EOS BASIC

Self Study

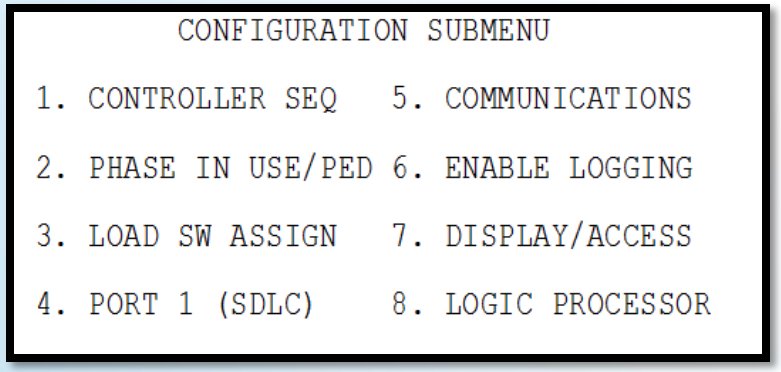
1. CONFIGURATION

ECONOLITE

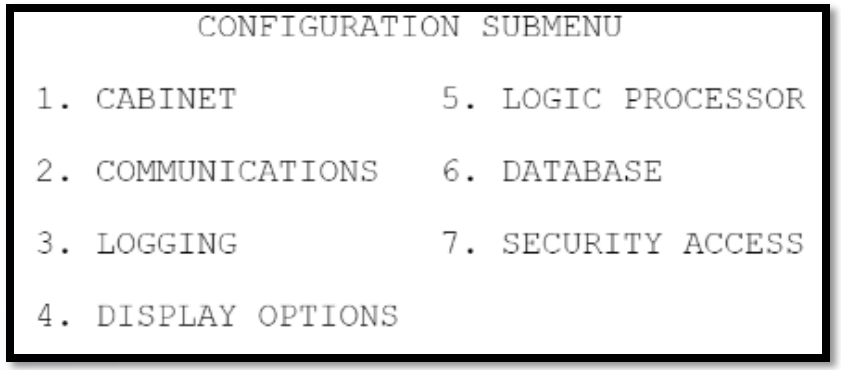
Saving Lives Through Improved Mobility

MM-1 Configuration Submenu

ASC3



EOS



- Some of the menu items have changed in EOS.

EOS Cabinet Settings

MM-1-1

ECONOLITE

Saving Lives Through Improved Mobility

MM 1-1 Cabinet Settings

MM 1-1

```
CABINET SETTINGS SUBMENU
  1. CABINET TYPE
  2. LOAD SWITCH
  3. COLOR CHECK ENABLE
  4. MONITOR PROGRAMMING
  5. CABINET MAPPING
  6. SECONDARY STATION
```

MM 1-1-1

```
       CABINET TYPE [TS2-1    ]

                          1234
 BIU TERMINAL & FACILITY  ....
 BIU DETECTOR             ....

 ENABLE SDLC STOP TIME              NO
 LATCH 3 CRITICAL ERRORS            NO
MMU TO CU SDLC EXTERNAL START   YES
IGNORE SDLC FRAME ERRORS (DIAG) YES
```

CABINET TYPES

- TS1
- TS2-1
- TS2-2
- ATCC-16
- ATCC-32
- ITS-14/6
- 33x

*IGNORE SDLC FRAME ERRORS (DIAG) to run a controller without MMU; ‘0’ for RFE at MM-7-7-2

MM 1-1-1 Cabinet Type

```
          CABINET [TS1     ]

                      1234
        BIU DETECTOR 1...

 IGNORE SDLC FRAME ERRORS (DIAG)  YES
 CONTROLLER PLATFORM TYPE      COBALT
 I/O MODE                           0
```

```
          CABINET [TS2-2   ]

                      1234
        BIU DETECTOR 1...

 ENABLE SDLC STOP TIME             NO
 LATCH 3 CRITICAL ERRORS          YES
 MMU TO CU SDLC EXTERNAL START    YES
 IGNORE SDLC FRAME ERRORS (DIAG)  YES
 CONTROLLER PLATFORM TYPE      COBALT
 I/O MODE                           0
```

```
          CABINET [TS2-1   ]

                         1234
 BIU TERMINAL & FACILITY 12..
 BIU DETECTOR            1...
 CRITICAL BIU            ....

 ENABLE SDLC STOP TIME             NO
 LATCH 3 CRITICAL ERRORS          YES
 MMU TO CU SDLC EXTERNAL START    YES
 IGNORE SDLC FRAME ERRORS (DIAG)  YES
```

```
          CABINET [ATCC-16 ]

          CABINET [ATCC-32 ]

             12345                1234
SIU DETECTOR 12...  BIU DETECTOR 1...
CRITICAL SIU .....  CRITICAL BIU ....

 ENABLE SDLC STOP TIME             NO
 LATCH 3 CRITICAL ERRORS          YES
 IGNORE SDLC FRAME ERRORS (DIAG)  YES
 EXTENDED COMMUNICATIONS      DEFAULT
```

```
          CABINET [33x     ]

                      1234
          BIU DETECTOR 1...
          CRITICAL BIU ....

 IGNORE SDLC FRAME ERRORS (DIAG)  YES
```

```
          CABINET [ITS     ]

  SWITCH PACK LOADSWITCH     14x6

             12345                1234
SIU DETECTOR 12...  BIU DETECTOR 1...
CRITICAL SIU .....  CRITICAL BIU ....

 ENABLE SDLC STOP TIME             NO
 LATCH 3 CRITICAL ERRORS          YES
 IGNORE SDLC FRAME ERRORS (DIAG)  YES
```

MM 1-1-1 Cabinet Type

HELP CONTENT

EOS Controller Software

CABINET TYPE SELECTION

Select the type of cabinet environment in which EOS will be running. Changing this setting requires a power restart. CABINET MAPPING and LOAD SWITCH assignments will also need to be reconfigured in most cases.

33X: TEES 332 Cabinet with 16 output channels and one BIU.
TS1: NEMA TS1 Cabinet with 12 output channels.
TS2-1: NEMA TS2 Type 1 Cabinet with 16 output channels and two BIUs.
TS2-2: NEMA TS2 Type 2 Cabinet wit..1/2

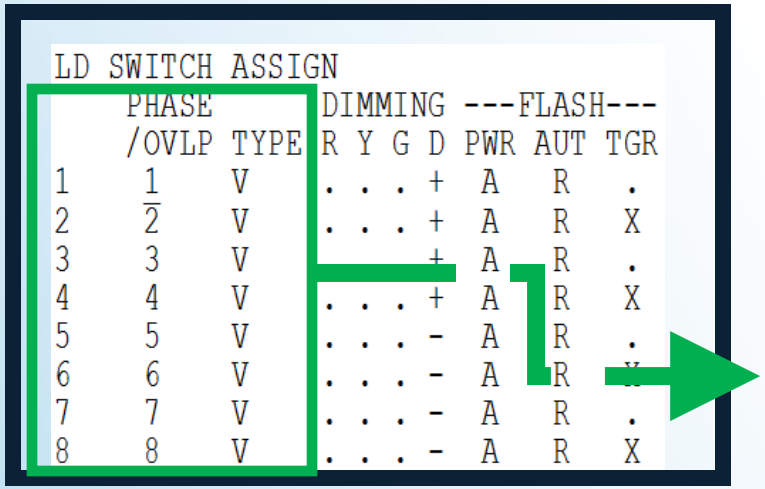
EOS Controller Software

output channels and one BIU.
ATCC-16: ATC Cabinet with one output SIU providing a total of 16 output channels.
ATCC-32: ATC Cabinet with two output SIUs providing a total of 32 output channels.
ITS 14/6: ITSv1 Cabinet with a variable set of output channels based on the SWITCH PACK LOAD SWITCH configuration.

2/2

MM 1-1-2 Load Switch

The ASC3 LS Assignment is at MM 1-3



```
LD SWITCH ASSIGN
     PHASE          DIMMING ---FLASH---
     /OVLP TYPE  R Y G D PWR AUT TGR
1     1    V     . . . +  A   R   .
2     2    V     . . . +  A   R   X
3     3    V         +  A   R   .
4     4    V     . . . +  A   R   X
5     5    V     . . . -  A   R   .
6     6    V     . . . -  A   R   X
7     7    V     . . . -  A   R   .
8     8    V     . . . -  A   R   X
```

EOS MM 1-1-2

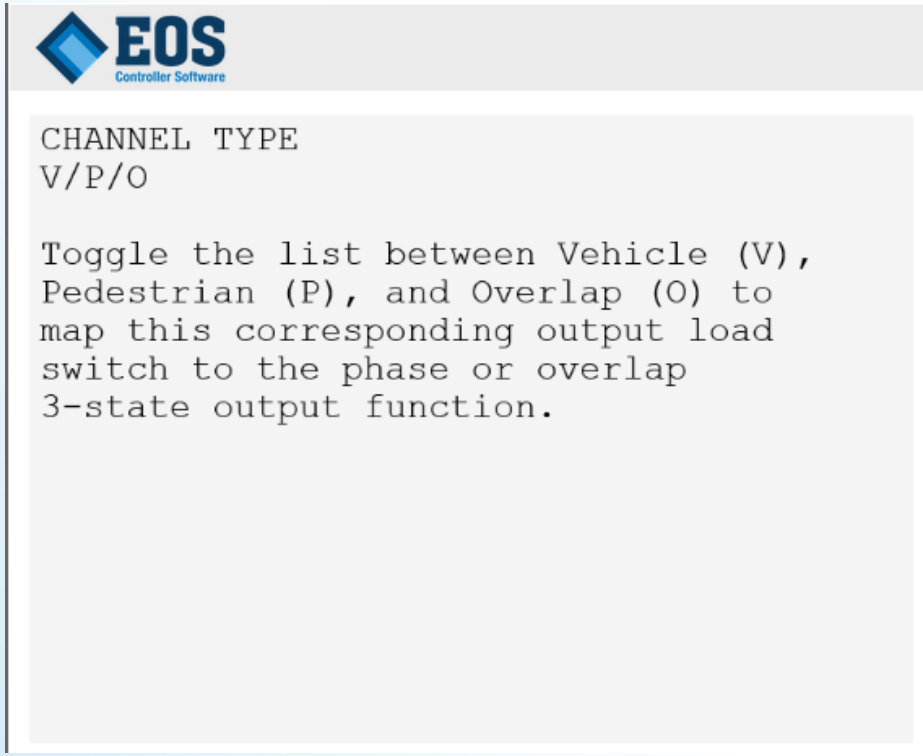
```
        LOAD SWITCH CONFIGURATION
     CHANNELS   1  2  3  4  5  6  7  8
CHANNEL TYPE    V  V  V  V  V  V  V  V
PHASE / OVLP    1  2  3  4  5  6  7  8

     CHANNELS   9 10 11 12 13 14 15 16
CHANNEL TYPE    P  P  P  P  O  O  O  O
PHASE / OVLP    2  4  6  8  1  2  3  4
```

- In ASC3 [LD SWITCH ASSIGN PHASE] is at MM 1-3
- In EOS [Load Switch Configuration] is at MM 1-1-2

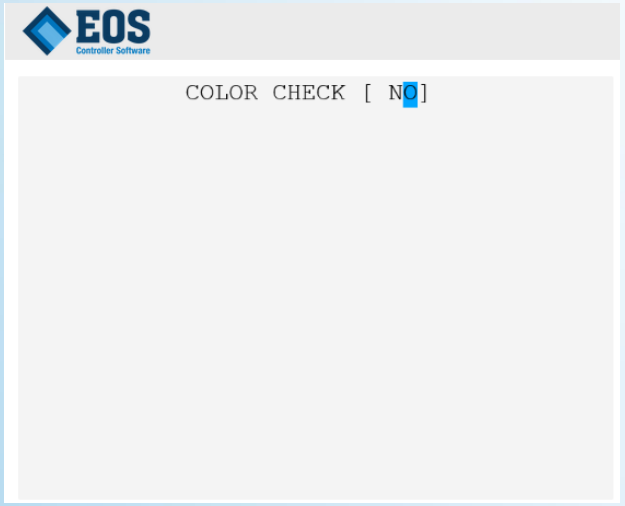
MM 1-1-2 Load Switch

HELP CONTENT

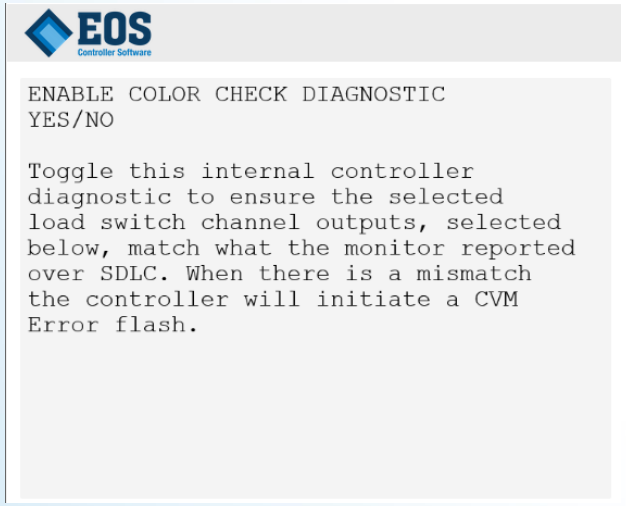


MM-1-1-3 COLOR CHECK ENABLE

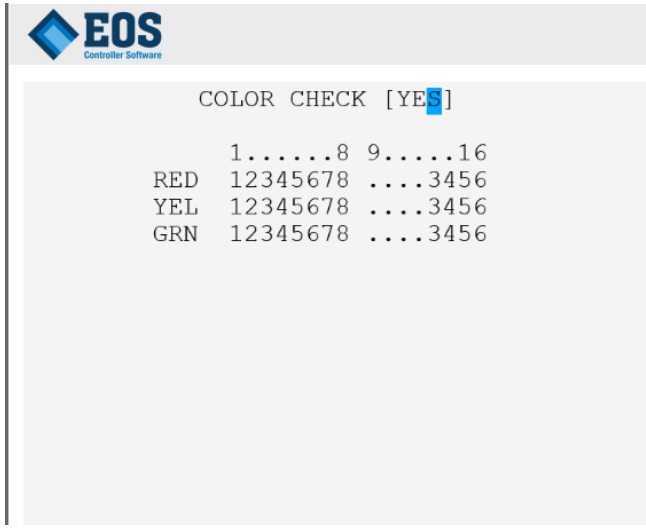
Color Check is set to NO (disabled) by default



