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XFOX762 Driver Manual

Foxboro 762C/762CSA/743CB Micro Controllers Driver

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XFOX762 technical specifications

General information

XFOX762 driver allows you to communicate with the FOXBORO 762C and 762CSA SINGLE STATION MICRO Controllers and the 743CB FIELD STATION MICRO Controllers. This driver has been developed according to the Foxboro Instruction Book MI 018-888.

RECOMMENDATIONS:

- Use pins 24 and 25 in the back of the controller to connect to the RS485 serial port of the controller. Check this with your controller's manual to see if this pins have not changed from previous versions of the controller.
- Use an RS-232/485 converter to connect the controller to your PC.
- Make sure that the controller station address, baudrate, parity, databits and stop bits are correctly configured in the driver and matches those used by the meter.

If you cannot communicate or if you are using RS-485 to connect to the device, you should set the RTS signal during the communication. This can be done by setting the RTSEnable argument when calling the read and write methods. If you still cannot communicate, check that your RS-485 cables are not inverted.

Command list

Read Current Set Point, Measurement, Output, Status and Alarm Values

Description of this command:

Reads the current values for the set point, measurement, and output, plus additional controller status and alarm information.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

1-19

Meaning of the DriverP0 parameter:

Controller Address (0-99).

Meaning of the DriverP1 parameter:

11

Values that are returned:

Value in PointValue (0) = Primary controller set point.

Value in PointValue (1) = Primary controller measured value.

Value in PointValue (2) = Primary controller output.

Value in PointValue (3) = FLAG BYTE/Bit 0: User interface entered indicator:

0 = not entered

1 = entered subsequent to last host acknowledgment

Value in PointValue (4) = FLAG BYTE/Bit 1: Primary A/M setting

0 = MANUAL

1 = AUTO

Value in PointValue (5) = FLAG BYTE/Bit 2: W/P setting

0 = PANEL

1 = WORKSTATION

Value in PointValue (6) = FLAG BYTE/Bit 3: Primary R/L setting

0 = LOCAL

1 = REMOTE

Value in PointValue (7) = FLAG BYTE/Bit 4:

1 = CONTROLLER OUTPUT LIMITED HIGH

Value in PointValue (8) = FLAG BYTE/Bit 5:

1 = CONTROLLER OUTPUT LIMITED LOW

Value in PointValue (9) = FLAG BYTE/Bit 6: Ctrl Bypass State

0 = Bypass not active

1 = Bypass active

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Value in PointValue (10) = FLAG BYTE/Bit 7: Alarm indicator
0 = No alarms
1 = Alarm present (See ALARM BYTE)
Value in PointValue (11) = ALARM BYTE/Bit 0: (Only valid if BIT 1 = 1)
0 = ALARM 4 is LEVEL 2 alarm
1 = ALARM 4 is LEVEL 1 alarm
Value in PointValue (12) = ALARM BYTE/Bit 1:
0 = No ALARM 4 exists
1 = ALARM 4 exists
Value in PointValue (13) = ALARM BYTE/Bit 2: (Only valid if BIT 3 = 1)
0 = ALARM 3 is LEVEL 2 alarm
1 = ALARM 3 is LEVEL 1 alarm
Value in PointValue (14) = ALARM BYTE/Bit 3:
0 = No ALARM 3 exists
1 = ALARM 3 exists
Value in PointValue (15) = ALARM BYTE/Bit 4: (Only valid if BIT 5 = 1)
0 = ALARM 2 is LEVEL 2 alarm
1 = ALARM 2 is LEVEL 1 alarm
Value in PointValue (16) = ALARM BYTE/Bit 5:
0 = No ALARM 2 exists
1 = ALARM 2 exists
Value in PointValue (17) = ALARM BYTE/Bit 6: (Only valid if BIT 7 = 1)
0 = ALARM 1 is LEVEL 2 alarm
1 = ALARM 1 is LEVEL 1 alarm
Value in PointValue (18) = ALARM BYTE/Bit 7:
0 = No ALARM 1 exists
1 = ALARM 1 exists

Read Controller Inputs #1 to #4

Description of this command:

Reads analog inputs #1 to #4 current values.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

1-4

Meaning of the DriverP0 parameter:

Controller Address (0-99).

Meaning of the DriverP1 parameter:

32

Meaning of the DriverP2 parameter:

512

Meaning of the DriverP3 parameter:

-40

Write Current Set Point, Measurement, Output, Status or Alarm Values

Description of this command:

Writes the setpoint value or the primary controller output, as well as to change the status of some flags like A/M, R/L and to acknowledge alarms in the controller.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Controller Address (0-99).

