAN Power	18	18 / 240 8%
HDD Power	8	8 / 240 3%
Total Power	240	240 / 240 100%
Total Power Out	204	204 / 240 85%

Power History

Period: 1 year

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Page 16 of 19

Laporan Preventive Maintenance Periode: Agustus, Quartal II Tahun 2025

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4.1.5 ETERNUS LT260 - SN: 113-LT260

Server Status

IP iRMC:
Overall Status: **Normal**

Hardware Technical details		
No	Part Detail	Status
1	Base Model	Normal
2	Module 1	Normal
3	Module 2	Normal
4	Module 3	Normal
5	Module 4	Normal
6	Module 5	Normal
7	Module 6	Normal
8	FAN System	Normal
9	PSU	Normal

Event Log		
Date	Detail	Severity
No Critical Log		



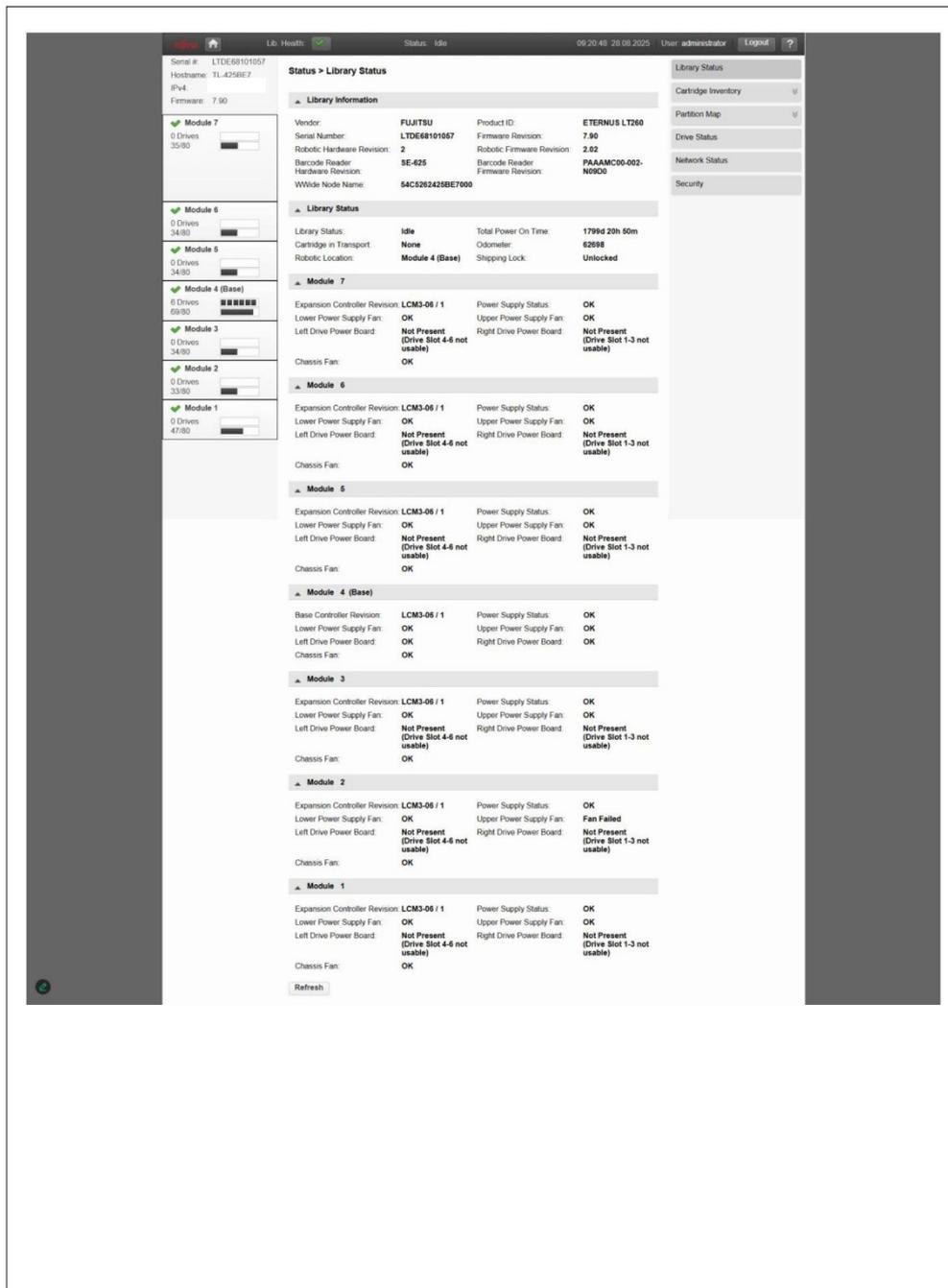
The screenshot displays the Fujitsu RMI (Remote Monitoring Interface) dashboard. The top navigation bar shows the system is in 'Lib. Health' status with a green checkmark, and the user is logged in as 'administrator' on 09-18-41 26.08.2025. The main dashboard is divided into several sections:

- System Information:** Serial # LTDE68101057, Hostname TI_4258F7, IPv4, and Firmware 7.90.
- Module Status:** A vertical list of modules (Module 1 to Module 7) with their respective drive counts and health indicators. Module 4 (Base) shows 6 drives with a detailed status bar.
- Navigation:** Buttons for 'Open Mailslot', 'Open Magazine', 'Configuration', 'Maintenance', 'Operation', and 'Status'.
- Recent Events:** A log of system events, including successful configuration backups and user login/logout activities.

The second screenshot shows the 'Status > Drive Status' page. It features a table of drive information and a sidebar for library status.

ID	S/N	Model	Health	Capacity	Power
1	S/N: 2425BE70B5	IBM LTO 7 HH FC	Empty	On	
2	S/N: 2425BE70BF	IBM LTO 7 HH FC	Empty	On	
3	S/N: 2425BE70C9	IBM LTO 7 HH FC	Empty	On	
4	S/N: 2425BE70D3	IBM LTO 7 HH FC	Empty	On	
5	S/N: 2425BE70DD	IBM LTO 7 HH FC	Empty	On	
6	S/N: 2425BE70E7	IBM LTO 7 HH FC	Empty	On	

The sidebar on the right includes 'Library Status' with options for Cartridge Inventory, Partition Map, Drive Status, Network Status, and Security.



The screenshot displays the 'Status > Library Status' page for a Fujitsu LT260 library. The interface includes a sidebar with drive status indicators for Modules 1 through 7, and a main content area with the following sections:

- Library information:** Vendor: FUJITSU, Product ID: ETERNUS LT260, Serial Number: LTDE68101057, Firmware Revision: 7.90, Robotic Hardware Revision: 2, Barcode Reader Hardware Revision: SE-425, Barcode Reader Firmware Revision: PAAAMC00-002-N002, WWide Node Name: 54C5262428BE7000.
- Library Status:** Library Status: Idle, Total Power On Time: 1799d 20h 50m, Cartridge in Transport: None, Odometer: 62698, Robotic Location: Module 4 (Base), Shipping Lock: Unlocked.
- Module 7:** Expansion Controller Revision: LCM3-06 / 1, Power Supply Status: OK, Lower Power Supply Fan: OK, Upper Power Supply Fan: OK, Left Drive Power Board: Not Present (Drive Slot 4-6 not usable), Right Drive Power Board: Not Present (Drive Slot 1-3 not usable), Chassis Fan: OK.
- Module 6:** Expansion Controller Revision: LCM3-06 / 1, Power Supply Status: OK, Lower Power Supply Fan: OK, Upper Power Supply Fan: OK, Left Drive Power Board: Not Present (Drive Slot 4-6 not usable), Right Drive Power Board: Not Present (Drive Slot 1-3 not usable), Chassis Fan: OK.
- Module 5:** Expansion Controller Revision: LCM3-06 / 1, Power Supply Status: OK, Lower Power Supply Fan: OK, Upper Power Supply Fan: OK, Left Drive Power Board: Not Present (Drive Slot 4-6 not usable), Right Drive Power Board: Not Present (Drive Slot 1-3 not usable), Chassis Fan: OK.
- Module 4 (Base):** Base Controller Revision: LCM3-06 / 1, Power Supply Status: OK, Lower Power Supply Fan: OK, Upper Power Supply Fan: OK, Left Drive Power Board: OK, Right Drive Power Board: OK, Chassis Fan: OK.
- Module 3:** Expansion Controller Revision: LCM3-06 / 1, Power Supply Status: OK, Lower Power Supply Fan: OK, Upper Power Supply Fan: OK, Left Drive Power Board: Not Present (Drive Slot 4-6 not usable), Right Drive Power Board: Not Present (Drive Slot 1-3 not usable), Chassis Fan: OK.
- Module 2:** Expansion Controller Revision: LCM3-06 / 1, Power Supply Status: OK, Lower Power Supply Fan: OK, Upper Power Supply Fan: Fan Failed, Left Drive Power Board: Not Present (Drive Slot 4-6 not usable), Right Drive Power Board: Not Present (Drive Slot 1-3 not usable), Chassis Fan: OK.
- Module 1:** Expansion Controller Revision: LCM3-06 / 1, Power Supply Status: OK, Lower Power Supply Fan: OK, Upper Power Supply Fan: OK, Left Drive Power Board: Not Present (Drive Slot 4-6 not usable), Right Drive Power Board: Not Present (Drive Slot 1-3 not usable), Chassis Fan: OK.

