

OVERVIEW

LifeSafety Power's NetLink modules provide network monitoring and control of a power system in access control or other related systems.

As part of the monitoring provided, periodic reports may either be exported or emailed from the NetLink with a history of data points taken to aid in diagnosing problems or monitoring the overall health of the power system.

This application note will help you make the most of these reports, using an NL4 with a connected FPO75 an M8 board, and an additional B100 set for 5V in the examples.

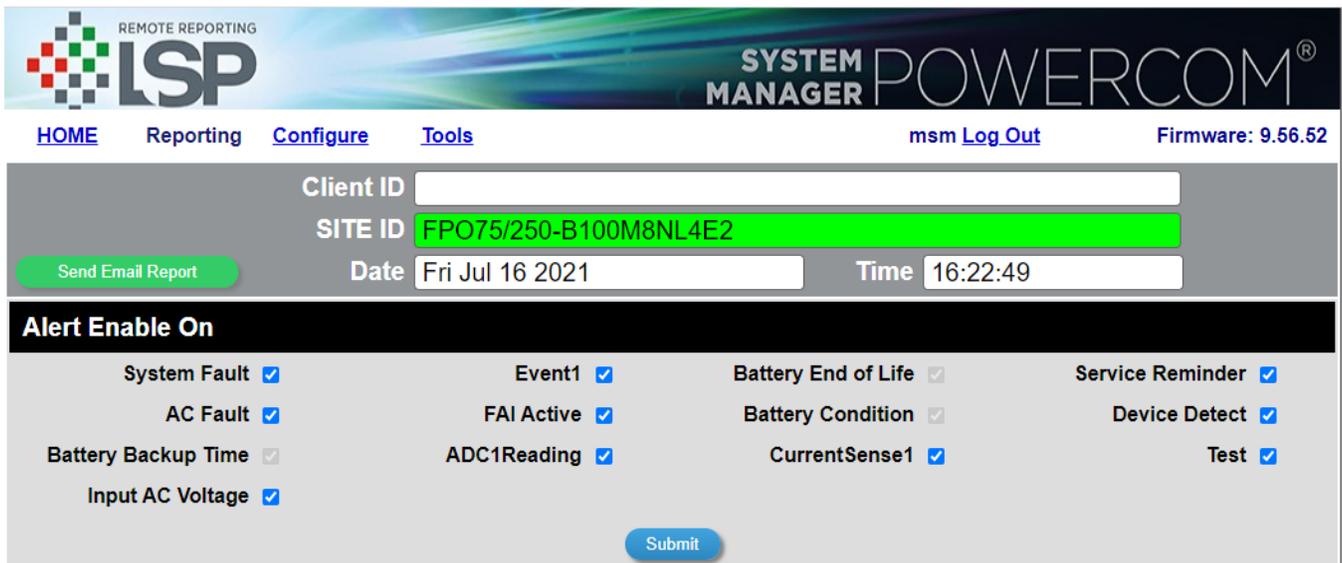


CONFIGURING THE REPORTS

The NetLink provides a comprehensive list of items to include or exclude from the event log. To select and configure the reported items for the NetLink, navigate to the "Reporting" page of the network interface. This is also where the number of history events to include in the emailed report may be set. In addition, high and low limits, service dates, and other parameters may be configured on the "Configure" page of the Netlink. If an M8 board is present, the M8 parameters are programmable in the M8's configure page.

In order for emailed reports to be sent, the email section on the Configure page needs to be properly set up. The email setup section is where the frequency of periodic status report emails can be set.

Refer to the NetLink manual for detailed information on configuring all of the above settings.



