

## Preventative Maintenance (SERVER)

Job No:	8401L0067
System Description:	ISOSS SECURITY SYSTEM
Station Name:	LV6 Woodlands LV / 192.169.19.1
Customer:	LTA
Project No:	1534

ATTENDED BY Sasuke

(WILLOWGLEN)

WITNESSED BY Sakura

(CUSTOMER)

START DATE/TIME 03/11/2025 07:00

COMPLETION DATE/TIME 04/11/2025 08:00

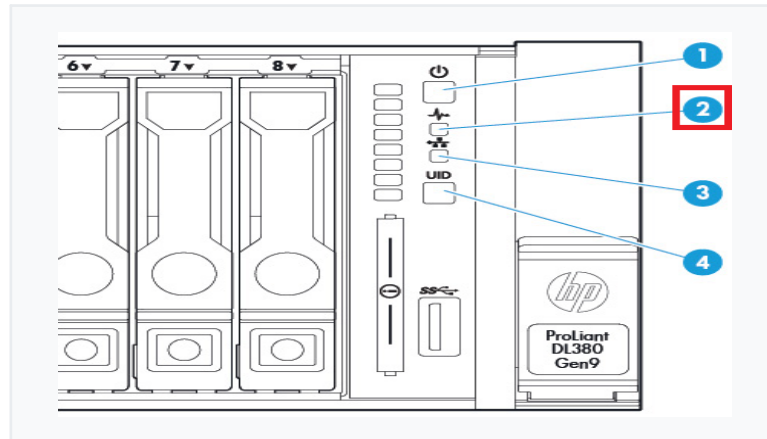
### ***Remark***

Sign Off Information for LTA SITE

## Server Health Check

### Check Instructions:

Check Server Front Panel LED Number 2, as shown below. Check LED 2 in solid green, which indicates the server is healthy.



Server Name	Result Status
CR-ECID-IF-SVR00002	Fail
CR-ECID-IF-SVR00001	Pass
CR-ECID-IF-SVR00003	Pass

### Remark

Server Health Check for LTA site (KCDE and ECID sites)

## Hard Drive Health Check

### Hard Drive Health Check Instructions:

Check Hard Drive Health Status LED, LED in solid/blinking green, which indicates healthy.



Server Name	Result Status
CR-ECID-IF-SVR00002	Fail
CR-ECID-IF-SVR00001	Pass
CR-ECID-IF-SVR00003	Pass

### Remark

Hard Drive Health Check for LTA (KCDE and ECID sites)

## Disk Usage Check

### Using Computer Management

- From Control Panel → Administration Tools → Computer Management.
- click on the Storage → Disk Management. check the Status for all the hard disk
- Remove old windows event logs to meet the target disk usage limit

\* **Note:** The HDSRS servers with SQL Server Database keep the historical data and daily/weekly/monthly backups. The disk space usage can be up to 90%, which is considered as normal.

### CR-ECID-IF-SVR0002: - Disk Capacity:

Disk	Status	Capacity	Free Space	Usage %	Check
AA	Healthy	2000	500	80	Fail

### CR-ECID-IF-SVR0003: - Disk Capacity:

Disk	Status	Capacity	Free Space	Usage %	Check
BB	Healthy	3000	2000	32	Pass

### Remark

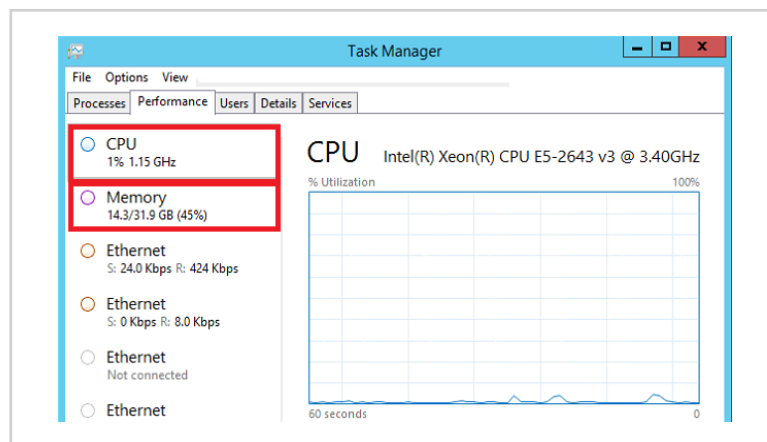
Server Disk Usage Check for LTA (KCDE and ECID site)