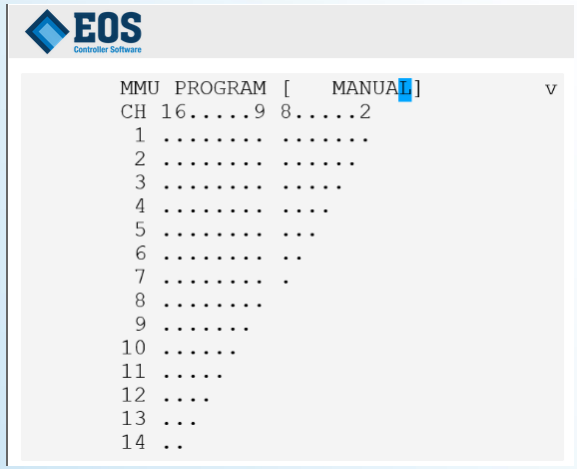
Help Content



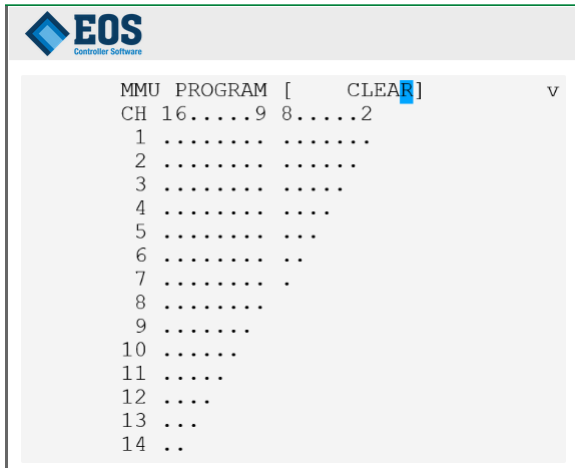
Color check is set by number toggle vs. ‘x’ to enable



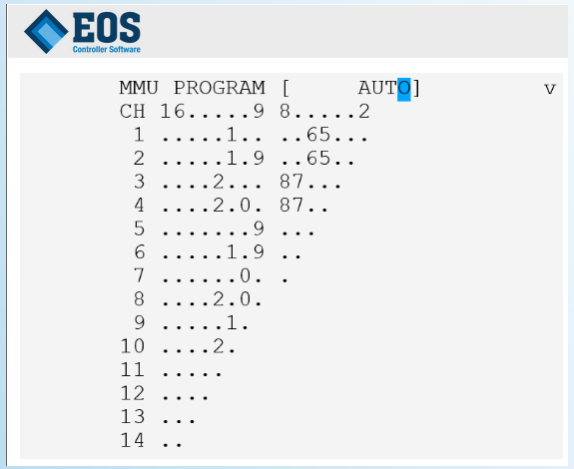
MM-1-1-4 MMU PROGRAM



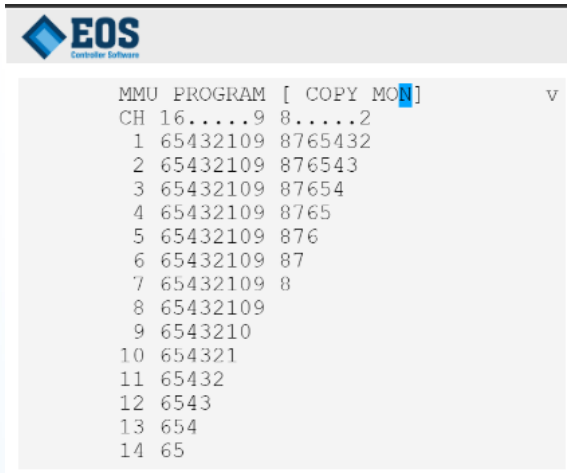
MANUAL = You can choose the channels



CLEAR = Clears all channels



AUTO = Looks at programming and LDSW Assign and Auto assigns channels for programming



COPY MON = Copies the permissive channels programmed on the Program Card

IF you do a COPY MON during normal operation it will put the intersection into flash

MM-1-1-4 MMU PROGRAM

HELP CONTENT

EOS Controller Software

```
MMU COMPATIBILITY   Econolite Feature
Range: MANUAL, AUTO, CLEAR, COPY MON


Toggle to select MANUAL, AUTO, CLEAR,
COPY MON. The selection is acted on
when you press ENTER, provided the MMU
/CMU is enabled. The compatibility array
will be referred to as "array" in the
text that follows.

            **** CAUTION ****
The first data entry in MANUAL mode will
likely place the cabinet in CVM FLASH.
Programming of this feature should NOT
be done in a live intersection. If ..1/3
```

EOS Controller Software

```
must make field changes, place the
cabinet in LOCAL FLASH first.

MANUAL - The array is manually program-
med by the user.

AUTO - The array is automatically pro-
grammed based on phases in use, phase
concurrency, valid pedestrian movements,
vehicle and pedestrian overlaps, and
pedestrian carryover programming. Users
cannot update the compatibility array.

CLEAR - The array is cleared to zero.
This field is then set to MANUAL, which
disables the feature.                2/3
```

EOS Controller Software

```
COPY MON - The contents of the MMU/CMU
Program Card is copied to the array.
This field is then set to MANUAL. This
feature is disabled if the MMU/CMU
Program card is unprogrammed.

                                     3/3
```

MM 1-1-5 Cabinet Mapping

TS1

```
        INPUT OUTPUT REMAPPING          v
DEVICE SELECTION [     A CONNECTOR]
  PIN      I/O DESCRIPTION     NUM DFLT
OUTPUT 01 OUT LS RED DW         1   YES
OUTPUT 02 OUT LS YELLOW PC      1   YES
OUTPUT 03 OUT LS GREEN WALK     1   YES
OUTPUT 04 OUT LS RED DW         2   YES
OUTPUT 05 OUT LS YELLOW PC      2   YES
```

33x

```
        INPUT OUTPUT REMAPPING          v
DEVICE SELECTION [    C1/C11 INPUT]
  PIN      I/O DESCRIPTION     NUM DFLT
OUTPUT 01 OUT LS RED DW         1   YES
OUTPUT 02 OUT LS YELLOW PC      1   YES
OUTPUT 03 OUT LS GREEN WALK     1   YES
OUTPUT 04 OUT LS RED DW         2   YES
OUTPUT 05 OUT LS YELLOW PC      2   YES
```

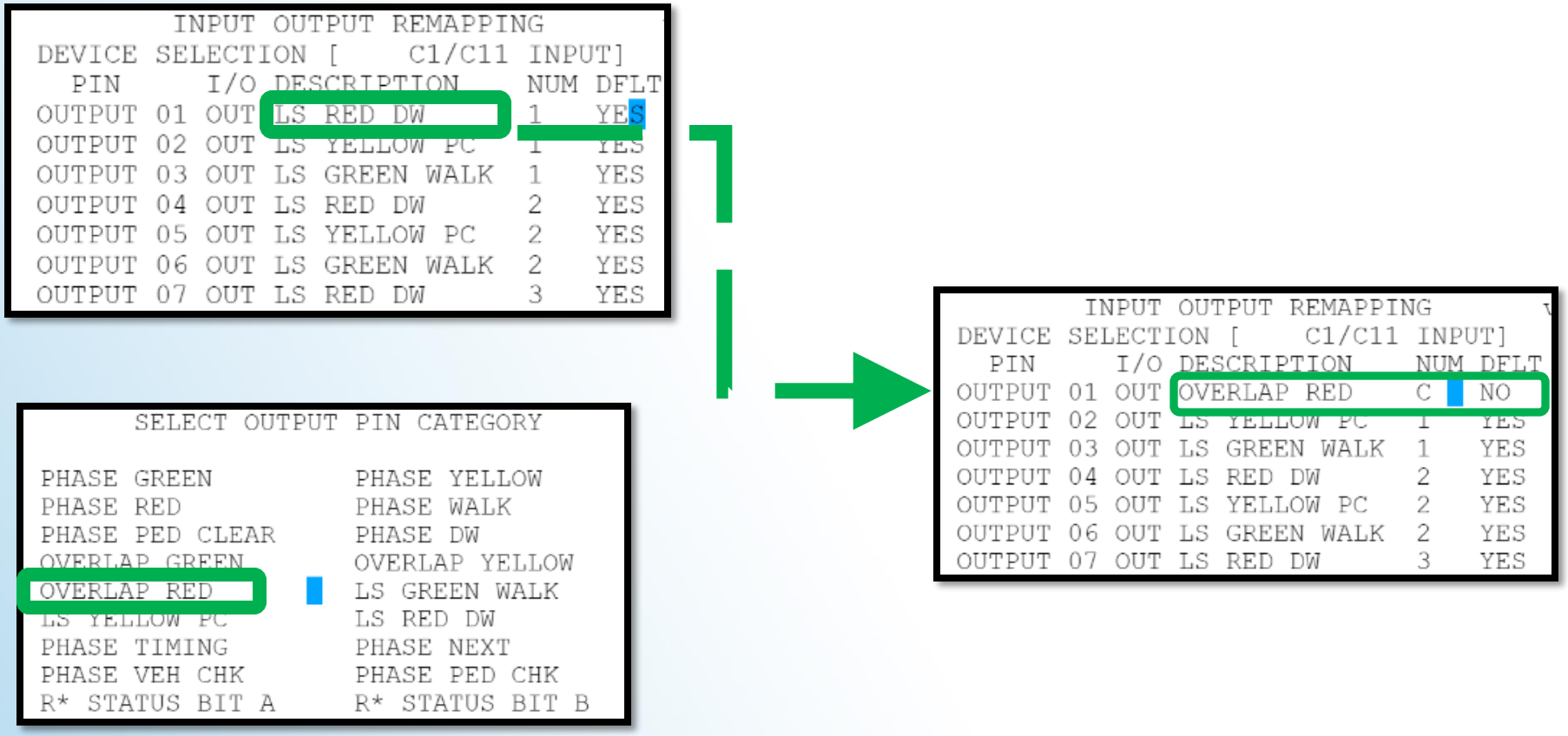
TS2-1

```
        INPUT OUTPUT REMAPPING          v
DEVICE SELECTION [         TF BIU 1]
  PIN      I/O DESCRIPTION     NUM DFLT
OUTPUT 01 OUT LS RED DW         1   YES
OUTPUT 02 OUT LS YELLOW PC      1   YES
OUTPUT 03 OUT LS GREEN WALK     1   YES
OUTPUT 04 OUT LS RED DW         2   YES
OUTPUT 05 OUT LS YELLOW PC      2   YES
```

ATCC-16/32

```
        INPUT OUTPUT REMAPPING          v
DEVICE SELECTION [    SIU 1-OUTPUT]
  PIN      I/O DESCRIPTION     NUM DFLT
OUTPUT 01 OUT LS RED DW         1   YES
OUTPUT 02 OUT LS YELLOW PC      1   YES
OUTPUT 03 OUT LS GREEN WALK     1   YES
OUTPUT 04 OUT LS RED DW         2   YES
OUTPUT 05 OUT LS YELLOW PC      2   YES
```

MM 1-1-5 Cabinet Mapping



MM 1-1-5 Cabinet Mapping

HELP CONTENT

EOS Controller Software

```
DEVICE SELECTION
Econolite Feature

Select the device on which to remap
input/output pins.

Device selection depends on the cabinet
type selected.

NOTE: If using a solid SCP
detector configuration, both a
SCP check-in input pin and a SCP
check-out input pin must be mapped.
If only the check-in is mapped, the
SCP detector won't be activated,
even though the physical input pin    1/3
```

EOS Controller Software

```
is recognized.

Selections include:
- A Connector (TS1, TS2-2)
- B Connector (TS1, TS2-2)
- C Connector (TS1, TS2-2)
- D Connector (TS1, TS2-2)
- DET BIU 1 (All Cabinet Types)
- DET BIU 2 (All Cabinet Types)
- DET BIU 3 (All Cabinet Types)
- DET BIU 4 (All Cabinet Types)
- SIU 1-INPUT (ATCC-16, ATCC-32,
  ITS-16/4)
- SIU 2-INPUT (ATCC-16, ATCC-32,
  ITS-16/4)
- SIU 3-INPUT (ATCC-16, ATCC-32,     2/3
```