REMOTE REPORTING
LSP SYSTEM MANAGER POWERCOM®

[HOME](#) [Reporting](#) [Configure](#) [Tools](#) [msm Log Out](#) [Firmware: 9.56.52](#)

Client ID
 SITE ID **FPO75/250-B100M8NL4E2**
 Send Email Report Date Time

Alert Enable On

System Fault <input checked="" type="checkbox"/>	Event1 <input checked="" type="checkbox"/>	Battery End of Life <input checked="" type="checkbox"/>	Service Reminder <input checked="" type="checkbox"/>
AC Fault <input checked="" type="checkbox"/>	FAI Active <input checked="" type="checkbox"/>	Battery Condition <input checked="" type="checkbox"/>	Device Detect <input checked="" type="checkbox"/>
Battery Backup Time <input type="checkbox"/>	ADC1Reading <input checked="" type="checkbox"/>	CurrentSense1 <input checked="" type="checkbox"/>	Test <input checked="" type="checkbox"/>
Input AC Voltage <input checked="" type="checkbox"/>			

BREAKING DOWN THE REPORTS

Once a report is received, either via email or manual creation, it may be opened in Microsoft Excel or other spreadsheet software that accepts CSV files. When opened, the report will appear as shown below:

Site ID	FPO75/150-DS8M8L4E2											
Report trigger	Beyond the Room Ten Room Temperature upper limit is 100.00 Deg.F											
Service due	no											
Device name	Device parameter	Fri Mar 11 2016 14:21:26	Fri Mar 11 2016 14:21:01	Fri Mar 11 2016 14:16:00	Fri Mar 11 2016 14:11:01	Fri Mar 11 2016 14:06:00	Fri Mar 11 2016 14:01:00	Fri Mar 11 2016 13:41:01				
Netlink	Status	Beyond the Room Temperature	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal		
Netlink	Enclosure	Room Temperature (Deg F)	112.67	112.67	112.67	111.79	111.79	111.79	110.91	110.91	110.91	110.04
Netlink	Room Ter	Room Temperature (Deg F)	100.36	99.48	95.08	94.2	91.56	87.16	83.64	81	79.24	79.24
Netlink	12V Batterie	12V Battery Current (Amps)	-0.15	-0.15	-0.15	-0.15	-0.2	-0.15	-0.15	-0.15	-0.15	-0.2
Netlink	Total 12V	Total 12V Current (Amps)	-0.1	-0.1	-0.05	-0.1	-0.1	-0.1	-0.1	-0.05	-0.05	-0.05
Netlink	B100 Out	B100 Output (V) (Volts)	9.06	9.03	9.03	9.03	9.03	9.03	9.03	9.03	9.03	9.03
Netlink	Tamper S	Tamper Switch	Inactive	Inactive	Inactive	Inactive	Inactive	Inactive	Inactive	Inactive	Inactive	Inactive
FP1	Model number	FPO150-1	FPO150-1	FPO150-1	FPO150-1	FPO150-1	FPO150-1	FPO150-1	FPO150-1	FPO150-1	FPO150-1	FPO150-100
FP1	System fault status	System fault status	No	No	No	No	No	No	No	No	No	No
FP1	AC fault status	AC fault status	No	No	No	No	No	No	No	No	No	No
