



Pharmacy Information System (PhIS) and Clinic Pharmacy System (CPS)

Hospital Serdang

**JKN SELANGOR
(ZONE 10)**

1ST Preventive Maintenance Report

P.M. Date	7 FEBRUARY 2018
Report ID	PM/REPORT/ZONE10/HOSPITALSERDANG
Report Version	V1.0



PhIS & CPS PROJECT



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Revision History:

Ver. No	Date of Release	Consolidated by	List of Changes from Previous Version	Signature & Date
1.0	7/02/2018	Muhammad Anuar bin Awaluddin	Initial document	 MUHAMMAD ANUAR B. AWALUDDIN PHIS & CPS Implementer Pharmaniaga Logistic Sdn. Bhd. 7/2/18

Verified and Acknowledged by facility:

Received / Acknowledged by facility	
Name	
Signature / Company Stamp	 MOHD HANIF BIN HASSAN Pen. Pegawai Teknologi Maklumat F29 Hospital Serdang
Designation / Department	
Date	7/02/18



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Appendix A

Certificate of Acceptance



EXECUTION OF PREVENTIVE MAINTENANCE

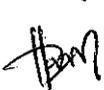
Project: PhIS & CPS

**1ST Preventive Maintenance (2018)
For
Hospital Serdang**

Summary findings for Preventive Maintenance conducted on 7/02/2018

No	Item	Allocated Quantity	Serviced Quantity	Remarks
1	Desktop	1	1	
2	LaserJet Printer	1	1	
3	Server	2	2	
4	Storage	1	1	
5	Switch	1	1	
6	UPS	1	1	

Signature & Stamp:

<p><u>For PLSB</u></p>  <p>Name: MUHAMMAD ANUAR B. AWALUDIN PhIS & CPS Implementer Designation: Pharmaniaga Logistic Sup. Sdn. Bhd. Date: 7/2/18</p>	<p><u>For Facility</u></p>  <p>Name: MOHD HANIF BIN HASSAN Pn. Pegawai Teknikal Kesihatan F20 Designation: Hospital Serdang Date: 7/2/18</p>
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Appendix B

Preventive Maintenance Checklist

**PREVENTIVE MAINTENANCE CHECKLIST
(SERVER / UPS / STORAGE)**

(FORM 2)

FACILITY : HOSPITAL SERDANG
STATE : SELANGOR

DEPT : IT
ZONE : 10

LOCATION : SERVER ROOM

SERVER 1	SERVER 2	UPS
PAT ID : PHIS/SEL-04/HSP-01/SVR-001	PAT ID : PHIS/SEL-04/HSP-01/SVR-001	PAT ID : PHIS/SEL-04/HSP-01/UPS-001
SERIAL NO : 06VXBHW	SERIAL NO : 06BXLBR	SERIAL NO : 1515403115A413
MODEL : LENOVO X3650 M5	MODEL : LENOVO X3650 M5	MODEL : LIEBERT GXT3-1D00RT230

If Alert is tick (V), fill in & elaborate details in FINDINGS / COMMENTS / DETECTION section.

PART I - HARDWARE, CABLING & CONNECTIVITY (INSPECTION & PHYSICAL CHECK)

Standard Task:

- Cleaning
- Verify Condition :
- Connection via LAN / USB
- Fan/ Power Supply
- Light Path Diagnosis panel
- UTP Cable connect to switch
- HA Gateway to Core Switch *(for Hospital only)*

Function	SERVER 1	
	Not Function & Resolved	Not Function & Unresolved
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Function	SERVER 2	
	Not Function & Resolved	Not Function & Unresolved
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Function	UPS	
	Not Function & Resolved	Not Function & Unresolved
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

By pass Test
Webcard
Multilink

Available	Type	Faulty	Qty
5			

PART II - SETUP & HEALTH CHECK

Function	SERVER 1		SERVER 2	
	Not Function & Resolved	Not Function & Unresolved	Alert	Ticket No
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Run DSA & collect DSA Log
SERVER 1
SERVER 2

Software/Firmware Version :

	SERVER 1	SERVER 2
Current	Updated	Updated
ClamAV	0.98.3	0.98.3
Zabbix	2.2.6	2.2.6
Bacula	5.2.12	5.2.12
Glassfish	3.1.2.2	3.1.2.2
UEFI	1.11	
IVIM2	1.75	

