

Preventative Maintenance (SERVER)

Job No:	10010003
System Description:	ISOSS SECURITY SYSTEM
Station Name:	Ang Mo Kio Offtake / 192.169.1.1
Customer:	SP Gas
Project No:	1453



Willowglen Services Pte Ltd
103 Defu Lane 10, #05-01 Singapore 539223
Tel: (65) 6280 0437 Fax: (65) 6286 2002
Company Registration No: 198602842C

ATTENDED BY

Rekha

(WILLOWGLEN)

WITNESSED BY

Ivan

(CUSTOMER)

START DATE/TIME

24/11/2025 21:00

COMPLETION DATE/TIME 26/11/2025 02:00

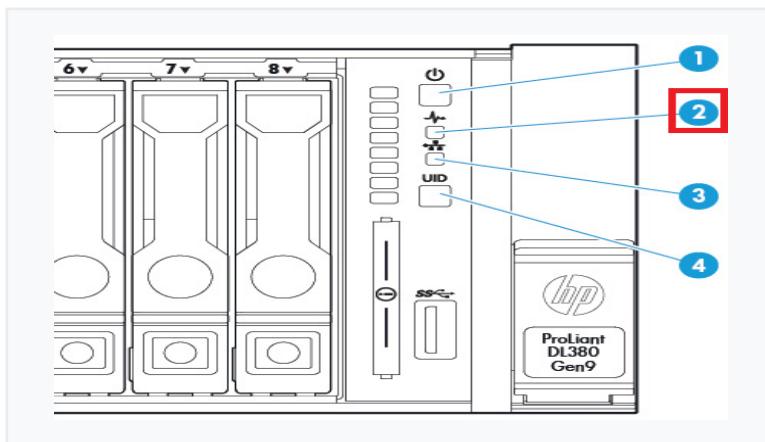
Remark

Sign off information is here testing.

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.



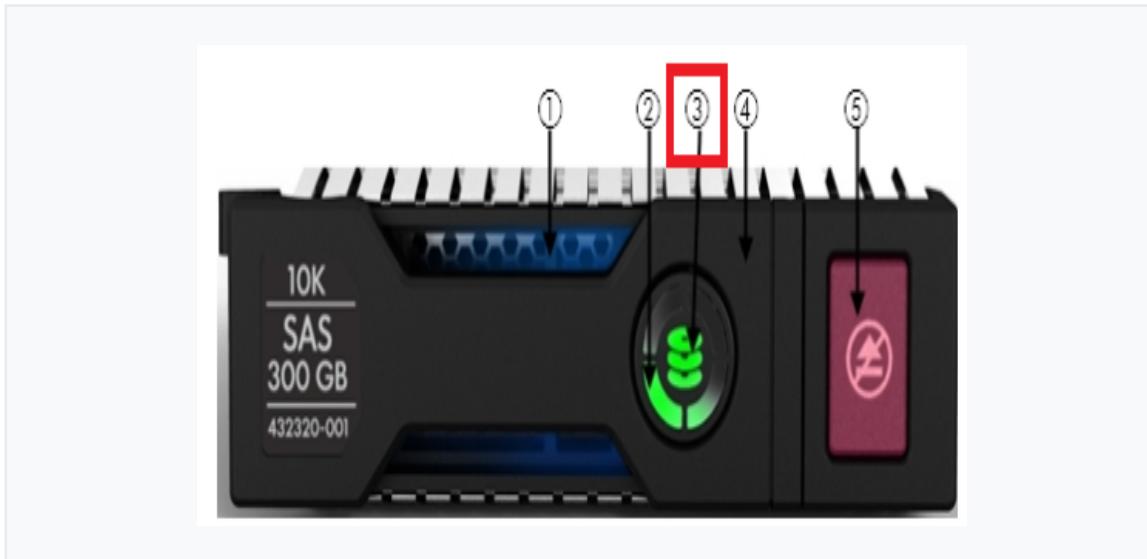
Server Name	Result Status
CR-KCDe-IF-SVR1	Pass
CR-KCDe-IF-SVR3	Pass
CR-KCDe-IF-SVR2	Fail

Remarks

Server Health Check information is here testing.

Hard Drive Health Check

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



Check if the LED is in solid/blingking green

No hard drive health data available

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 disks.
- 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.

No disk usage data available

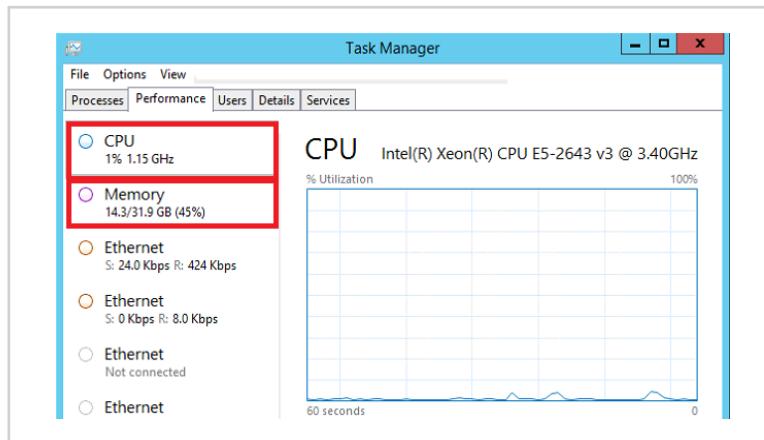
Remark

No specific remarks for disk usage check.

CPU and RAM Usage Check

Using Task Manager, go to Performance Tab

- Right click on the task bar and select Task Manager.



No CPU and memory usage data available



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Network Health Check

No network health data available



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Willowlynx Process Status Check

Process Status

No Willowlynx Process Status data available



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Willowlynx Network Status Check

No Willowlynx network status data available



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Willowlynx RTU Status Check

No Willowlynx RTU status data available



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Willowlynx Historical Trend Check

No Willowlynx historical trend data available



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Willowlynx Historical Report Check

No Willowlynx historical report data available



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Willowlynx Sump Pit CCTV Camera Check

No Willowlynx CCTV camera data available



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Monthly Database Creation Check

Willowlynx's historical database uses monthly partitions. Confirm MSSQL has the next six months created.

No monthly database creation data available



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Database Backup Check

Check D:\MSSQLSERVER-BACKUP\Monthly and ensure the database backups exist in this directory.

No database backup data available

SCADA & Historical Time Sync Check

Instructions:

Verify the SCADA server, historical server, and HMIs are time synchronised by running w32tm /query /status. The difference shall be within five minutes.

No time sync data available



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Hotfixes / Service Packs

Review and apply the latest hotfixes or service packs on all applicable servers.

No hotfix data available

Auto failover of SCADA server

Auto failover of SCADA server testing procedures:

Note: Make sure both SCADA servers are online after completing the test.

No auto failover data available

ASA Firewall Maintenance

To check ASA firewall health and backup the running configuration:

1. Connect to the ASDM application from the SCADA server.
2. Access the ASA firewall CLI and input the commands below.

No ASA firewall data available

3. Check the firewall overview to ensure everything is running properly.
4. Backup the configuration to the D drive of SCADA SVR1.



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Software Patch Summary

No software patch data available