FP1	FAI status	FAI status	Inactive	Inactive	Inactive	Inactive	Inactive	Inactive	Inactive	Inactive	Inactive	Inactive
FP1	Output latching on FAI	Output latching on FAI	Inactive	Inactive	Inactive	Inactive	Inactive	Inactive	Inactive	Inactive	Inactive	Inactive
FP1	Output voltage	Output voltage (Volts)	12.61	12.61	12.61	12.61	12.61	12.61	12.61	12.61	12.61	12.61
FP1	Battery voltage	Battery voltage (Volts)	13.84	13.81	13.81	13.81	13.84	13.84	13.81	13.81	13.81	13.84
FP1	Battery charger current	Battery charger current (Amps)	0	0	0	0	0	0	-0.01	-0.01	0	0
FP1	Total power-up time	Total power-up time (Hours)	6219	6219	6219	6219	6219	6219	6219	6219	6219	6219
FP1	Battery installed time	Battery installed time (Hours)	172	172	172	172	172	172	172	172	172	172
FP1	# of AC faults detected	# of AC faults detected	124	124	124	124	124	124	124	124	124	124
FP1	# of system faults detected	# of system faults detected	100	100	100	100	100	100	100	100	100	100
FP1	Battery State of charge	Battery State of charge	100	100	100	100	100	100	100	100	100	100
FP2	Model number	FPO75	FPO75	FPO75	FPO75	FPO75	FPO75	FPO75	FPO75	FPO75	FPO75	FPO75
FP2	System fault status	System fault status	No	No	No	No	No	No	No	No	No	No
FP2	AC fault status	AC fault status	No	No	No	No	No	No	No	No	No	No
FP2	FAI status	FAI status	Inactive	Inactive	Inactive	Inactive	Inactive	Inactive	Inactive	Inactive	Inactive	Inactive
FP2	Output latching on FAI	Output latching on FAI	Inactive	Inactive	Inactive	Inactive	Inactive	Inactive	Inactive	Inactive	Inactive	Inactive
FP2	Output voltage	Output voltage (Volts)	25.31	25.28	25.31	25.31	25.31	25.31	25.28	25.28	25.31	25.31
FP2	Battery voltage	Battery voltage (Volts)	0.32	0.32	0.32	0.32	0.32	0.29	0.32	0.29	0.32	0.32
FP2	Battery charger current	Battery charger current (Amps)	0	0	0	0	0	0	0	0	0	0
FP2	Total power-up time	Total power-up time (Hours)	14498	14498	14498	14497	14497	14497	14497	14497	14497	14497
FP2	Battery installed time	Battery installed time (Hours)	2049	2049	2049	2049	2049	2049	2049	2049	2049	2049
FP2	# of AC faults detected	# of AC faults detected	70	70	70	70	70	70	70	70	70	70
FP2	# of system faults detected	# of system faults detected	89	89	89	89	89	89	89	89	89	89
FP2	Battery State of charge	Battery State of charge	0	0	0	0	0	0	0	0	0	0
M8-1	ZoneDescription	ZoneDescription										
M8-1	Voltage(V)	Voltage(V)	0	0	0	0	0	0	0	0	0	0
M8-1	Current(A)	Current(A)	0	0	0	0	0	0	0	0	0	0
M8-1	Power	Power	0	0	0	0	0	0	0	0	0	0
M8-1	PowerReady	PowerReady	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