SERVER 1	
Current	Updated
SUSE 11	
3-0.76-0.11	
4.3.4	

SERVER 2	
Current	Updated
SUSE 11	
3-0.76-0.11	
4.3.4	

SERVER 1	
Current	Updated
SUSE 11	
3-0.76-0.11	
4.3.4	

SERVER 2	
Current	Updated
SUSE 11	
3-0.76-0.11	
4.3.4	

System Software
SUSE LINUX (OS)
Kernel
GCC
Housekeeping:
Clear /tmp folder > 2 weeks
Archive Log Files

**PREVENTIVE MAINTENANCE CHECKLIST
(CORE SWITCH / DISTRIBUTION SWITCH)**

(FORM 3)

FACILITY : HOSPITAL SERDANG DEPT : IT LOCATION : STATE : SELANGOR ZONE : 10 SERVER ROOM

PAT ID : PHIS/SEL-04/HSP-01/DSW-001 Location : Relocated

SERIAL NO: DNI201507GD Loaned Unlocated

PART I - STANDARD TASK

Cleaning

Verify Condition :
Cable & Connection
Power Supply
Check LED Status
System LED
Master LED
STACK ID

Function	Not Function & Resolved	Alert	Ticket No.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

PART II - STANDARD HEALTH CHECK

PART III - STANDARD SETUP

SSH Access & Connection
Execute Putty to start
Specify the IP to connect
Test Login
Test & Verify Management IP via console access

Function	Not Function & Resolved	Alert	Ticket No.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

CORE SWITCH / DISTRIBUTION SWITCH

Location :

Loaned Unlocated Relocated

PART I - STANDARD TASK

Cleaning

Verify Condition :
Cable & Connection
Power Supply
Check LED Status
System LED
Master LED
STACK ID

Function	Not Function & Resolved	Alert	Ticket No.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

PART II - STANDARD HEALTH CHECK

PART III - STANDARD SETUP

SSH Access & Connection
Execute Putty to start
Specify the IP to connect
Test Login
Test & Verify Management IP via console access

Function	Not Function & Resolved	Alert	Ticket No.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

PART IV - FINDINGS / COMMENTS / DETECTION

FURTHER ACTION / RECOMMENDATION

PART V - ACKNOWLEDGEMENT

CUSTOMER

Signature & Stamp

Customer Name

Date

PH
WOPD HANIF BIN HASSAN
PHIS & OPS Implementation
Selangor

7/2/18

PHARMANIAGA LOGISTICS SDN BHD (PHIS)

Signature & Stamp

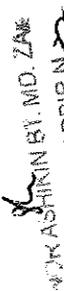
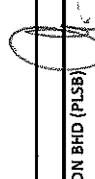
Engineer Name

Date

MUHAMMAD ANUAR B. ANSARI
PHIS & OPS Implementation
Pharmaniaga Logistic Sdn. Bhd.