Meaning of the DriverP1 parameter:

12

Meaning of the DriverP2 parameter:

Defines the STATUS BYTE (here it acts like a sub-command). This command is used to change the setpoint value or the primary controller output, as well as to change the status of some flags like A/M, R/L and to acknowledge alarms in the controller.

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There is no command which allows you to change the setpoint or output only, without in turn having to indicate some other related data. Thus, it is necessary to specify in all cases the STATUS BYTE through HMITalk1.DriverP2.

According to the value provided in HMITalk1.DriverP2, the current Analog Output value may or may not be used. The Analog Output value is only used and sent to the controller in those cases where the STATUS BYTE BIT0 is 1.

At that point, BIT5 decides if what is to be changed is the setpoint or the output. The Analog Output value must be taken to internal controller format like in the case of the WRITE COMMAND. If BIT0 is 0, the Analog Output value is not sent and the command is used to change some operation flag or to be notified of the alarm status.

STATUS BYTE:

- Bit 0: Change Indicator

0 = No new output or setpoint

1 = New output or setpoint is being specified via bits 4, 5 & 6 if incremental, or value if absolute.

- Bit 1: A/M Setting:

0 = MANUAL

1 = AUTO

- Bit 2: User interface acknowledgement:

0 = No acknowledgement.

1 = Acknowledgement.

- Bit 3: R/L Setting: (R/L is ignored if the controller is configured for LOCAL only).

0 = LOCAL

1 = REMOTE

- Bit 4: Size of step change:

0 = SMALL STEP

1 = LARGE STEP

- Bit 5: Output Vs setpoint or W/P:

0 = Select panel if Bit 0 = 0

1 = Select workstation if Bit 0 = 0

0 = Change output if Bit 0 = 1

1 = Change setpoint if Bit 0 = 1

- Bit 6: Direction of change:

0 = Increment the setting.

1 = Decrement the setting.

- Bit 7: Alarm acknowledge:

0 = No acknowledge.

1 = acknowledge all current alarms.

Examples:

- P2 = 01h ==> Set MANUAL, LOCAL, WORKSTATION modes and without alarm acknowledgement, sending the Analog Output value as the new controller output. (Appropriate scaling is 0, 1, 0, 40)

- P2 = 20h ==> Set MANUAL, LOCAL, WORKSTATION modes and without alarm acknowledgement.

- P2 = 21h ==> Set MANUAL, LOCAL, WORKSTATION modes and without alarm acknowledgement, sending the Analog Output value as the new setpoint. (Appropriate scaling is 0, 1, 0, 40)

- P2 = 22h ==> Set AUTOMATIC, LOCAL, WORKSTATION modes and without alarm acknowledgement.

- P2 = 23h ==> Set AUTOMATIC, LOCAL, WORKSTATION modes and without alarm acknowledgement, but sending the Analog Output value as the new setpoint. (Appropriate scaling is 0, 1, 0, 40)

- P2 = A2h ==> Set AUTOMATIC, LOCAL, WORKSTATION mode and with alarm acknowledgement. (Note that in the previous commands, 80h is added to any previous command for alarm acknowledgement).

Important note:

R/L is ignored if the controller is configured for LOCAL only.

Write Setpoint Value

Description of this command:

Writes the setpoint value in the controller.

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Methods used to run this command:

Analog Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Controller Address (0-99).

Meaning of the DriverP1 parameter:

12

Meaning of the DriverP2 parameter:

35

Write Output Current Value

Description of this command:

Writes the output current value in the controller.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Controller Address (0-99).

Meaning of the DriverP1 parameter:

12

Meaning of the DriverP2 parameter:

1

Set Controller Mode

Description of this command:

Sets the controller in manual or auto mode.

Methods used to run this command:

Digital Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Controller Address (0-99).

Meaning of the DriverP1 parameter:

12

Values that are sent:

Value in PointValue (0) = 0 sets manual mode

Value in PointValue (0) = 1 sets auto mode

Set Controller in Manual Mode

Description of this command:

Sets the controller in manual mode.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Controller Address (0-99).

Meaning of the DriverP1 parameter:

12

Meaning of the DriverP2 parameter:

32

Set Controller in Auto Mode

Description of this command:

Sets the controller in auto mode.

Methods used to run this command:

Analog Output

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Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Controller Address (0-99).

Meaning of the DriverP1 parameter:

12

Meaning of the DriverP2 parameter:

34

Alarm Acknowledge

Description of this command:

Writes the setpoint value in the controller.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Controller Address (0-99).