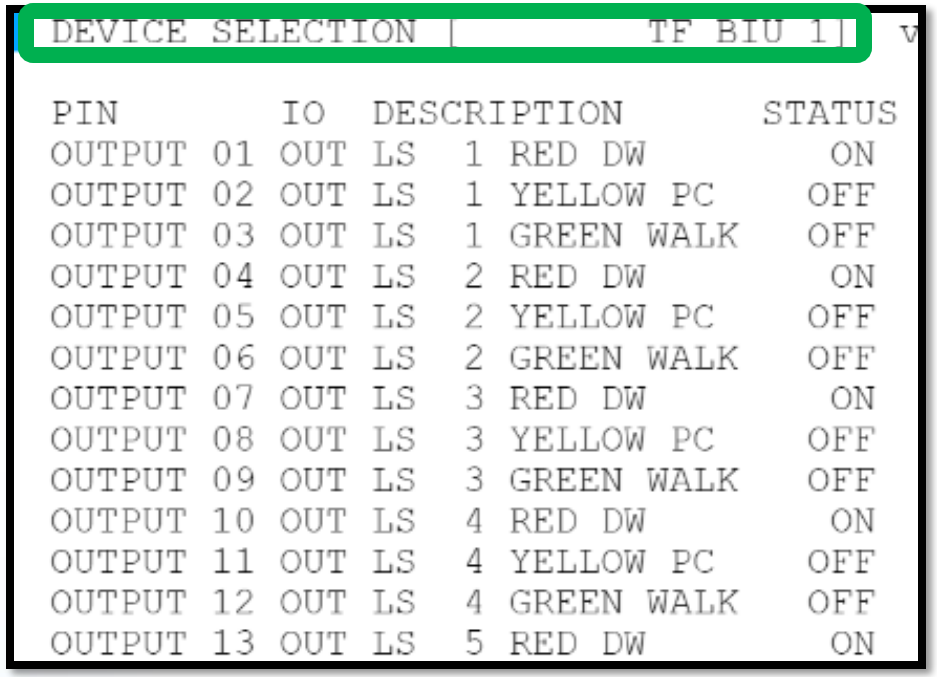
EOS Controller Software

```
  ITS-16/4)
- SIU 4-INPUT (ATCC-16, ATCC-32,
  ITS-16/4)
- SIU 5-INPUT (ATCC-16, ATCC-32,
  ITS-16/4)
- SIU 1-OUTPUT (ATCC-16, ATCC-32,
  ITS-16/4)
- SIU 2-OUTPUT (ATCC-32)
- SIU 3-OUTPUT (ITS-16/4)
- C1/C11 INPUT (33x)
- C1/C11 OUTPUT (33x)

                                     3/3
```

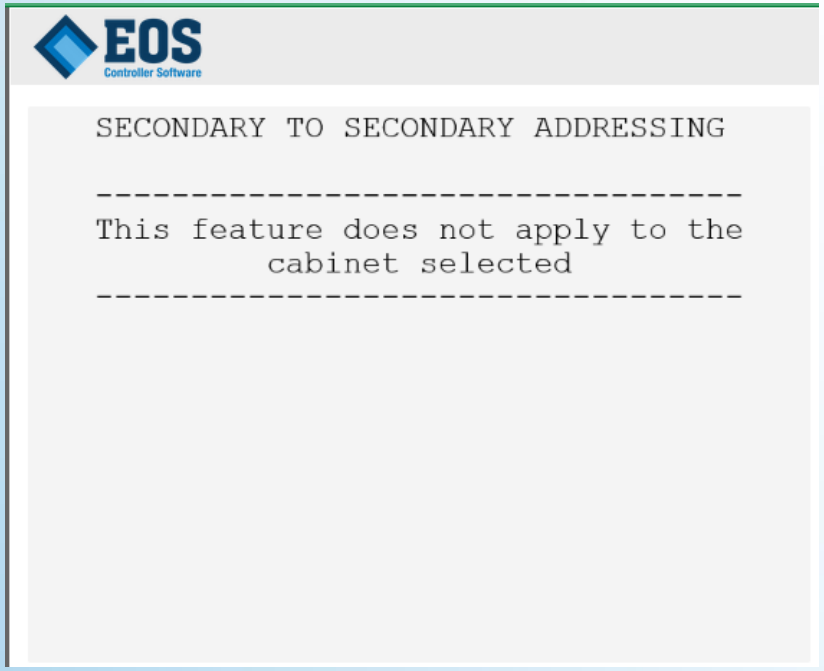
MM-7-8-3 Cabinet I/O Status

- Dynamic list showing current status of inputs and outputs
- Toggle Device Selection to show a different set of input/output mapping with its corresponding status

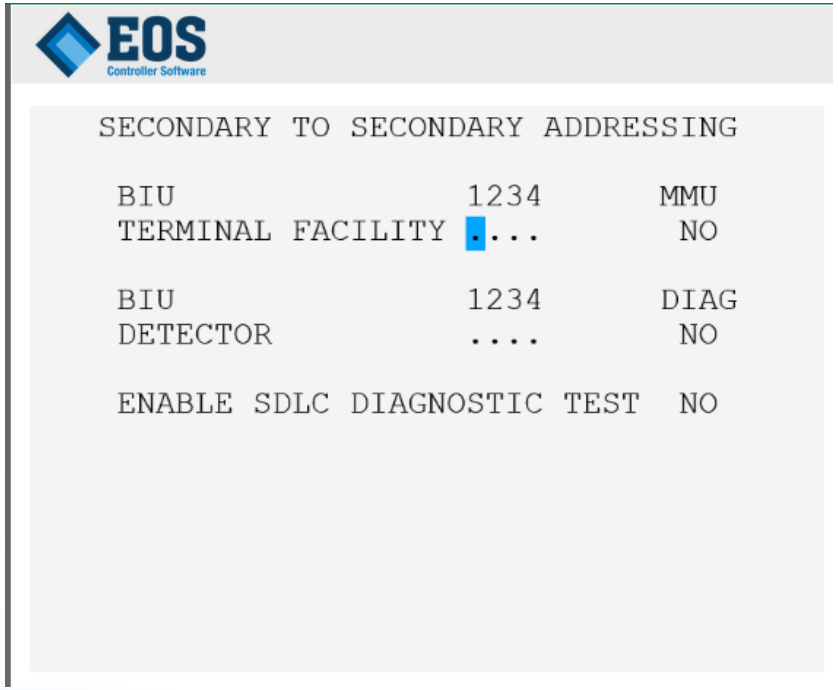


MM-1-1-6 SECONDARY TO SECONDARY ADDRESSING

Secondary to Secondary Addressing is only for ATCC and ITS cabinets only



Feature does not apply for TS1, TS2, 33x cabinets



MM-1-1-6 SECONDARY TO SECONDARY ADDRESSING

HELP CONTENT

EOS Controller Software

```
ENABLE SECONDARY TO SECONDARY
Range: X, .          NEMA TS2 3.3.1.3-6b
                     NEMA TS2 3.3.1.4.3

The controller will act as the SDLC
gateway for the enabled Secondary
to Secondary devices. Be sure the
device is preconfigured for secondary
communication.

X = Enable secondary to secondary
. = Disable secondary to secondary
```

EOS Controller Software

```
DIAGNOSTIC (TEST FIXTURE)
Range: YES, NO          Econolite Feature

YES = Enable
NO = Disable

An error is logged if enabled when not
connected to test fixture.
```

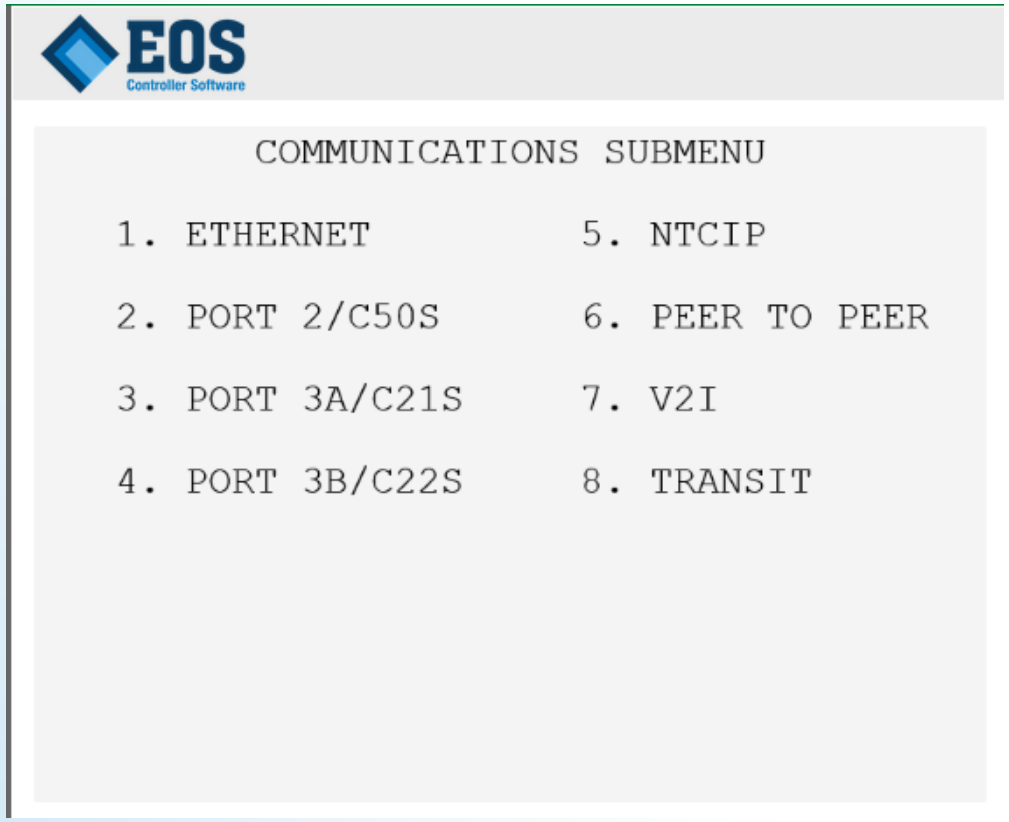
EOS COMMUNICATIONS

MM-1-2

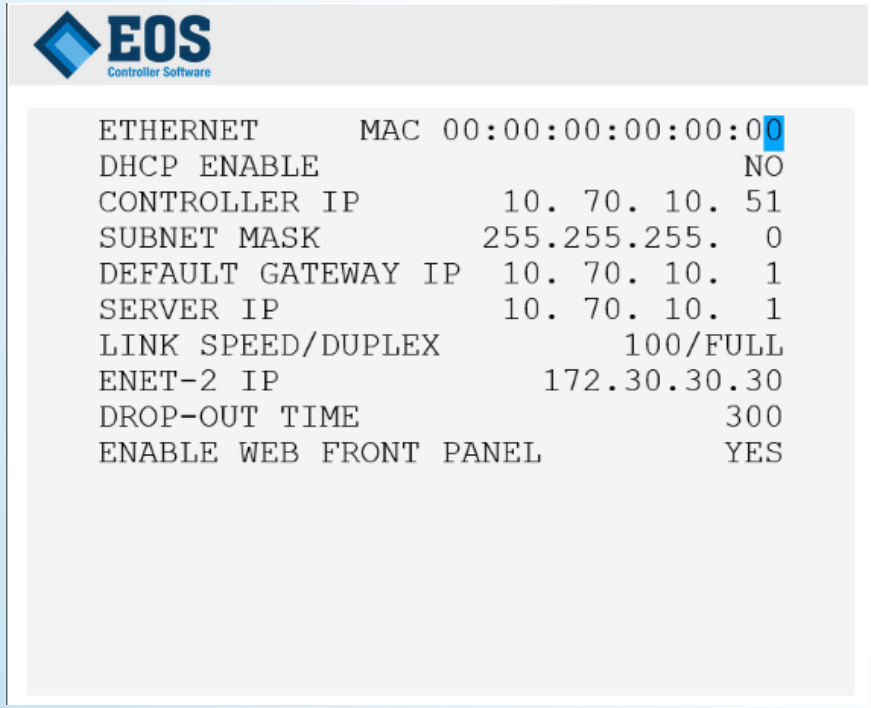
ECONOLITE

Saving Lives Through Improved Mobility

MM-1-2 COMMUNICATIONS



MM-2-1-1 ETHERNET



- ENET-1 WAN default IP is 10.70.10.51 and programable field
- Server IP is used with CV and ICD-2009 SPaT format. Enter IP of CV RSU at Server IP field
- ENET-2 is always 172.30.30.30 and non-programable field
- Enable/Disable Web Front Panel Access

MM-1-2-2 PORT 2/C50S, 3A/C21S, 3B/C22S

COMM PORT 2, 3A, 3B is Disabled by default

MM-1-2-2

EOS Controller Software

```
COMM PORT 2
```

MM-1-2-3

EOS Controller Software

```
NOT INSTALLED    COMM MODULE-      NONE


CONTROLLER DOES NOT SUPPORT THIS PORT
```

MM-1-2-4

EOS Controller Software

```
NOT INSTALLED    COMM MODULE-      NONE
```

To enable: Go to MM-1-2-3 and Choose COM MODULE-2070 COMM; when you go back to MM-1-2-2 COMM PORT 2 is enabled

MM-1-2-3

EOS Controller Software

```
  COMM PORT C21S    COMM MODULE-2070 COMM
ENABLE         NO   PROTOCOL         NTCIP
BIT RATE     9600   ADDRESS            0
D/P/S       8/N/1   GROUP ADDRESS      0
DUPLEX       FULL   DROP-OUT TIME     10
FLOW CONTROL  YES   SINGLE FLAGGED    YES
```

MM-1-2-2

EOS Controller Software

```
                COMM PORT 2
ENABLE            NO  PROTOCOL       NTCIP
BIT RATE        9600  ADDRESS            0
D/P/S          8/N/1  GROUP ADDRESS      0
DUPLEX          HALF  DROP-OUT TIME     10
FLOW CONTROL      NO  SINGLE FLAGGED    YES
```

MM-1-2-2 PORT 2/C50S, 3A/C21S, 3B/C22S

HELP CONTENT

EOS Controller Software

PROTOCOL
Range: TERMINAL, NTCIP, AB3418, FSK,
METRO RAPID, or GPS NMEA
Econolite Feature

Ports 2, 3A, 3B: Toggle to select NTCIP, AB3418, or TERMINAL.
METRO RAPID is only available on Port 2. GPS NMEA is available on Port 2 and Port 3A.