With some quick reformatting, we can make the report more readable.

Site ID	FPO75/150-DS8M8L4E2						
Report trigger	Netlink and the Room Temperature upper room Temperature is 100.36 Deg. Temperature upper limit is 100.00 Deg.F						
Service due	no						
Device name	Device parameter	Fri Mar 11 2016 14:21:26	Fri Mar 11 2016 14:21:01	Fri Mar 11 2016 14:16:00	Fri Mar 11 2016 14:11:01	Fri Mar 11 2016 14:06:00	Fri Mar 11 2016 14:01:00
Netlink	Status	nd the Room Temperature upper	Normal	Normal	Normal	Normal	Normal
Netlink	Enclosure	Room Temperature (Deg F)	112.67	112.67	112.67	111.79	111.79
Netlink	Room Temperature	Room Temperature (Deg F)	100.36	99.48	95.08	94.2	91.56
Netlink	12V Batterie	12V Battery Current (Amps)	-0.15	-0.15	-0.15	-0.15	-0.2
Netlink	Total 12V	Total 12V Current (Amps)	-0.1	-0.1	-0.05	-0.1	-0.1
Netlink	B100 Out	B100 Output (V) (Volts)	9.06	9.03	9.03	9.03	9.03
Netlink	Tamper Switch	Tamper Switch	Inactive	Inactive	Inactive	Inactive	Inactive
FP1	Model number	FPO150-100	FPO150-100	FPO150-100	FPO150-100	FPO150-100	FPO150-100
FP1	System fault status	System fault status	No	No	No	No	No
FP1	AC fault status	AC fault status	No	No	No	No	No
FP1	FAI status	FAI status	Inactive	Inactive	Inactive	Inactive	Inactive
FP1	Output latching on FAI	Output latching on FAI	Inactive	Inactive	Inactive	Inactive	Inactive
FP1	Output voltage	Output voltage (Volts)	12.61	12.61	12.61	12.61	12.61
FP1	Battery voltage	Battery voltage (Volts)	13.84	13.81	13.81	13.84	13.84
FP1	Battery charger current	Battery charger current (Amps)	0	0	0	0	0
FP1	Total power-up time	Total power-up time (Hours)	6219	6219	6219	6219	6219
FP1	Battery installed time	Battery installed time (Hours)	172	172	172	172	172
FP1	# of AC faults detected	# of AC faults detected	124	124	124	124	124
FP1	# of system faults detected	# of system faults detected	100	100	100	100	100
FP1	Battery State of charge	Battery State of charge	100	100	100	100	100
FP2	Model number	FPO75	FPO75	FPO75	FPO75	FPO75	FPO75
FP2	System fault status	System fault status	No	No	No	No	No
FP2	AC fault status	AC fault status	No	No	No	No	No
FP2	FAI status	FAI status	Inactive	Inactive	Inactive	Inactive	Inactive
FP2	Output latching on FAI	Output latching on FAI	Inactive	Inactive	Inactive	Inactive	Inactive
FP2	Output voltage	Output voltage (Volts)	25.31	25.28	25.31	25.31	25.31
FP2	Battery voltage	Battery voltage (Volts)	0.32	0.32	0.32	0.32	0.32
FP2	Battery charger current	Battery charger current (Amps)	0	0	0	0	0
FP2	Total power-up time	Total power-up time (Hours)	14498	14498	14498	14497	14497
FP2	Battery installed time	Battery installed time (Hours)	2049	2049	2049	2049	2049
FP2	# of AC faults detected	# of AC faults detected	70	70	70	70	70
FP2	# of system faults detected	# of system faults detected	89	89	89	89	89
FP2	Battery State of charge	Battery State of charge	0	0	0	0	0
M8-1	ZoneDescription	ZoneDescription					
M8-1	Voltage(V)	Voltage(V)	0	0	0	0	0
M8-1	Current(A)	Current(A)	0	0	0	0	0
M8-1	Power	Power	0	0	0	0	0
M8-1	PowerReady	PowerReady	Yes	Yes	Yes	Yes	Yes

BREAKING DOWN THE REPORTS

Site ID

The Top of the report shows the Site ID of the NetLink board, which is FPO75/150-D8M8NL4E2 in this example. This ID is set by the user in the NetLink's Configure page.

Trigger Information

If the report was sent due to a trigger condition (fault, service due, time period, etc) there will be some information regarding the condition to cause the report to be sent. These conditions are selected in the Reporting page of the NetLink. If the report was manually created and exported from the NetLink's interface, this section will not be present.

	A	B	C	D
1	Site ID	FPO75/150-D8M8NL4E2		
2				
3	Report trigger: Netlink	Beyond the Room Temperature upper limit	Room Temperature is 100.36 Deg.F	Room Temperature upper limit is 100.00 Deg.F
4				
5				
6				
7	Service due	no		
8				

In this example, the report was sent because the NetLink detected that the Room Temperature (using the external temperature sensor of the NL4) was above the upper limit setting of 100 degrees F. This could indicate that the air conditioning in the room has failed, a thermostat has malfunctioned, or some other problem.

This information will vary, depending on the cause for the report being sent. For example "Report Period" would appear when the periodic report is sent - this period is set in the Email Settings section of the Configure page of the NetLink.