Meaning of the DriverP1 parameter:

12

Meaning of the DriverP2 parameter:

35

Read Controller Memory As Bytes

Description of this command:

This command allows you to read bytes from the controller memory. The controller's memory map information is included in Appendix B of the Controller Manual.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

1-250

Meaning of the DriverP0 parameter:

Controller Address (0-99).

Meaning of the DriverP1 parameter:

14

Meaning of the DriverP2 parameter:

Initial memory address pointed

Meaning of the DriverP3 parameter:

Conversion Factor

Read Controller Memory As Bits

Description of this command:

This command allows you to read bytes of the controller memory as bits. The controller's memory map information is included in Appendix B of the Controller Manual.

Methods used to run this command:

Digital Input

Number of points accepted by this command:

1-250

Meaning of the DriverP0 parameter:

Controller Address (0-99).

Meaning of the DriverP1 parameter:

14

Meaning of the DriverP2 parameter:

Initial memory address pointed

Read Controller Memory As Words

Description of this command:

Reads consecutive words from the controller memory. It is a non-standard function which is very useful to read parameters whose values are formed by 2 bytes. In the case of packages, be

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careful to note that all the data required are word-type, otherwise wrong results will be obtained. The controller's memory map information is included in Appendix B of the Controller Manual.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

1-125

Meaning of the DriverP0 parameter:

Controller Address (0-99).

Meaning of the DriverP1 parameter:

32

Meaning of the DriverP2 parameter:

Initial memory address pointed

Meaning of the DriverP3 parameter:

Conversion Factor

Write Controller Memory As Bytes

Description of this command:

This command allows you to write bytes of the controller memory. The controller's memory map information is included in Appendix B of the Controller Manual.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1-125

Meaning of the DriverP0 parameter:

Controller Address (0-99).

Meaning of the DriverP1 parameter:

13

Meaning of the DriverP2 parameter:

Initial memory address pointed

Meaning of the DriverP3 parameter:

Conversion Factor

Write Controller Memory As Bits

Description of this command:

Writes the controller memory byte as bits. The controller's memory map information is included in Appendix B of the Controller Manual.

Methods used to run this command:

Digital Output

Number of points accepted by this command:

1-8

Meaning of the DriverP0 parameter:

Controller Address (0-99).

Meaning of the DriverP1 parameter:

13

Meaning of the DriverP2 parameter:

Memory address pointed

Write Controller Memory As Words

Description of this command:

Writes consecutive words to the controller memory. It is a non-standard function which is very useful to write parameters whose values are formed by 2 bytes. In the case of packages, be careful to note that all destination parameters are word-type, otherwise wrong results will be obtained. The controller's memory map information is included in Appendix B of the Controller Manual.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1-125

Meaning of the DriverP0 parameter:

Controller Address (0-99).

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Meaning of the DriverP1 parameter:
33

Meaning of the DriverP2 parameter:
Initial memory address pointed

Meaning of the DriverP3 parameter:
Conversion Factor

Read Any Parameter As Bytes

Description of this command:

This command allows you to read a consecutive parameters as bytes.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

1-125

Meaning of the DriverP0 parameter:

Controller Address (0-99).

Meaning of the DriverP1 parameter:

15

Meaning of the DriverP2 parameter:

Parameter number to be read

Meaning of the DriverP3 parameter:

Conversion Factor

Read Any Parameter As Bits

Description of this command:

This command allows you to read a consecutive parameters as bits.

Methods used to run this command:

Digital Input

Number of points accepted by this command:

1-250

Meaning of the DriverP0 parameter:

Controller Address (0-99).

Meaning of the DriverP1 parameter:

15

Meaning of the DriverP2 parameter:

Parameter number to be read

Write Any Parameter As Bytes

Description of this command:

This command allows you to write a consecutive parameters as bytes.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1-83

Meaning of the DriverP0 parameter:

Controller Address (0-99).

Meaning of the DriverP1 parameter:

16

Meaning of the DriverP2 parameter:

Parameter number to be written

Meaning of the DriverP3 parameter:

Conversion Factor

Write Any Parameter As Bits

Description of this command:

Writes the parameter as bits.

Methods used to run this command:

Digital Output

Number of points accepted by this command:

1-16

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Meaning of the DriverP0 parameter:

Controller Address (0-99).

Meaning of the DriverP1 parameter:

16

Meaning of the DriverP2 parameter:

Parameter number to be written

Read Current Computer Variables, Controller Outputs and I/O Settings

Description of this command:

It allows you to read the value of the computed variables A, B, C, D, E and F, the OUT1 and OUT2 controller outputs, setting of CI1 and CI2 input, and setting of CO1 and CO2 output.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

1-12

Meaning of the DriverP0 parameter:

Controller Address (0-99).

