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TecNote 1002 - Controller Overview Status Screen

Controller	Monitor	Cabinet	System
TIMING	OK	OK	OFFLIN
FREE			

The purpose of this TecNote is to explain the different parameters of the overview screen as displayed on a TS1, TS2, 2070 or ATC controller. This screen can be viewed by going to MM->7->9->5 on any controller.

Overview screen Layout

Controller	Monitor	Cabinet	System
1st Line			
2nd Line			
3rd line			

The controller overview status screen is laid out above. There are four sections separated by vertical lines. Each section displays status about a different aspect of the controller or cabinet. Within each section are up to three lines where status may be displayed. The status is presented from general to specific, with the most general appearing in the first line and least on the third.

This screen is a excellent aid in troubleshooting the source of a fault or in reconstructing the order in which faults occurred in a TS2 cabinet. TS2 differs from earlier cabinet systems in that both the controller and the MMU are monitoring for proper operation. If either detects a fault, it can cause the cabinet to flash. The monitor controls flashing though In some instances, a fault by the controller causes one in the monitor as well. Knowing which detected a fault first can be key to understanding why the cabinet is flashing.

The following screens below show the possible status indications for each line of the four sections. One table is provided for each section. An indented outline approach shows first line status indications in the leftmost position. Second line indications are indented once; third line indented twice. The tables are hierarchical such that indications on lines two and three are shown only under the higher indications to which they apply.

For example, CRIT-SDLC will only be found on line three when lines 1 and 2 show FLASH-xx and FAULT respectively. The indentation levels are shown below.

1st Line**2nd Line****3rd Line**

Controller Status

The Controller section displays general operating status about the controller such as timing, flashing or turned off. More information is presented on lines two and three. For example, if the controller is flashing, the reason is presented on the lower lines.

OFF	Run timer is OFF
FLASH-LS	Load Switch Flash
FLASH-CVM	Controller Voltage Monitor Flash

[the following apply to LS and CVM Flash]

STARTUP

STARTUP FLASH/ALL RED When the controller is timing the Startup Flash an/or All-Red startup interval, the time remaining (in seconds) is displayed in the first column on the default overview status screen. This status is updated in real-time.

AUTOMATIC

PREEMPT

FAULT

CRIT SDLC

MMU PERM

MMU FIELD

PROCESSOR FAULT Controller has a CPU fault or has multiple power failures in a 24 hour period

SDLC DEV SDLC comm Not established with all devices

When the controller fails to start running due to an initial ring/phase error, the following codes may be shown in the Controller column of the Overview Status Screen. These codes provide general information about the reason for the failure. Multiple, closely related types of initialization errors may share the same code.

INIT ERR

INIT ERR1 Two phases in one ring are set to be active at startup

INIT ERR2 One phase does not have a proper initial entry

INIT ERR3 “Yellow Next” phase is not in ring sequence

INIT ERR4 Initialization phases are not compatible with “yellow next” phase

INIT ERR5 Compatible phases in a group do not reference each other

INIT ERR6 Ring sequence does not agree with ring assignment in phase programming

SEQ TRANS Error in transitioning to a new sequence that places a phase in a different ring

RESTART The controller restarts unexpectedly.

TIMING

FREE Timing Free

COORD Coordination active

STOP-TIME

INPUT Stop time input for ring 1 or ring 2

MAN-CNTRL Manual Control Enable Input

Cabinet Status

The Cabinet section of the screen displays status of the cabinet as determined by the controller through its inputs and outputs, or through the terminal and facilities (loadbay) BIUs. This section shows if the cabinet is on flash due to police or maintenance switches, or due to the MMU.

OK Normal Operation

FLASH

LOCAL Police/Maintenance switch flash

MMU MMU flash

NO DATA SDLC comm not operating to T&F BIUs

Monitor (MMU) Status

The Monitor (MMU) status display shows status of the MMU and cabinet as reported to the controller by the MMU over the SDLC channel. The monitor reports normal or fault status and, if in fault, why.

OK Normal Operation

FAULT MMU Fault Reported

CVM/FltMon Controller CVM or Fault Monitor

24V-I 24VDC #1

24V-II 24VDC #2

CONFLICT

RED-FAIL

PORT 1

CLEARANCE

DIAGNOSTIC

FIELD CHK Field Check

RESET Reset Button or Input is active

NO DATA SDLC comm to MMU is not active

System Status

The System portion of the display gives the status of control by an on-street master or central system. Indications include online, offline, or fallback to time-of-day scheduler.

OFFLINE System Coordination Disabled

FALLBACK Fallback to Time-based due to loss of System Comm

ON-LINE System Coordination Enabled and System Comm OK

Summary

The overview screen has different parameters for a TS1, TS2, 2070 or ATC controller. This screen can be viewed by going to MM->7->9->5 on any controller or by typing ALT-FCN, 9.