2070 NOTE
Ports C50S, C21S, C22S: Toggle to select NTCIP, AB3418, or TERMINAL.
GPS NMEA is only available on ports C21S and C22S. 1/6

EOS Controller Software

NOTE
A null-modem adaptor or cable may be required if a modem is going to be connected to this regardless of what protocol is selected.

Port 2 is the only port that supports Metro Rapid Bus-to-Signal Priority communication.

Port 3B is the only port that supports FSK communication using the Econolite TLM-925.

2070 NOTE 2/6

EOS Controller Software

Metro Rapid is supported on either C21S or C22S, but not simultaneously. Ensure only one port is configured and enabled at a time. GPS NMEA is supported on both C21S and C22S.

2070 NOTE - TERMINAL PRINTOUTS
C50S connector needs to be disabled for the log printout to work. To change the baud rate select the desired rate. Change the protocol to NTCIP. Enable the port. Wait 15 seconds and then disable the port. Change the protocol back to TERMINAL. The port is now ready. 3/6

EOS Controller Software

TERMINAL: Provides a VT100 compatible connection between the controller and computers, printers or Modems. For Port C50S, C21S and C22S, PORT must be set to disable to allow proper printing.

NTCIP: Provides a NTCIP compatible connection between computers and modems. This protocol is tailored to function in an NTCIP System.

AB3418: Provides an AB3418 compatible connection between computers and modems. This protocol is tailored to comply with the California AB3418 4/6

EOS Controller Software

specification.

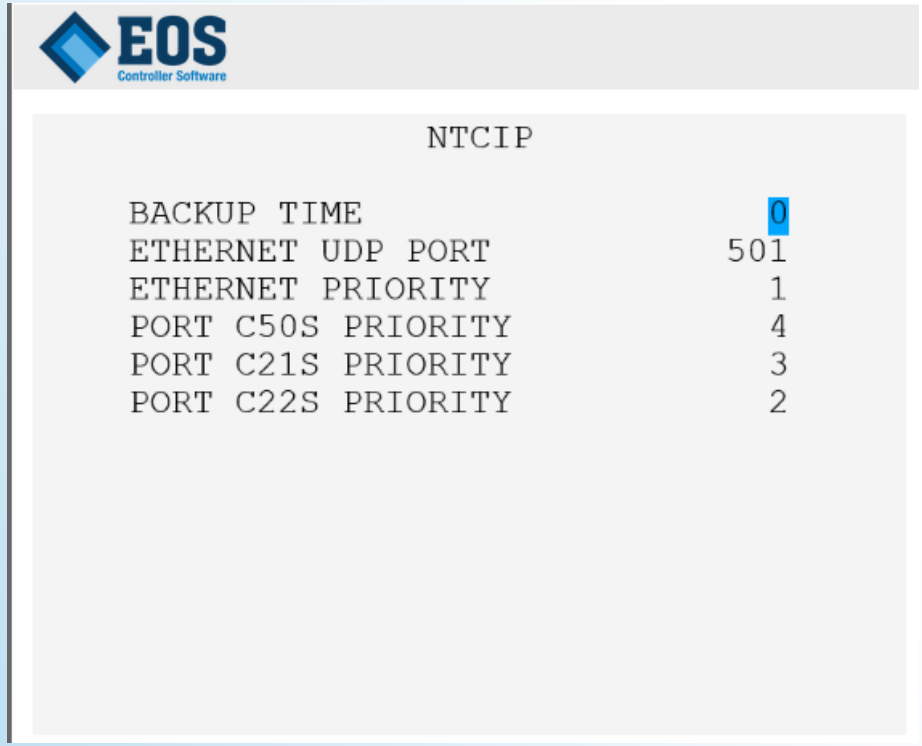
METRO RAPID: Provides a Metro Rapid and Pilot Protocol Bus-to-Signal Priority compatible connection between computers and modems. This protocol was developed for the LACMTA (Los Angeles County Metropolitan Transportation Authority).

GPS NMEA: Provides an NMEA interface to GPS receiver for time sync. The GPS receiver must send the GPRMC sentence once per second. 5/6

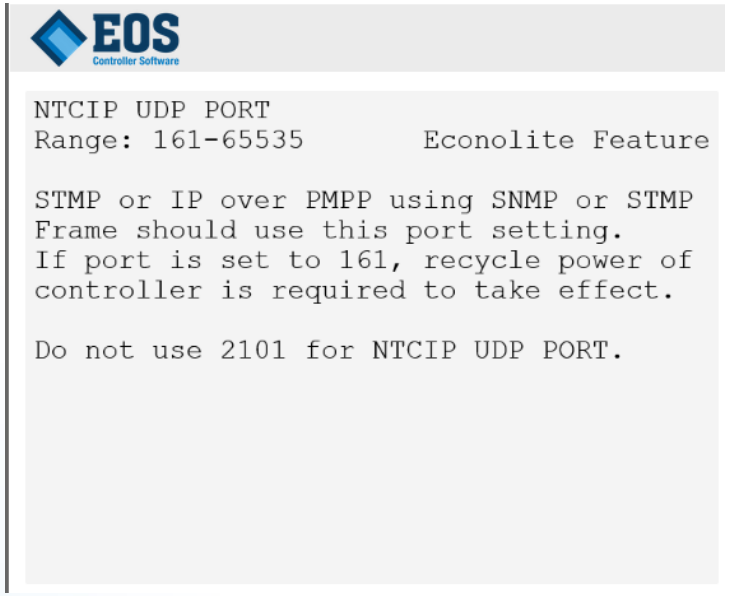
EOS Controller Software

FSK: Provides support for Econolite 25-pin connector I/O via the legacy Telemetry I/O (TIO) interface. 6/6

MM-1-2-5 NTCIP

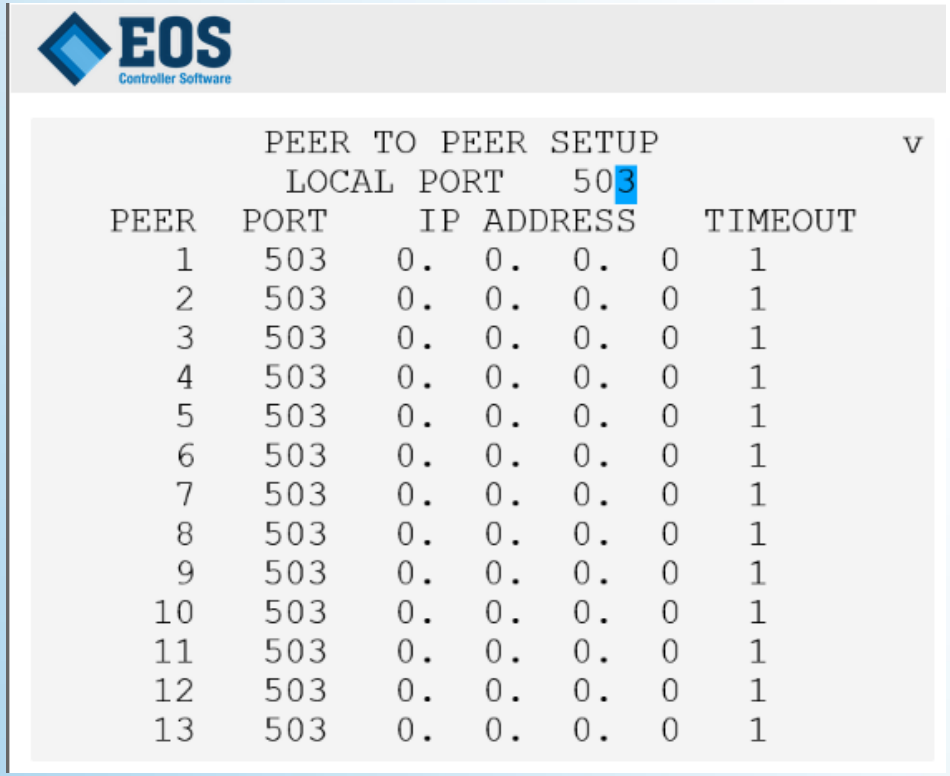


NTCIP settings is where you program the UDP port to talk to an ATMS system like Centracs