- **Perangkat Fujitsu RX2540 M5 Normal**
- **Perangkat Fujitsu ETERNUS LT260 Normal**

8. Kesimpulan dan Rekomendasi

Berdasarkan hasil evaluasi dari kegiatan Preventive Maintenance, berikut adalah rekomendasi dan solusi yang dapat diterapkan untuk meningkatkan kinerja di DRC Batam

- HPE Synergy12000 CTO Frame berjalan normal, hasil inspeksi dari engineer HPE semua item normal, pada periode ini di perlukan update firmware.
- HPE Synergy 480 Gen 10 CTO berjalan normal, hasil inspeksi dari engineer HPE semua item normal, pada periode ini di perlukan update firmware.
- HPE DL380 Gen 10 8SFF CTO Server berjalan normal, hasil inspeksi dari engineer HPE semua item normal, pada periode ini belum di perlukan update firmware.
- Fujitsu Primergy RX2540 M5 berjalan normal, hasil inspeksi semua item list normal, pada periode ini di perlukan update firmware.
- Fujitsu ETERNUS LT260 berjalan normal, hasil inspeksi semua item list normal, pada periode ini di perlukan update firmware.
- Huawei Blade Server CH121 V3 berjalan normal, hasil inspeksi dari tools smartkit semua item list normal, pada periode ini belum di perlukan update firmware.
- Huawei Blade Server CH121 V3 berjalan normal, hasil inspeksi dari tools smartkit semua item list normal, pada periode ini belum di perlukan update firmware.
- Huawei E9000 berjalan normal, hasil inspeksi dari tools smartkit semua item list normal, pada periode ini belum di perlukan update firmware.
- Huawei Core Switch CE 12808 berjalan normal, hasil inspeksi tools edespro semua item list normal, pada periode ini belum di perlukan update firmware.
- Tabel berikut merangkum kondisi dari SAN OceanStor SNS5192 DRC Batam, meliputi status switch, status fan, status power supply, dan status CP.

Switchname	S/N	Status	Slot Status	Status Fan		Status Power Supply	
				Fan 1	Fan 2	PS 1	PS 2
MOHA_SNS5192_SAN_B	ANN2542LOMN	Healthy	OK	OK	OK	OK	OK

- Seluruh Control Processor (CP blade) director OceanStor SNS5192 di SAN *fabric* dalam keadaan baik, *enabled*, *Heartbeat Up*, dan tersinkronisasi, pada periode ini belum di perlukan update firmware.

BERITA ACARA

PENYELESAIAN KEGIATAN PREVENTIVE MAINTENANCE TAHAP II PEKERJAAN ANNUAL TECHNICAL SUPPORT SERVER DAN STORAGE DRC TAHUN 2025

Pada hari ini, tanggal **Tujuh** bulan **Juni** tahun **Dua Ribu Dua Puluh Lima (07-08-2025)**, yang bertanda tangan dibawah ini:

- I. Nama : Amoresa Lionar, ST., MBA
NIP : 198405012008011001
Jabatan : Pranata Komputer Ahli Muda
Alamat : Jl. Raya Pasar Minggu Km. 19 Jakarta Selatan

Yang selanjutnya disebut **PIHAK PERTAMA**

- II. Nama : Alugoro Agung Prabowo
Jabatan : Project Manager
Alamat : Gedung World Trade Centre 5 Lt.3A
Jl. Jend. Sudirman Kav.29-31, Jakarta

Yang selanjutnya disebut **PIHAK KEDUA**

Sehubungan dengan telah dilakukannya penyelesaian kegiatan Preventive Maintenance bulan Agustus tahun 2025, dengan ini menyatakan bahwa **PIHAK KEDUA** menyerahkan kepada **PIHAK PERTAMA** sebagai berikut:

1. Pihak pertama menerima Laporan Kegiatan Preventive Maintenance tersebut dengan baik. Demikian Berita Acara Serah Terima ini dibuat dalam rangkap secukupnya dan menjadi sah berlakunya setelah ditandatangani oleh pihak pihak yang bersangkutan.