## Server CPU and RAM Usage Check

### Using Task Manager, and go to Performance Tab

- Right click on the task bar and select task manager

\* **Note:** The SQL Server Database on HDSRS Servers use as much memory as it needs to provide best performance, we limit the memory usage so the overall server memory usage can be up to 90%



No CPU and memory usage data available

## ■ Network Health Check

Server Name	Networkinterface	address	Status	Result Status	Remarks
					Network Health Check for LTA (K

## ■ Willowlynx Process Status Check

Process Name	Status	Cpuusage	Memoryusage	Result Status	Remarks
					Willowlynx Process Status Check



## ■ Willowlynx Network Status Check

Networkname	Status	Latency	Packetloss	Result Status	Remarks
					Willowlynx Network Status Check

## ■ Willowlynx RTU Status Check

RTU Name	Status	Lastcommunication	Result Status	Remarks
				Willowlynx RTU Status Check for LTA

## ■ Willowlynx Historical Trend Check

Trend Name	Datapoints	Startdate	Enddate	Result Status	Remarks
					Willowlynx Historical Trend Check

## ■ Willowlynx Historical Report Check

Report Name	Reporttype	Generateddate	Result Status	Remarks
				Willowlynx Historical Report Check fo

## ■ Willowlynx Sump Pit CCTV Camera Check

Camera Name	Location	Status	Resolution	Result Status	Remarks
					Willowlynx Sump Pit CCTV Came

## ■ Monthly Database Creation Check

■ **Remarks:** Monthly Database Creation for LTA (KCDE && ECID sites)

Database Name	Creationdate	Size	Status	Result Status	Remarks

## ■ Database Backup Check

### Database Backup

Check **D:\MSSQLSERVER-BACKUP\Monthly** make sure the database is backup in this directory.

#### ■ MSSQL Database Backup Check

S/N	Item	Monthly DB Backup are Created
1	CR-KCDE-IF-SVR0002	■ d2a176eb-272f-43e1-85e0-23f8b60fcb92
2	CR-KCDE-IF-SVR0005	■ b1b20965-91d2-428f-8cc0-292fec170515

#### ■ SCADA Database Backup Check

S/N	Item	SCADA DB Backup are Created
1	CR-KCDE-IF-SVR0004	■ d2a176eb-272f-43e1-85e0-23f8b60fcb92
2	CR-KCDE-IF-SVR0006	■ b1b20965-91d2-428f-8cc0-292fec170515

#### ■ Latest Backup File Name

sql\_ecid\_kcde\_AMS\_31102025.sql

#### ■ Remarks

Database Backup for LTA site (KCDE and ECID sites)

## ■ SCADA & Historical Time Sync Check

To check the time sync for SCADA server, Historical server, and HMIs by using command line w32tm /query /status. To be within 5 minutes tolerance

S/N	Machine Name	Time Sync Result
2	CR-ECID-IF-SVR0002	■ Pass
3	CR-ECID-IF-SVR0003	■ Pass
1	CR-ECID-IF-SVR0001	■ Fail

### ■ Remarks

SCADA & Historical Time Sync for LTA Site (KCDE and ECID)



## ■ Hotfixes / Service Packs

■ **Remarks:** Hotfixes / Service Packs for LTA (KCDE and ECID site)

Hotfixid	Description	Installdate	Status	Result Status	Remarks
				■ Pass	
				■ Pass	
				■ Fail	

## ■ Auto failover of SCADA server

■ **Remarks:** Auto Failover of SCADA Server for LTA (KCDE && ECID sites)

Servicename	Primaryserver	Secondaryserver	Status	Result Status	Remarks

## ■ ASA Firewall Maintenance

Firewallname	Version	Status	Lastupdate	Result Status	Remarks
				■ Pass	ASA Firewall Maintenance for LT7
				■ Pass	ASA Firewall Maintenance for LT7

## ■ Software Patch Summary

■ **Remarks:** Software Patch Summary for LTA Site (KCDE && ECID)

Patch Name	Version	Installdate	Status	Result Status	Remarks