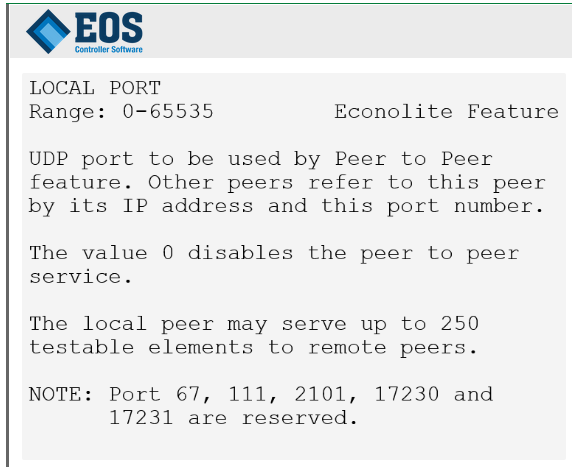


MM-1-2-6 PEER TO PEER

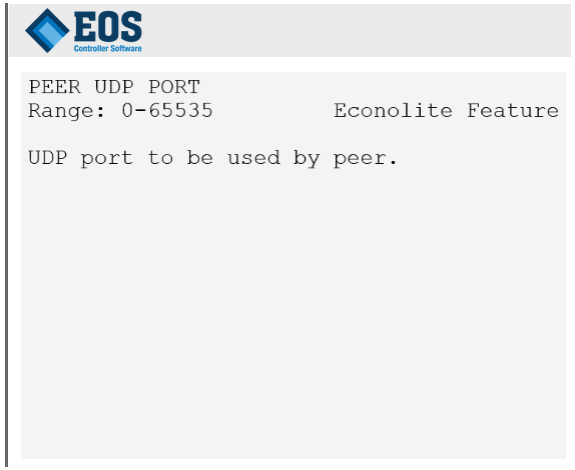
MM-1-2-6



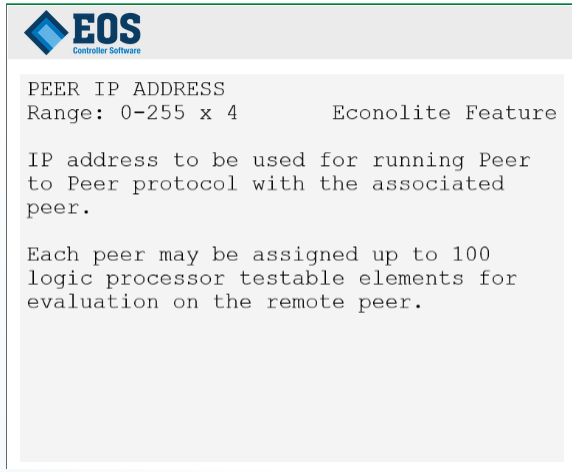
Help Content for LOCAL PORT



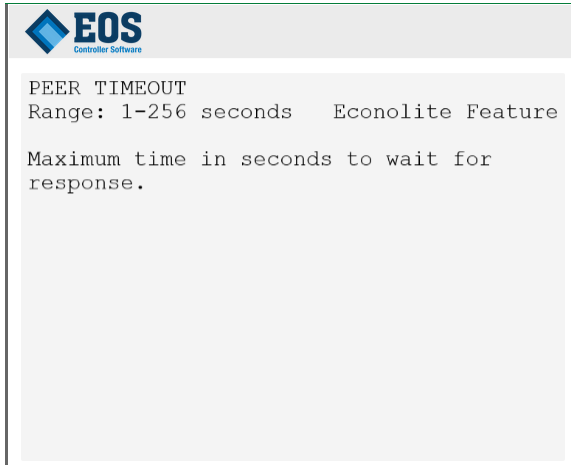
Help Content for PEER UDP Port



Help Content for PEER IP ADDRESS



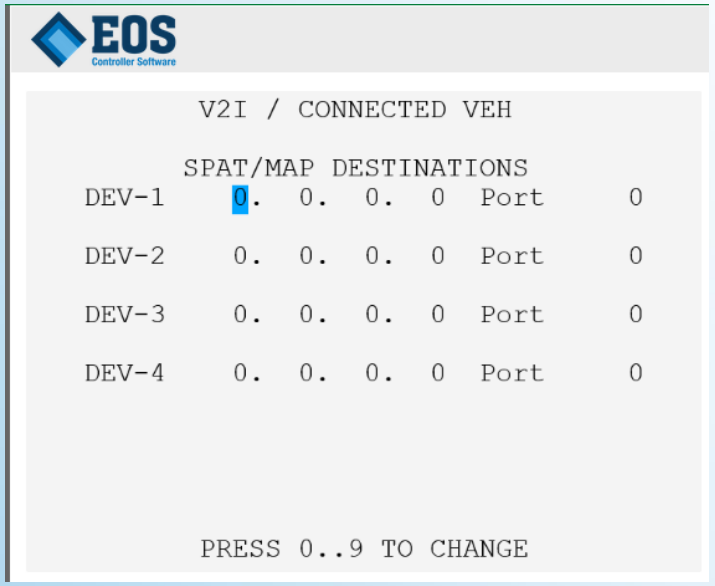
Help Content for PEER TIMEOUT



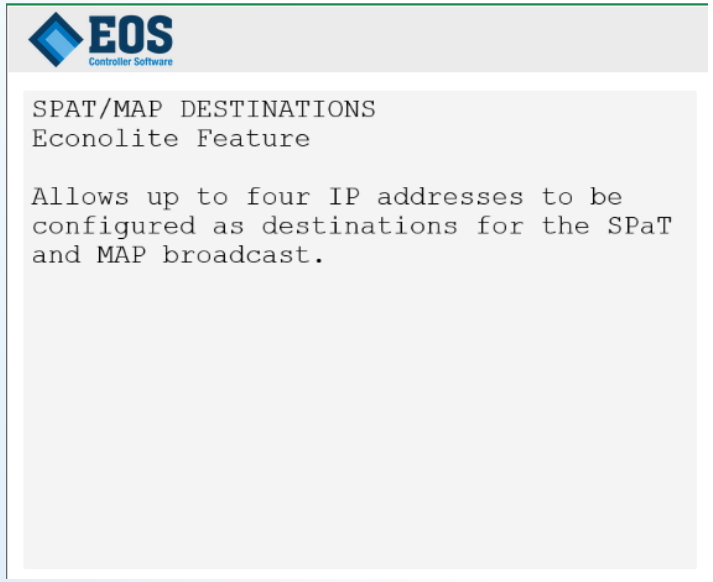
MM-1-2-7 V2I / CONNECTED VEH

This CV screen is for J2735 SPaT and MAP format

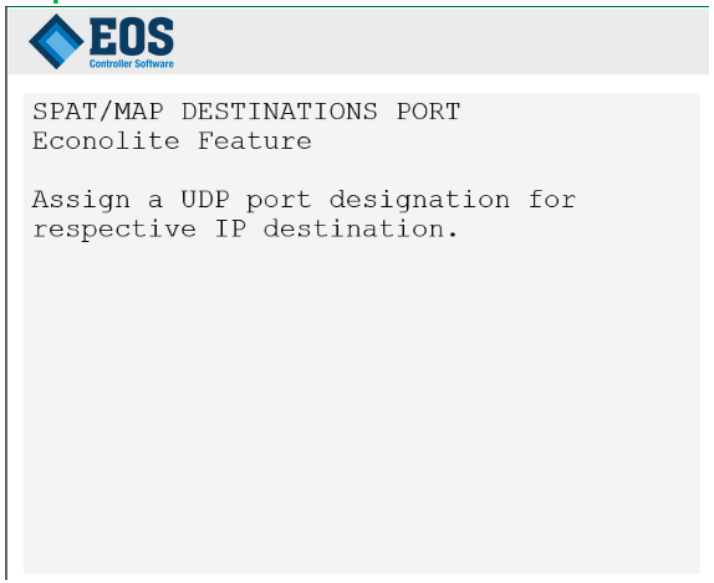
MM-1-2-7



Help Content - Destinations

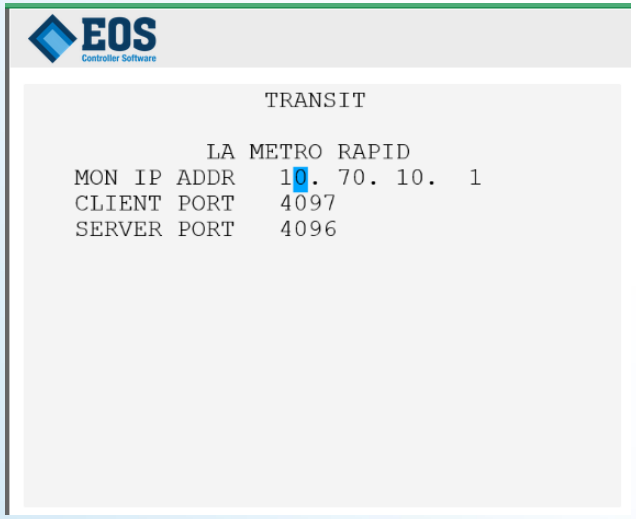


Help Content - Port

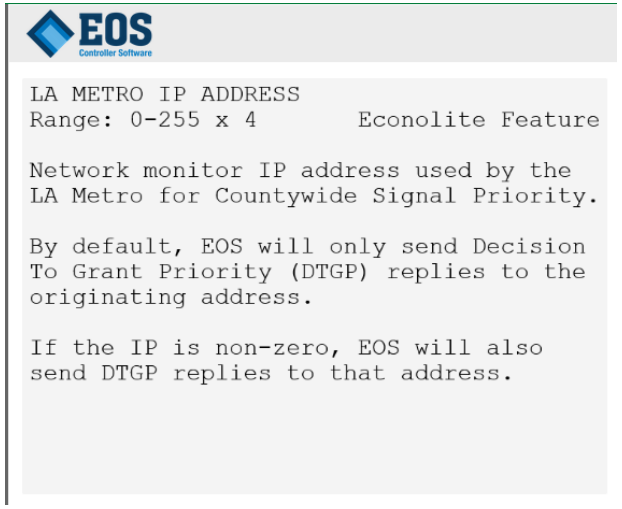


MM-1-2-8 TRANSIT / LA METRO RAPID

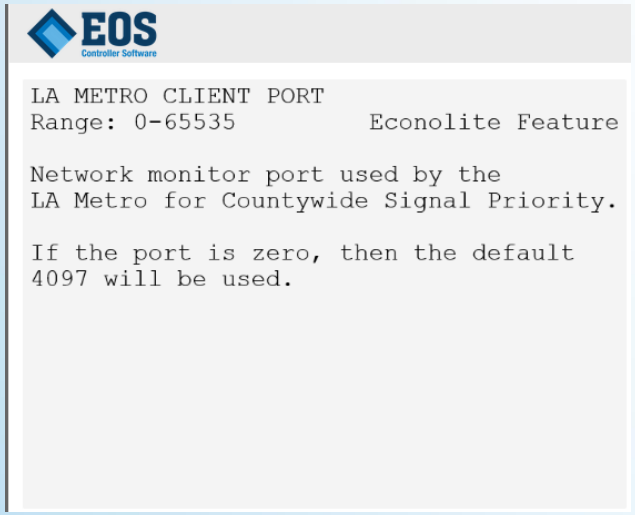
MM-1-2-8



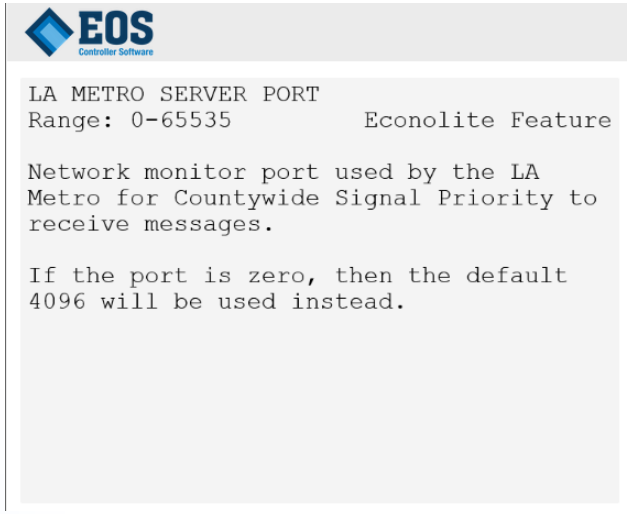
Help Content
IP ADDRESS



Help Content
Port



Help Content
SERVER PORT



EOS LOGGING

MM-1-3

ECONOLITE

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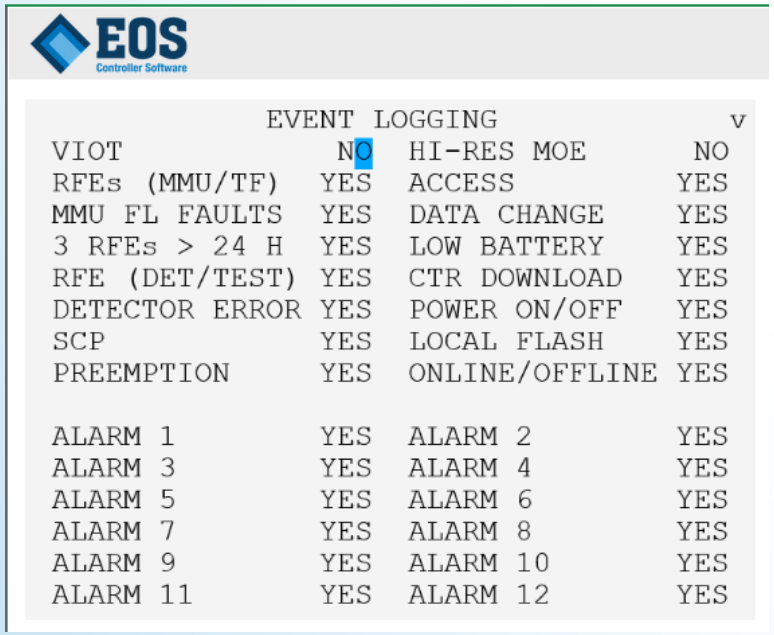
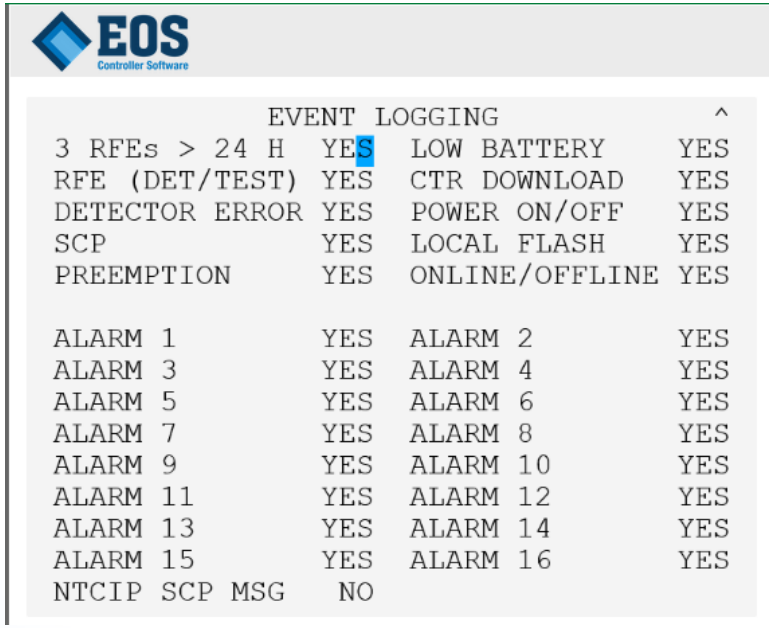
MM-1-3 LOGGING





VIOT, HI-RES MOE, NTCIP SCP MSG (EOS.TRACE) enabled at MM-1-3

MM-1-3 LOGGING VIOT

MM-1-3

EOS Controller Software

```
                EVENT LOGGING                    v
VIOT                 NO   HI-RES MOE        NO
RFEs (MMU/TF)        YES  ACCESS            YES
MMU FL FAULTS        YES  DATA CHANGE       YES
3 RFEs > 24 H        YES  LOW BATTERY       YES
```