7/2/18

**PREVENTIVE MAINTENANCE CHECKLIST
(DEVICE)**

FACILITY : HOSPITAL SERDANG		DEPT : STOR LOGISTIK		LOCATION :		STATE : SELANGOR		ZONE : 10	
PAT ID : PHIS/SEL-04/HSP-03/PCD-001		DESKTOP / NOTEBOOK / LASERJET / THERMAL-PRINTER		Location :		STOR LOGISTIK			
S/N CPU : PC04RRVB		MONITOR : V901ERP2		MOUSE : H55L6H1XSM		Keyboard : 6001793		Released : <input type="checkbox"/>	
PART I - STANDARD TASK All Device: <input checked="" type="checkbox"/> Cleaning Desktop/Notebook: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Device is harden <input checked="" type="checkbox"/> 2 GB <input type="checkbox"/> 4 GB MEMORY : 2 GB <input type="checkbox"/> 4 GB <input type="checkbox"/>		PART II - STANDARD HEALTH CHECK Verify Condition : Connection via LAN / USB <input type="checkbox"/> Fan/ Power Supply/ Charger <input type="checkbox"/> Hard Disk Utilization (GB) : 1st Partition <input type="checkbox"/> 2nd Partition <input type="checkbox"/>		PART III - STANDARD SETUP Auto update disabled: (a) Java (JDK 6 update 30) <input type="checkbox"/> (b) Internet Explorer 9 (64bits) <input type="checkbox"/> ClamAV - Ver 0.98.3 <input type="checkbox"/> Microsoft Office <input type="checkbox"/> BCP (BCP PC only) <input type="checkbox"/> Backup PC (Bacula Web) <input type="checkbox"/>		Verification: IWP <input type="checkbox"/> KYM <input type="checkbox"/> PHIS Portal <input type="checkbox"/>		Function <input type="checkbox"/> Not Function & Resolved <input type="checkbox"/> Updated Version <input type="checkbox"/> Function <input type="checkbox"/> Not Function & Resolved <input type="checkbox"/> Updated Version <input type="checkbox"/> Function <input type="checkbox"/> Not Function & Resolved <input type="checkbox"/> Updated Version <input type="checkbox"/> Function <input type="checkbox"/> Not Function & Resolved <input type="checkbox"/> Updated Version <input type="checkbox"/>	
PAT ID : PHIS/SEL-04/HSP-03/LIP-001		DESKTOP / NOTEBOOK / LASERJET / THERMAL-PRINTER		Location :		STOR LOGISTIK			
S/N CPU : 45LM1ZRWK		MONITOR :		MOUSE :		Keyboard :		Released : <input type="checkbox"/>	
PART I - STANDARD TASK All Device: <input checked="" type="checkbox"/> Cleaning Desktop/Notebook: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Device is harden <input type="checkbox"/> 2 GB <input type="checkbox"/> 4 GB MEMORY : 2 GB <input type="checkbox"/> 4 GB <input type="checkbox"/>		PART II - STANDARD HEALTH CHECK Verify Condition : Connection via LAN / USB <input type="checkbox"/> Fan/ Power Supply/ Charger <input type="checkbox"/> Hard Disk Utilization (GB) : 1st Partition <input type="checkbox"/> 2nd Partition <input type="checkbox"/>		PART III - STANDARD SETUP Auto update disabled: (a) Java (JDK 6 update 30) <input type="checkbox"/> (b) Internet Explorer 9 (64bits) <input type="checkbox"/> ClamAV - Ver 0.98.3 <input type="checkbox"/> Microsoft Office <input type="checkbox"/> BCP (BCP PC only) <input type="checkbox"/> Backup PC (Bacula Web) <input type="checkbox"/>		Verification: IWP <input type="checkbox"/> KYM <input type="checkbox"/> PHIS Portal <input type="checkbox"/>		Function <input type="checkbox"/> Not Function & Resolved <input type="checkbox"/> Updated Version <input type="checkbox"/> Function <input type="checkbox"/> Not Function & Resolved <input type="checkbox"/> Updated Version <input type="checkbox"/> Function <input type="checkbox"/> Not Function & Resolved <input type="checkbox"/> Updated Version <input type="checkbox"/> Function <input type="checkbox"/> Not Function & Resolved <input type="checkbox"/> Updated Version <input type="checkbox"/>	
PART IV - FINDINGS / ALERTS / DETECTION FURTHER ACTION / RECOMMENDATION									
PART V - ACKNOWLEDGEMENT CUSTOMER Signature & Stamp :  DR. ASHIKIN BT. MD. ZAM Customer Name : SEMBANTU TADBIR N Date : HOSPITAL SERDANG									
Signature & Stamp :  MUHAMMAD ANWAR B. ANWARUDIN Engineer Name : PHIS & OPS Implementasi Date : Pharmagiaga Logistic Sdn. Bhd.									



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Appendix C

Hardware Inventory List



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Hardware Inventory List

List of equipment available in the facility as per below table:

1 PCD

No	CPU	MONITOR	KEYBOARD	MOUSE	ASSET TAGGING	DEPARTMENT	LOCATION
1	PC04RRVB	V901ERP2	0001793	HS516HA1XSM	PhIS/SEL-04/HSP-01/PCD-001	STOR LOGISTIK	STOR LOGISTIK

2. LASERJET PRINTER

No.	LASERJET	ASSET TAGGING	DEPARTMENT	LOCATION
1	45LM1ZRWK	PhIS/SEL-04/HSP-01/LJP-001	STOR LOGISTIK	STOR LOGISTIK

3.SERVER

No.	SERVER	ASSET TAGGING	DEPARTMENT	LOCATION
1	06VXBHW	PhIS/SEL-04/HSP-01/SVR-001	IT	Server Room
2	06BXBLR	PhIS/SEL-04/HSP-01/SVR-002	IT	Server Room

4.UPS

No.	UPS	ASSET TAGGING	DEPARTMENT	LOCATION
1	1515403115AF413	PhIS/SEL-04/HSP-01/UPS-001	IT	Server Room

5.STORAGE

No.	SERVER	ASSET TAGGING	DEPARTMENT	LOCATION
1	7843152	PhIS/SEL-04/HSP-01/STR-001	IT	Server Room

6.SWITCH

No.	SERVER	ASSET TAGGING	DEPARTMENT	LOCATION
1	DNI201507GD	PhIS/SEL-04/HSP-01/DSW-001	IT	Server Room