Meaning of the DriverP1 parameter:

17

Values that are returned:

Value in PointValue (0) = Value of the computed variable A

Value in PointValue (1) = Value of the computed variable B

Value in PointValue (2) = Value of the computed variable C

Value in PointValue (3) = Value of the computed variable D

Value in PointValue (4) = Value of the computed variable E

Value in PointValue (5) = Value of the computed variable F

Value in PointValue (6) = Value of the OUT1 output

Value in PointValue (7) = Value of the OUT2 output

Value in PointValue (8) = Status of CI1 (0=OPEN, 1=CLOSED)

Value in PointValue (9) = Status of CI2 (0=OPEN, 1=CLOSED)

Value in PointValue (10) = Status of CO1 (0=OPEN, 1=CLOSED)

Value in PointValue (11) = Status of CO2 (0=OPEN, 1=CLOSED)

Read Current Set Point, Measurement, Output, Status or Alarm Values From The Secondary Controller

Description of this command:

Reads the current values for the set point, measurement, and output, plus additional controller status and alarm information from the secondary controller. Since the secondary controller works as REMOTE-ONLY, the R/L flag status will always indicate REMOTE. Besides, except for the M/A status of the secondary controller, all other data transmitted in the FLAG BYTE and in ALARM BYTE will match those transmitted by the primary controller poll command.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

1-19

Meaning of the DriverP0 parameter:

Controller Address (0-99).

Meaning of the DriverP1 parameter:

18

Values that are returned:

Value in PointValue (0) = Secondary controller setpoint

Value in PointValue (1) = Secondary controller measured value

Value in PointValue (2) = Secondary controller output

Value in PointValue (3) = FLAG BYTE/Bit 0: User interface entered indicator:

0 = not entered

1 = entered subsequent to last host acknowledgment

Value in PointValue (4) = FLAG BYTE/Bit 1: Primary A/M setting

0 = MANUAL

1 = AUTO

Value in PointValue (5) = FLAG BYTE/Bit 2: W/P setting

0 = PANEL

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1 = WORKSTATION
Value in PointValue (6) = FLAG BYTE/Bit 3: Secondary R/L setting
0 = LOCAL
1 = REMOTE
Value in PointValue (7) = FLAG BYTE/Bit 4:
1 = CONTROLLER OUTPUT LIMITED HIGH
Value in PointValue (8) = FLAG BYTE/Bit 5:
1 = CONTROLLER OUTPUT LIMITED LOW
Value in PointValue (9) = FLAG BYTE/Bit 6: Ctrl Bypass State
0 = Bypass not active
1 = Bypass active
Value in PointValue (10) = FLAG BYTE/Bit 7: Alarm indicator
0 = No alarms
1 = Alarm present (See ALARM BYTE)
Value in PointValue (11) = ALARM BYTE/Bit 0: (Only valid if BIT 1 = 1)
0 = ALARM 4 is LEVEL 2 alarm
1 = ALARM 4 is LEVEL 1 alarm
Value in PointValue (12) = ALARM BYTE/Bit 1:
0 = No ALARM 4 exists
1 = ALARM 4 exists
Value in PointValue (13) = ALARM BYTE/Bit 2: (Only valid if BIT 3 = 1)
0 = ALARM 3 is LEVEL 2 alarm
1 = ALARM 3 is LEVEL 1 alarm
Value in PointValue (14) = ALARM BYTE/Bit 3:
0 = No ALARM 3 exists
1 = ALARM 3 exists
Value in PointValue (15) = ALARM BYTE/Bit 4: (Only valid if BIT 5 = 1)
0 = ALARM 2 is LEVEL 2 alarm
1 = ALARM 2 is LEVEL 1 alarm
Value in PointValue (16) = ALARM BYTE/Bit 5:
0 = No ALARM 2 exists
1 = ALARM 2 exists
Value in PointValue (17) = ALARM BYTE/Bit 6: (Only valid if BIT 7 = 1)
0 = ALARM 1 is LEVEL 2 alarm
1 = ALARM 1 is LEVEL 1 alarm
Value in PointValue (18) = ALARM BYTE/Bit 7:
0 = No ALARM 1 exists
1 = ALARM 1 exists

Write Current Set Point or Secondary Controller Output

Description of this command:

This command is used to change the value of the setpoint or secondary controller output. It is similar to the command used for the primary controller although it has some restrictions (for example, it cannot modify the LOCAL/REMOTE status since the secondary controller is always in REMOTE mode).

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Controller Address (0-99).