EOS Controller Software

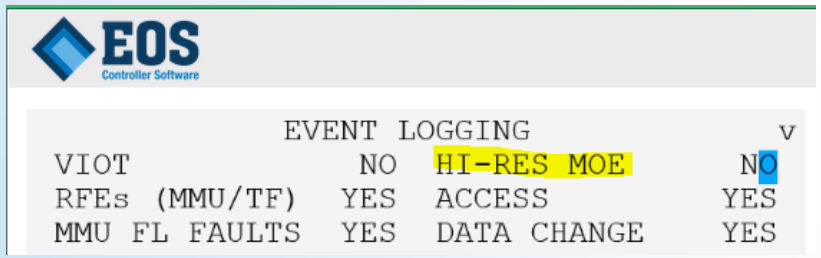
```
VIRTUAL INPUT/OUTPUT TRACE (VIOT)
Range: YES,NO,OVERWRITE
Econolite Feature

Toggle to enable (YES), disable (NO) or
enable and clear VIOT files at power up
(OVERWRITE)

YES: Enables VIOT Tracing. All
 latest I/O events are captured in
 realtime within a fixed number of
 records. When a Fault Flash
 event occurs, CIBCOB.CAP file will
 be automatically saved.

NO:  Manual save of the CIBCOB.CAP ..1/2
```

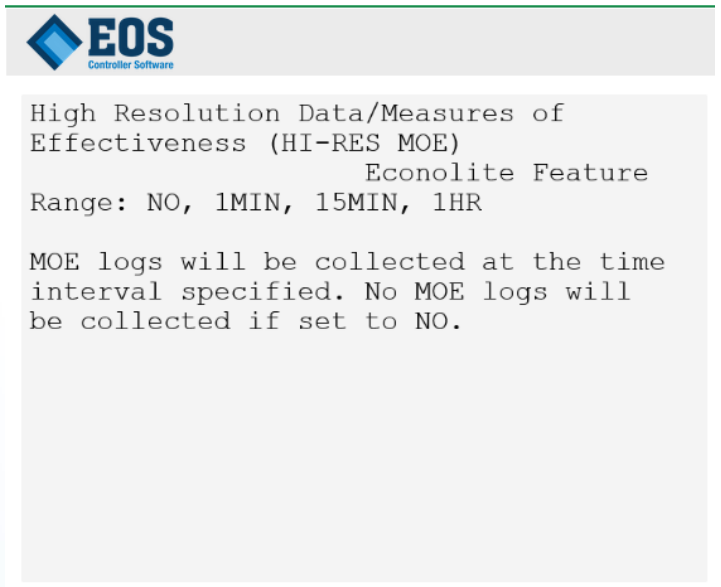
EOS Controller Software

```
 and disable VIOT Tracing.

OVERWRITE: Same as (YES) except that
 all VIOT files including CIBCOB.CAP
 will be deleted at power up.

NOTE: CIBCOB.CAP will not be
 overwritten until the next saved
 events unless OVERWRITE is selected.

                                        2/2
```

MM-1-3 HI-RES MOE

MM-1-3





MM-1-3 NTCIP SCP MSG

MM-1-3

ALARM 11	YES	ALARM 12	YES
ALARM 13	YES	ALARM 14	YES
ALARM 15	YES	ALARM 16	YES
NTCIP SCP MSG	NO		

Feature records NTCIP 1211 SCP PRIORITY REQUEST

EOS Controller Software

```
NTCIP SCP MESSAGES
Range: YES, NO          Econolite Feature

Toggle to enable (YES) or disable (NO).

YES: Enables logging all control
  exchanges from a Priority Request
  Generator (PRG) for the last seven
  days. Logs include Check-in, Request
  Update, and Cancel. This feature also
  lets you generate a playback file to
  capture all input events, including
  SCP requests.

NO: Disables logging NTCIP SCP messages.
                                    1/2
```

EOS Controller Software

```
NOTES:
- This feature is intended for transit
  system integration and is not intended
  for general use.
- Playback file is retrievable via USB
  options.
- NTCIP SCP Log must be retrieved via
  a Secure Shell (SSH).

                                    2/2
```

EOS DISPLAY OPTIONS

MM-1-4

ECONOLITE

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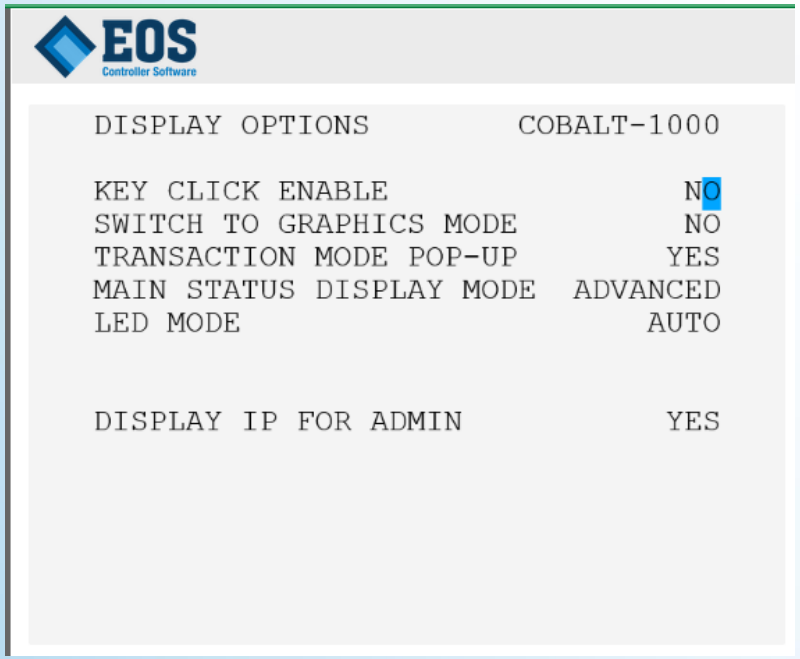
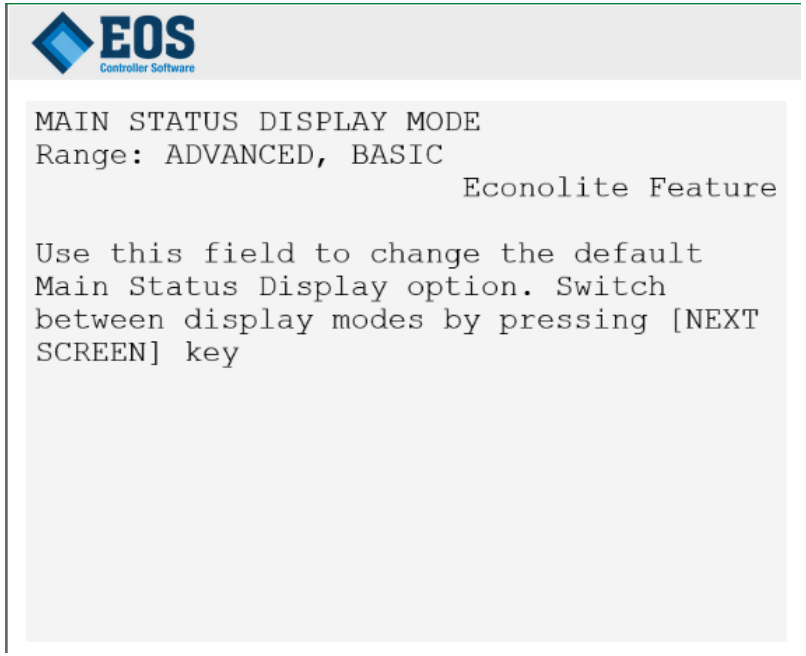
MM-1-4 DISPLAY OPTIONS



- **Key Click Enable**
  - Enable/Disable Ding or Bell Sound for Keystrokes
- **Switch to Graphics Mode**
- **Main Status Display Mode**
  - Advanced
  - Basic



EOS LOGIC PROCESSOR

MM-1-5

ECONOLITE

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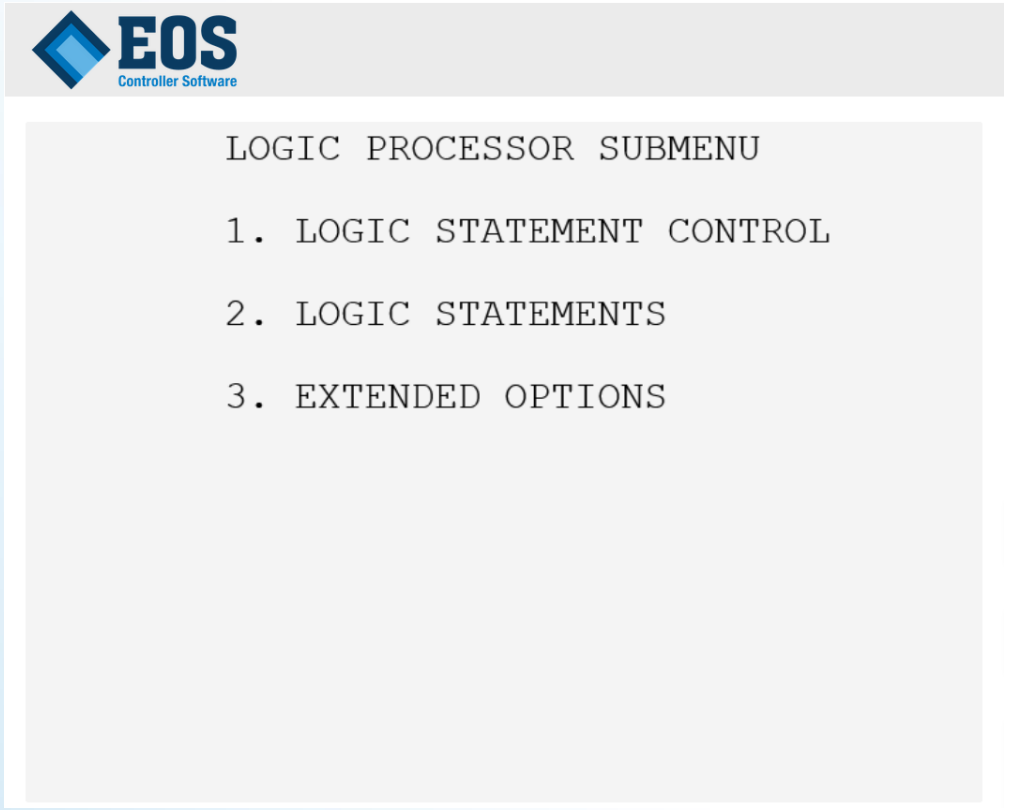
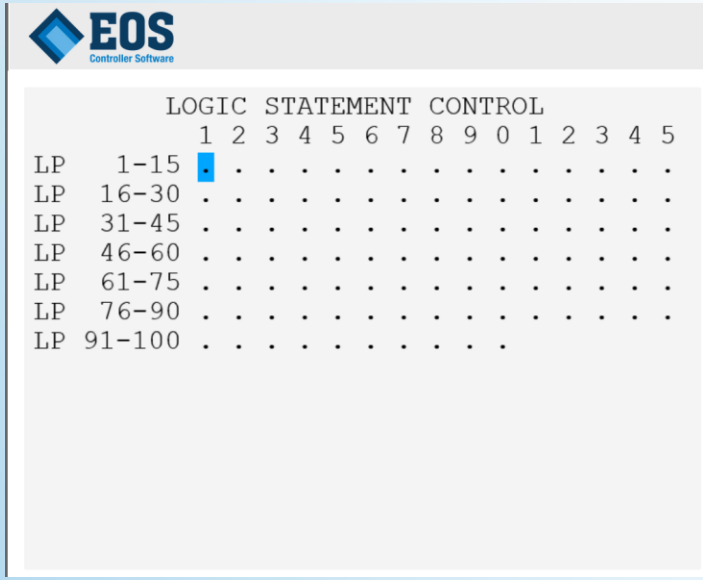
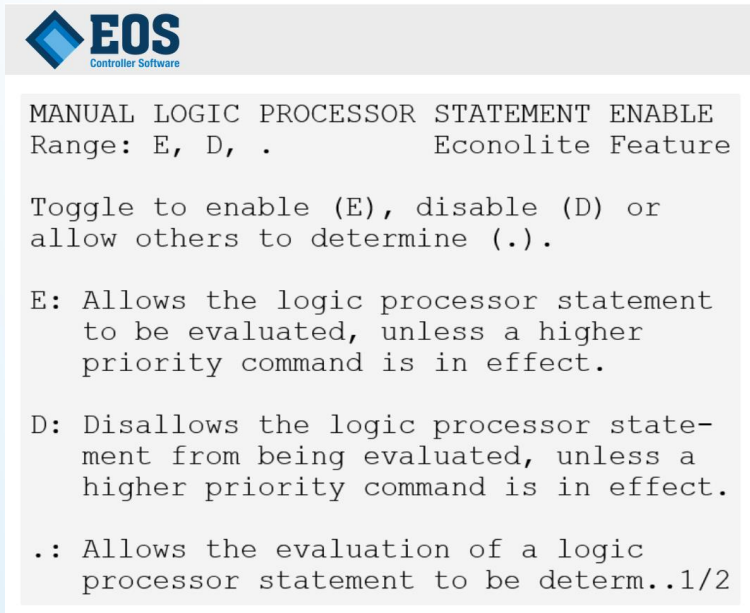
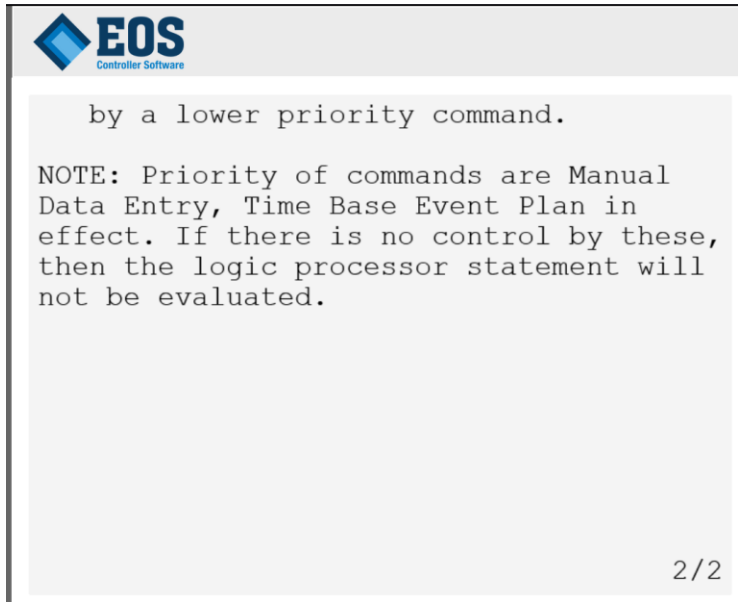
MM-1-5 LOGIC PROCESSOR



