

# Tech Note 1020 - Recording Diagnostic Logging

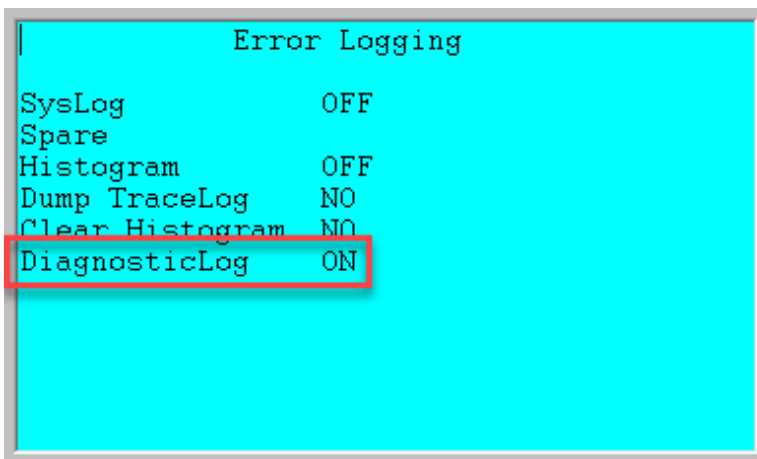
## Scout 85.2 and above

- **Description:**

This feature is designed to enable the controller to capture logs 20 seconds prior to MMU flash activation. These logs can then be transferred to CUBIC Support for a diagnosis of the fault.

- **Implementation:**

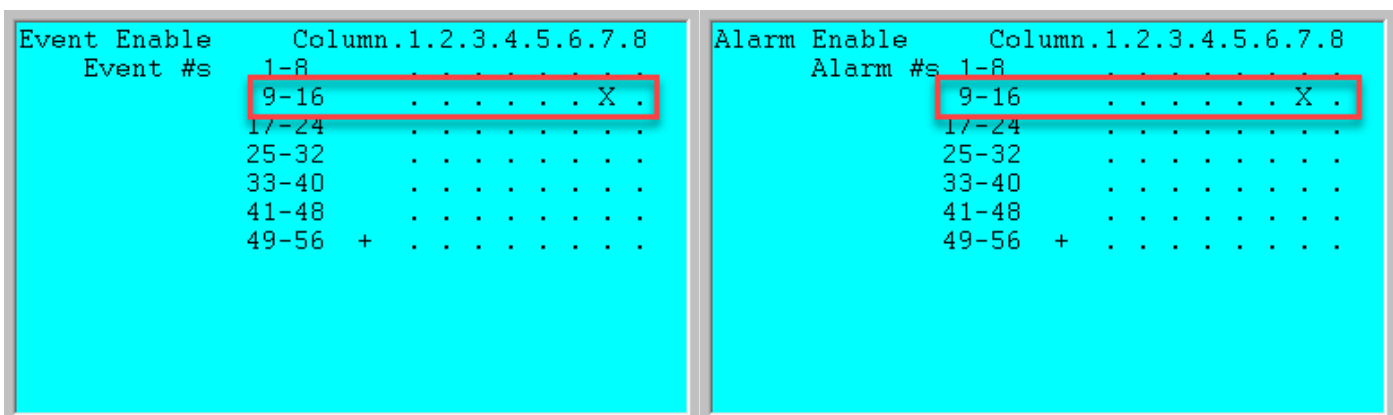
To enable this feature, go to MM-8-8-5. Toggle "DiagnosticLog" to "ON."



Once "DiagnosticLog" is enabled, the controller will maintain a current 20 second log triggered to write to memory upon MMU flash activation (Alarm 15).

**NOTE:** These logs will be overwritten every time the MMU flash is activated!

Alarm/Event #15 must be enabled via MM-1-6-1 and 1-6-4



With recorded log on controller, insert a USB and go to MM-8-8-8. Press enter and the logs will then be copied onto the USB.

```
Backup Log files To USB
WARNING: The current USB log files will
         be overwritten.          #
ENT-Continue  ESC/BAK-Return
```

Extract the file named “diag\_log.dat” and send it to CUBIC Support for decoding.

Name	Date modified	Type	Size
diag_log.dat	5/17/2023 7:43 PM	DAT File	2,034 KB
install.log	12/13/2022 6:21 AM	Text Document	1 KB
sysmem_log.dat	5/17/2023 7:43 PM	DAT File	965 KB
TRAF_00000_2022_12_27_0100.dat	12/27/2022 1:54 AM	DAT File	1 KB

- **TS1/Caltrans Implementation:**

To enable this feature when an MMU is not present you must redirect alarm #15 to Input Function #206-Cab Flash. (Other Input functions could be used, just an Input that goes active when monitor latches a fault.)

**NOTE:** Input can be seen in MM-1-9-7-1.

```
206  Inputs          Outputs
Ecn Description Stat Description Stat
206 Cab Flash ---- PrIntStat 6 ----
207 Comp Stopim ---- PrIntStat 7 ----
208 Local Flash ---- Reserved ----
209 TBC Input ---- Reserved ----
210 Dim Enable ---- Reserved ----
211 Auto Flash ---- TrainOnWay1 ----
```

To do this go to MM-1-6-7-2 and set Alarm #15 to be equal to Input #206.

Idx	Alm#	Function
1	15	= I 206
2	0	= I 0
3	0	= I 0
4	0	= I 0
5	0	= I 0
6	#	= I 0
7+	0	= I 0

**NOTE:** This must be done for diagnostic logs to be capture on a TS1 or Caltrans cabinet.