

Host

Diagram A. Implementation of the General Model Using a Magic Object

Send a WRITE_MAGIC_BYTES message to the display module.

Send an acknowledgment byte (ACK) back to the host.

Get the size of the file and send it back to the host.

Take a screenshot of the display. Save the screenshot image to a file.

Get the filenames. Send the filenames data back to the host.

Is the message a WRITE_MAGIC_BYTES message?

Do nothing , exit.

yes

no

Is cmd equal to "MFILE_READ"?

yes

no

Perform a file read operation. Send the read data back to the host.

Is cmd equal to "MFILE_WRITE"?

yes

no

Perform a file write operation.

Is cmd equal to "MFILE_APPEND"?

yes

no

Perform a file append operation.

Is cmd equal to "MFILE_ERASE"?

yes

no

Perform a file erase operation.

X

X

X

X

X

yes

no

Is cmd equal to "MFILE_SIZE"?

yes

no

Is cmd equal to "MFILE_SCREEN_CAPTURE"?

yes

no

Is cmd equal to "MFILE_DIR"?

Parse the array pointed to by ptr for the filename.

Start constructing a reply. This is the REPORT_MAGIC_EVENT_BYTES message. Send the first two bytes.

Extract the command byte from the array pointed to by ptr. Store the command byte into the variable "cmd".

Host

Send a WRITE_MAGIC_BYTES message to the display module.

Is the message a WRITE_MAGIC_BYTES message?

no

Do nothing, exit.

yes

Diagram B. File Size Request Only Using a Magic Object

Send an acknowledgment byte (ACK) back to the host.

Is cmd equal to "MFILE_SIZE"?

no

yes

Parse the array pointed to by ptr for the filename.

Start constructing a reply. This is the REPORT_MAGIC_EVENT_BYTES message. Send the first two bytes.

Extract the command byte from the array pointed to by ptr. Store the command byte into the variable "cmd".

OUT

Get the size of the file. Send a message back to the host.

IN

See next slide.

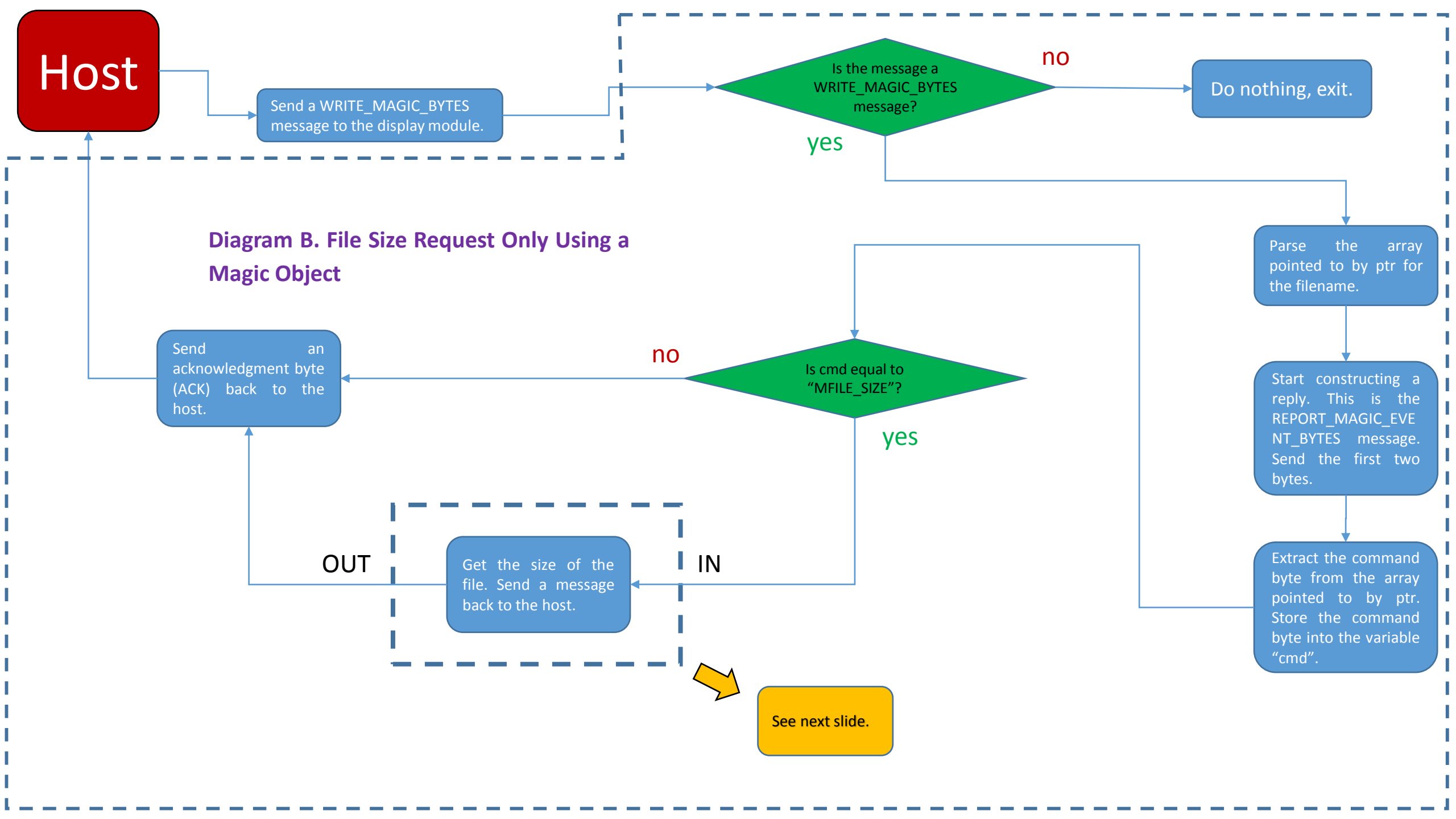


Diagram C. File Size Request Operation
(Detailed)