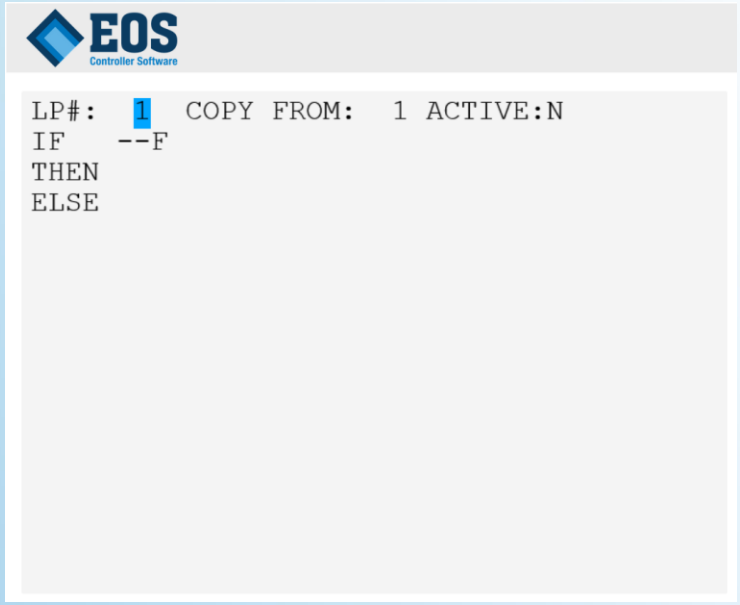
MM-1-5-1 LOGIC PROCESSOR

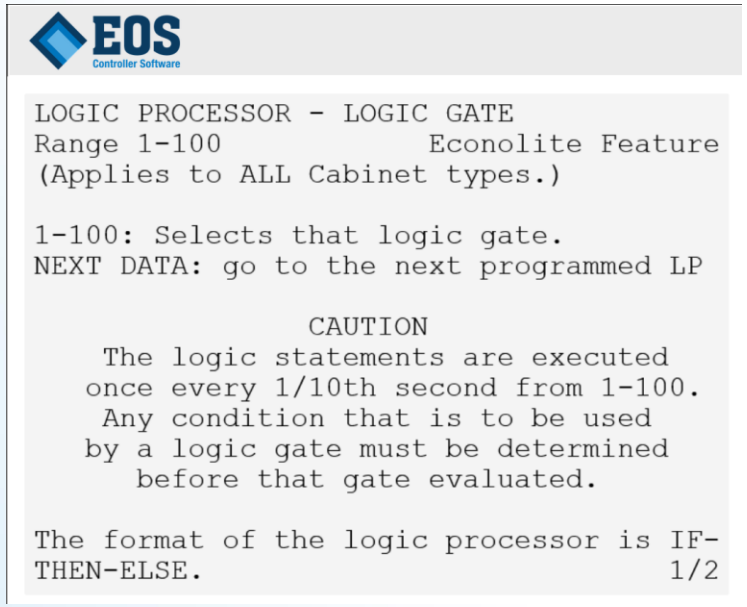


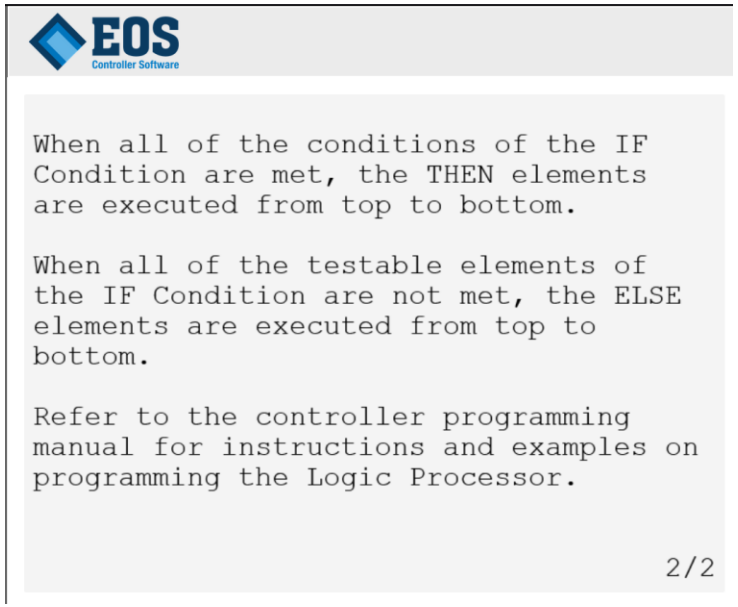




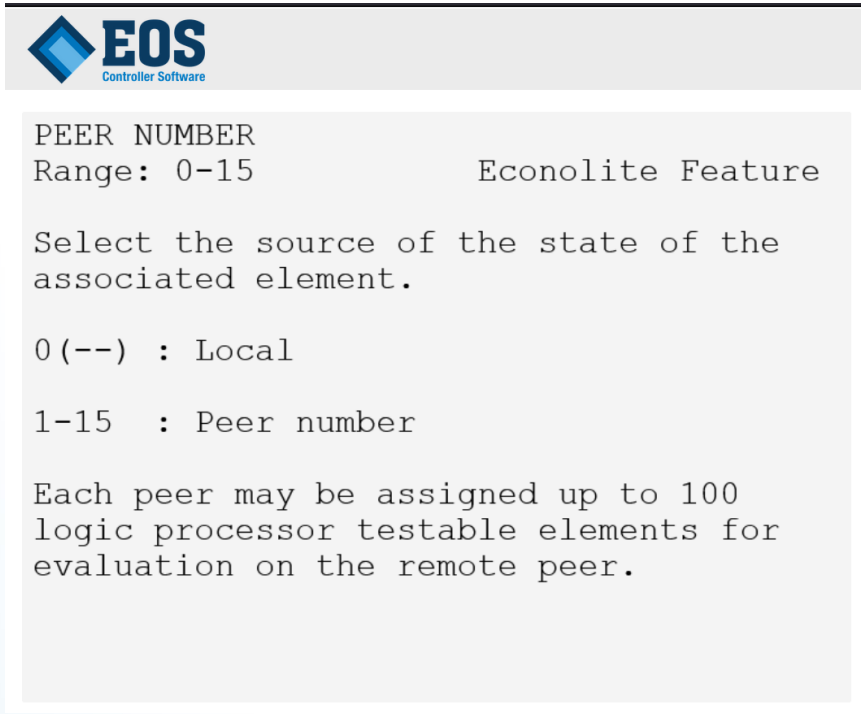
MM-1-5-2 LOGIC PROCESSOR







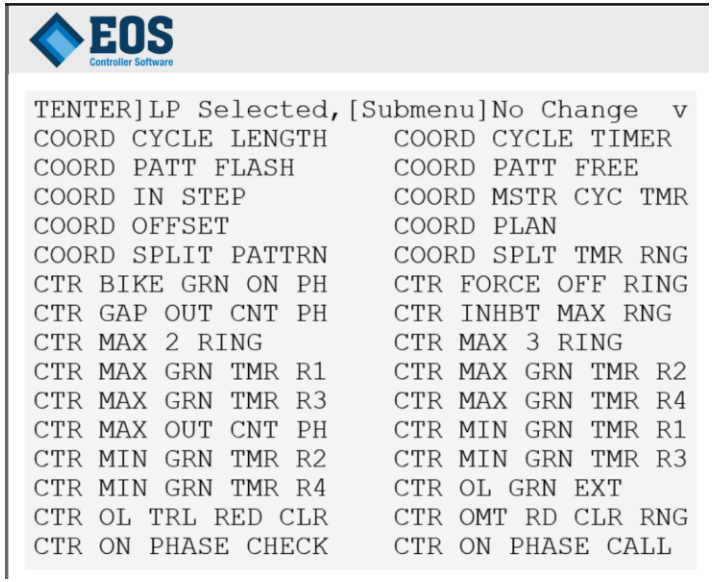
MM-1-5-2 LOGIC PROCESSOR



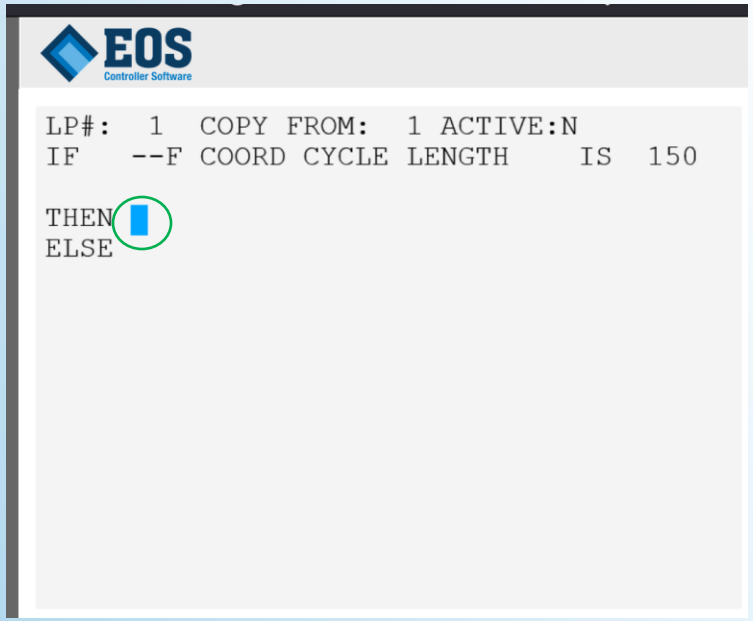
- - is the Peer number for Peer-to-Peer

MM-1-5-2 LOGIC PROCESSOR

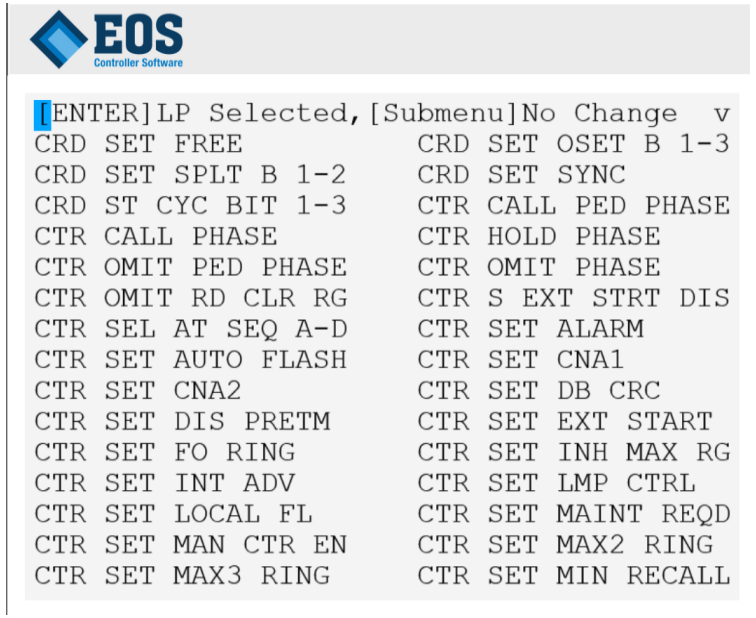
Press Enter next to F to open LP choices



