

Recommendations

In order to get best performance from VESDAnet networks the following parameter settings are recommended.

Parameter	Value	Notes
Minimum Interval	10 seconds	<ul style="list-style-type: none"> Minimum Interval between Head Status messages. Set to max value of 10 seconds.
Significant Change	Depends on environment. Should set significantly higher than normal fluctuation in background smoke level.	<ul style="list-style-type: none"> Parameter sets the difference in smoke level before a new Head Status message is sent. Should set to a significantly higher value than normal fluctuation of smoke level in environment in order to prevent regular outputting of Head Status Messages at interval of "Minimum Interval" (10 sec). It is better if, under normal conditions, the node outputs a new Head Status message every "Health Check Period" which is recommended as 45-60 sec.
Network Delay	45 seconds	<ul style="list-style-type: none"> Time to wait for message to come back on other VESDAnet net port. Time between resends of messages. Set to max value of 45 sec.
Health Check Period	45 –60 sec	<ul style="list-style-type: none"> Time between Health Check messages for displays and Head Status messages for Detectors. Set random values for each device in range 45 – 60 seconds. Ideally have even distribution of values on devices on network. I.e in 250 node network. 16 devices have 45 sec, 16 devices have 46 sec, 16 devices have 60 sec etc. This proposal is expected to give better performance because it will even out the traffic.
Preferred Port	A or B	<ul style="list-style-type: none"> Set this randomly. I.e half the devices should have preferred port A, Half B.

Recommend: Remove HLI from network when not configuring or use the HLI with Dallas processor.

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