You can also see in this example that the Service Due date has not been passed.

History Data

Below the Site ID and Trigger Information sections is the data captured by the NetLink during the periodic snapshots and any trigger conditions which occur.

	Device name	Device parameter	Fri Mar 11 2016 14:21:26	Fri Mar 11 2016 14:21:01	Fri Mar 11 2016 14:16:00	Fri Mar 11 2016 14:11:01	Fri Mar 11 2016 14:06:00	Fri Mar 11 2016 14:01:00
9								
10	Netlink	Status	Normal	Normal	Normal	Normal	Normal	Normal
11	Netlink	Enclosure temperature (Deg.F)	112.67	112.67	112.67	111.79	111.79	111.79
12	Netlink	Room Temperature (Deg.F)	100.36	99.48	95.08	94.2	91.56	87.16
13	Netlink	12V Battery Current (Amps)	-0.15	-0.15	-0.15	-0.15	-0.2	-0.15
14	Netlink	Total 12V Current (Amps)	-0.1	-0.1	-0.05	-0.1	-0.1	-0.1
15	Netlink	B100 Output (9V) (Volts)	9.06	9.03	9.03	9.03	9.03	9.03
16	Netlink	Tamper Switch	Inactive	Inactive	Inactive	Inactive	Inactive	Inactive
17								
18	FP1	Model number	FPO150-100	FPO150-100	FPO150-100	FPO150-100	FPO150-100	FPO150-100
19	FP1	System fault status	No	No	No	No	No	No
20	FP1	AC fault status	No	No	No	No	No	No
21	FP1	FAI status	Inactive	Inactive	Inactive	Inactive	Inactive	Inactive
22	FP1	Output latching on FAI	Inactive	Inactive	Inactive	Inactive	Inactive	Inactive
23	FP1	Output voltage (Volts)	12.61	12.61	12.61	12.61	12.61	12.61
24	FP1	Battery voltage (Volts)	13.84	13.81	13.81	13.81	13.84	13.84
25	FP1	Battery charger current (Amps)	0	0	0	0	0	0
26	FP1	Total power-up time (Hours)	6219	6219	6219	6219	6219	6219
27	FP1	Battery installed time (Hours)	172	172	172	172	172	172
28	FP1	# of AC faults detected	124	124	124	124	124	124
29	FP1	# of system faults detected	100	100	100	100	100	100
30	FP1	Battery State of charge	100	100	100	100	100	100
31								
32	FP2	Model number	FPO75	FPO75	FPO75	FPO75	FPO75	FPO75
33	FP2	System fault status	No	No	No	No	No	No
34	FP2	AC fault status	No	No	No	No	No	No
35								

The heading for this section consists of the following:

Device Name - This is the device that each parameter belongs to. Data under this heading can be Netlink, FP1, FP2, M8-1, M8-2, etc. Only the devices present and enabled in the Reporting page of the NetLink will be present here.

Device Parameter - These are the parameters for the associated device. In the above example, the NetLink is showing five monitored parameters - Status, Enclosure Temperature, Room Temperature, 12V Battery Current, Total 12V current, B100 Output, and Tamper Switch.

Date and Time - These are the dates and times of the snapshots taken by the NetLink. The information under these dates and times are the parameters measured by the NetLink. Look at the Device Name and Device Parameter columns to match the data with the parameter.

HOW TO USE THE DATA

Once the report is in Excel or other spreadsheet software, data can be formatted, graphed, etc. to gain the most information. For example, by applying conditional formatting to the NetLink Status row, the fields could be color coded to turn Yellow or Green based on the status. Voltage, current, temperature, etc can be plotted on a graph to more easily spot problems or trends. Once formatted, the sheet can be saved as a template and used again by pasting in new data when the next report is received. However, in order for this to work properly, the report will need to contain the same information every time it is run. If the reported items are changed on the NetLink's Reporting page, the template would need to be adjusted.

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