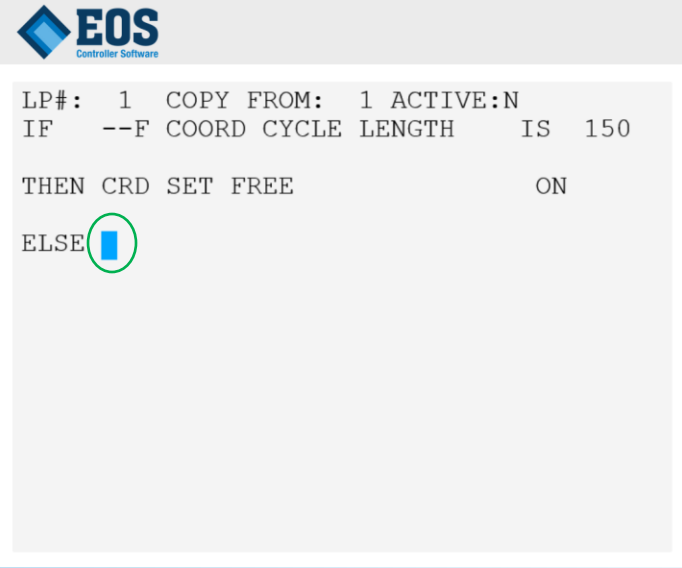
MM-1-5-2 LOGIC PROCESSOR



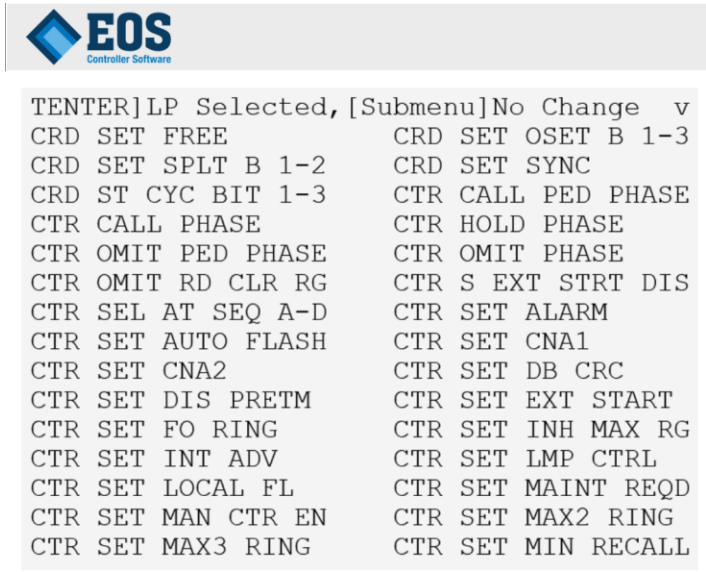
Press Enter next to THEN to open LP choices



MM-1-5-2 LOGIC PROCESSOR

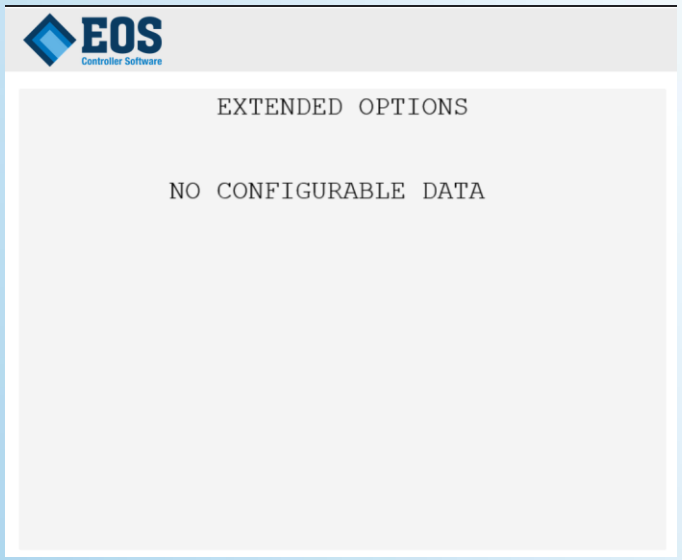


Press Enter next to THEN to open LP choices

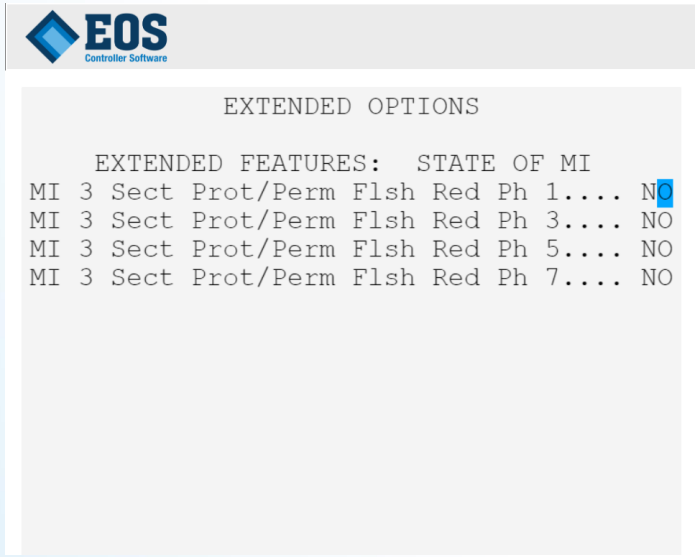


MM-1-5-3 Extended Options

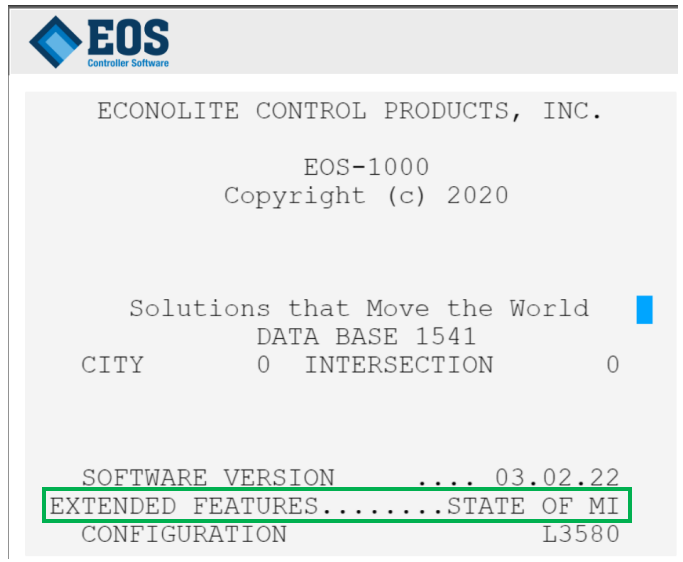
No Configurable Data by Default



Example of Extended Features loaded



MM-8-5 Also shows Extended Features is loaded



ASC3.EXT is the Extended Logic 100+ LP ; IF you don't have .EXT file you will not have Extended Features

EOS DATABASE

MM-1-6

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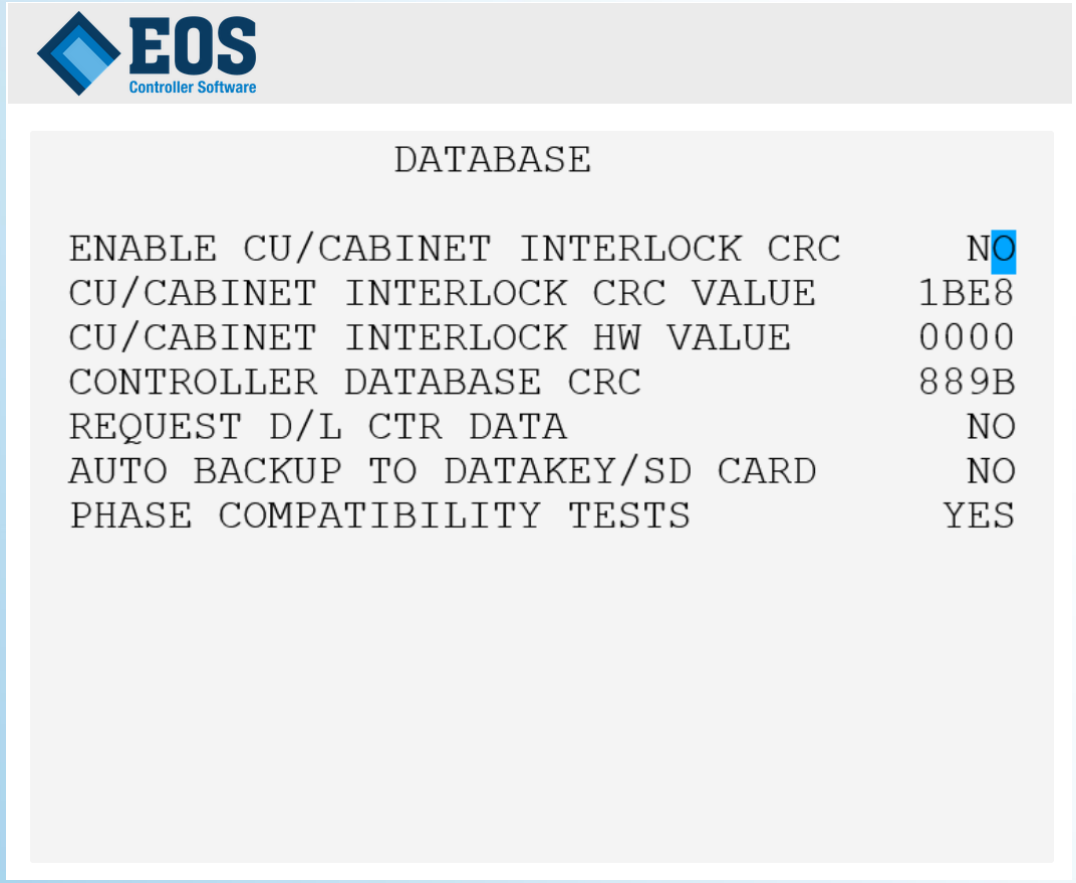
MM-1-6 DATABASE



- ENABLE CU/CABINET CRC Interlock checks to verify the CU/CABINET INTERLOCK CRC matches the CU/CABINET CRC HARDWARE VALUE Any discrepancy causes the controller to go to flash
- CU/CABINET INTERLOCK CRC is a requirement for ILLINOIS DOT, any mismatch will produce a CVM
- CU/CABINET INTERLOCK HW is the 16-bit CRC value read from the cabinet CRC inputs
- **CONTROLLER DATABASE CRC** is computed over the entire EOS database.
- Request D/L CTR DATA is to request a download of the controllers database from the Traffic Management Center
- AUTO BACKUP TO DATAKEY/SD CARD enables the controller to backup database changes to the Datakey and SD Card (if available) 20 minutes after the change has occurred.
- PHASE COMPATIBILITY TEST is used for TX Diamonds or mismatch sequences.

EOS SECURITY ACCESS

MM-1-7

ECONOLITE

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MM-1-7 SECURITY ACCESS

EOS Controller Software

```
    SECURITY ACCESS -SELECT NAME-     v
01 administrator--- 02 public----------
03 public---------- 04 public----------
05 public---------- 06 public----------
07 public---------- 08 public----------
09 public---------- 10 public----------
11 public---------- 12 public----------
13 public---------- 14 public----------
15 public---------- 16 public----------
17 public---------- 18 public----------
19 public---------- 20 public----------
21 public---------- 22 public----------
23 public---------- 24 public----------
25 public---------- 26 public----------
27 public---------- 28 public----------
29 public---------- 30 public----------
```

- Up to 50 Security Access Accounts
- USERCFG.DB is the file where the Security Access is stored
- Security Access Names are used for SNMP COMMUNITY NAME for ATMS.
  - Text must match exactly in ATMS SNMP community name and the security access name

MM-1-7 SECURITY ACCESS

EOS Controller Software

```
          USER ACCOUNT[ 1]                v

    CURRENT ID    administrator
    UPDATE ID

    CURRENT CODE       ********
    UPDATE CODE               0
    CONFIRM CODE              0

    USER PRIVILEGE          ALL

RESTRICT ACCESS    READ-ONLY DATA
UNIT OPT      NO   UNIT OPT      NO
SEQUENCE      NO   SEQUENCE      NO
PHASE         NO   PHASE         NO
OVERLAP       NO   OVERLAP       NO
```

EOS Controller Software

```
DETECTOR      NO   DETECTOR      NO  ^v
COORD         NO   COORD         NO
TIMEBASE      NO   TIMEBASE      NO
PREEMPT       NO   PREEMPT       NO
SCP           NO   SCP           NO
LOGGING       NO   LOGGING       NO

SECURITY      NO   SECURITY      NO
CABINET       NO   CABINET       NO
LOGIC PROC    NO   LOGIC PROC    NO
EXT OPTIONS   NO   EXT OPTIONS   NO
DATABASE      NO   DATABASE      NO
BACKUP/DKEY   NO   BACKUP/DKEY   NO
INTERFACE     NO   INTERFACE     NO

IP/SERIAL     NO   IP/SERIAL     NO
PROTOCOLS     NO   PROTOCOLS     NO
```

EOS Controller Software

```
RESTRICT USER MENU ACCESS
YES/NO              Econolite Feature

Toggle to YES if user is not allowed to
view menus that fit the menu context.

 Menu Context Map:
 UNIT OPT = MM-2-6
 SEQUENCE = MM-2-7
 PHASE = MM-2-1-1 thru 6,9, MM-2-4,6,8
 OVERLAP = MM-2-1-7,8, MM-2-2,3
 DETECTOR = MM-6
 COORD = MM-3
 TIMEBASE = MM-5
 PREEMPT = MM-4-1,2
 SCP = MM-4-3 thru 5                  1/2
```

EOS Controller Software

```
 LOGGING = MM-1-3, MM-8-6-3
 SECURITY = MM-1-7
 CABINET = MM-1-1,4,5
 LOGIC PROCESSOR = MM-1-5-1,2
 EXTENDED OPTIONS = MM-1-5-3
 DATABASE = MM-1-6, MM-8-1, MM-9-1-1,3
            MM-9-2
 BACKUP/DATAKEY = MM-8-2
 INTERFACE = MM-1-4, MM-8-5
 IP/SERIAL = MM-1-2-1 thru 4,
             MM-7-5-1 thru 4
 PROTOCOLS = MM-1-2-5 thru 7



                                      2/2
```

Questions?

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