Meaning of the DriverP1 parameter:

19

Meaning of the DriverP2 parameter:

Defines the STATUS BYTE (here it acts like a sub-command). This command is used to change the setpoint value or the primary controller output, as well as to change the status of some flags like A/M, R/L and to acknowledge alarms in the controller.

There is no command which allows you to change the setpoint or output only, without in turn having to indicate some other related data. Thus, it is necessary to specify in all cases the STATUS BYTE through HMITalk1.DriverP2.

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According to the value provided in HMITalk1.DriverP2, the current Analog Output value may or may not be used. The Analog Output value is only used and sent to the controller in those cases where the STATUS BYTE BIT0 is 1.

At that point, BIT5 decides if what is to be changed is the setpoint or the output. The Analog Output value must be taken to internal controller format like in the case of the WRITE COMMAND. If BIT0 is 0, the Analog Output value is not sent and the command is used to change some operation flag or to be notified of the alarm status.

STATUS BYTE:

- Bit 0: Change Indicator
- 0 = No new output or setpoint
- 1 = New output or setpoint is being specified via bits 4, 5 & 6 if incremental, or value if absolute.
- Bit 1: A/M Setting:
- 0 = MANUAL
- 1 = AUTO
- Bit 2: User interface acknowledgement:
- 0 = No acknowledgement.
- 1 = Acknowledgement.
- Bit 3: Reserved.
- Bit 4: Size of step change:
- 0 = SMALL STEP
- 1 = LARGE STEP
- Bit 5: Output Vs setpoint or W/P:
- 0 = Select panel if Bit 0 = 0
- 1 = Select workstation if Bit 0 = 0
- 0 = Change output if Bit 0 = 1
- 1 = Change setpoint if Bit 0 = 1
- Bit 6: Direction of change:
- 0 = Increment the setting.
- 1 = Decrement the setting.
- Bit 7: Alarm acknowledge:
- 0 = No acknowledge.
- 1 = acknowledge all current alarms.

Examples:

- P2 = 01h ==> Set MANUAL, LOCAL, WORKSTATION modes and without alarm acknowledgement, sending the Analog Output value as the new controller output. (Appropriate scaling is 0, 1, 0, 40)
- P2 = 20h ==> Set MANUAL, LOCAL, WORKSTATION modes and without alarm acknowledgement.
- P2 = 21h ==> Set MANUAL, LOCAL, WORKSTATION modes and without alarm acknowledgement, sending the Analog Output value as the new setpoint. (Appropriate scaling is 0, 1, 0, 40)
- P2 = 22h ==> Set AUTOMATIC, LOCAL, WORKSTATION modes and without alarm acknowledgement.
- P2 = 23h ==> Set AUTOMATIC, LOCAL, WORKSTATION modes and without alarm acknowledgement, but sending the Analog Output value as the new setpoint. (Appropriate scaling is 0, 1, 0, 40)
- P2 = A2h ==> Set AUTOMATIC, LOCAL, WORKSTATION mode and with alarm acknowledgement. (Note that in the previous commands, 80h is added to any previous command for alarm acknowledgement).

Error messages

The following list shows the possible error messages that can be returned by the driver during a failed communication in the 'Status' property.

- [1005] DRIVER (Internal): Invalid driver stage
- [1300] PROTOCOL (Timeout): No answer
- [1410] PROTOCOL (Format): Invalid device id in response
- [2147] CONFIG (NumValues): Only one value can be read or written
- [2181] CONFIG (NumValues): Too many values (max=12)
- [2185] CONFIG (NumValues): Too many values (max=125)

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[2189] CONFIG (NumValues): Too many values (max=16)
[2193] CONFIG (NumValues): Too many values (max=19)
[2203] CONFIG (NumValues): Too many values (max=250)
[2235] CONFIG (NumValues): Too many values (max=8)
[2239] CONFIG (NumValues): Too many values (max=83)
[3018] CONFIG (P0): Invalid device address (0-99)
[3508] CONFIG (P1): Invalid command
[8073] CONFIG (Remote): Controller is in PANEL mode
[8183] CONFIG (Remote): Index requested too small
[8191] CONFIG (Remote): Invalid command byte
[8194] CONFIG (Remote): Invalid data
[8220] CONFIG (Remote): No data given with command
[8225] CONFIG (Remote): No permission for download
[8339] CONFIG (Remote): Transmission error
[8367] CONFIG (Remote): Wrong number of data bytes

Supported devices

This driver can communicate with these devices, but is not necessarily limited to this list:

FOXBORO 762C Single Station Micro Controllers
FOXBORO 762CSA Single Station Micro Controllers
FOXBORO 742C Field Station Micro Controllers

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