PIHAK PERTAMA

PIHAK KEDUA

(Amoresa Lionar, ST., MBA)
NIP. 19840501 200801 1 001

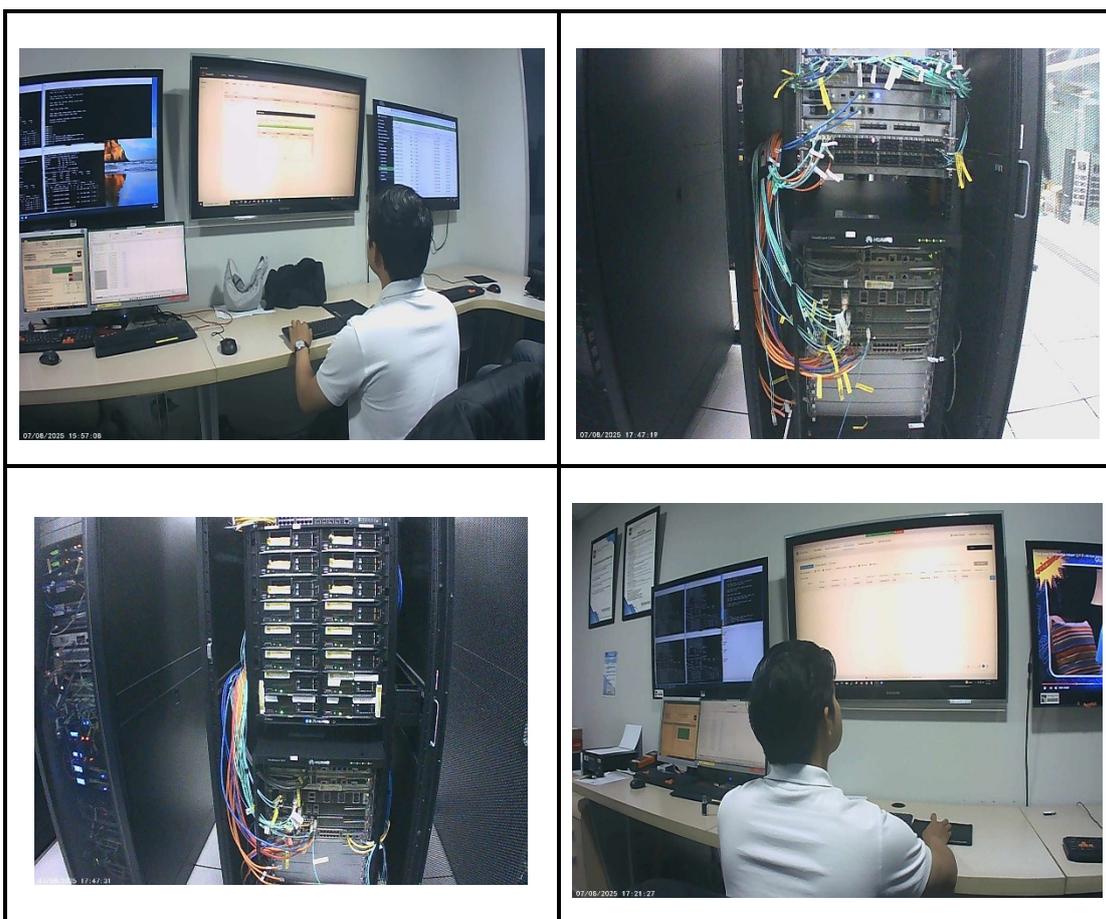
(Alugoro Agung Prabowo)
**PT Trimitra Data Teknologi -Project
Manager**

Mengetahui
Kepala Sub Direktorat
Data Center dan Disaster Recovery Center

(Krisnubrata W., S.Kom., M.Si)
NIP. 19730314 200801 1008

9. Lampiran

Kegiatan Preventive Maintenance Perangkat Chassis E9000, Blade Server CH121 V3 dan V5, Core Switch CE12808, dan SAN Director SNS5192 (7 Agustus 2025)



Kegiatan Preventive Maintenance Perangkat HPE Synergy12000 CTO Frame dan HPE Synergy 480 Gen 10 CTO (5 – 7 Agustus 2025)



Kegiatan Preventive Maintenance Perangkat Fujitsu Primergy RX2540 M5, Primequest 3800E2, dan Tape Systems (28 Agustus 2025)

