# Ember Local Network API

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The printer has a local web server that provides an API that will accept a .tar.gz file containing settings and images.  It is the same endpoint used by the upload web page that the printer provides.  There is also a command endpoint for issuing commands (cancel, calibrate, etc.)

* File upload:
  + method: POST
  + endpoint: <http://192.168.7.2/print_file_uploads>
  + parameters: print\_file (multipart/form-data containing the .tar.gz file)
  + headers: Accept=application/json (to get the appropriate status code and JSON formatted message)  
      
    Example using curl:  
    curl --header "Accept=application/json" --form [print\_file=@file.tar.gz](mailto:print_file=@file.tar.gz) <http://192.168.7.2/print_file_uploads>
* Command:
  + method: POST
  + endpoint: <http://192.168.7.2/command>
  + parameters: command
  + The command parameter can be any of the following:
    - START - Performs the same action as if someone presses the start button
    - CANCEL - Cancel the print currently in progress
    - PAUSE - Pause the print currently in progress
    - RESUME - Resume printing after pausing
    - RESET - Reset printer
    - REFRESH - Reread settings from settings file (/var/smith/config/settings)
    - TEST - Project a test image
    - CALIMAGE - Project a projector calibration image
    - SHOWPRINTDATADOWNLOADING - Show a message on the front panel display indicating that a download is in progress
    - SHOWPRINTDOWNLOADFAILED - Show a message on the front panel display indicating that a download has failed
    - GETSTATUS - Return the current status of the printer
    - GETBOARDNUM - Return the board serial number of the printer
    - GETFWVERSION - Return the version string of the firmware currently in use
    - DISMISS – Dismiss the print feedback screen
* Settings:
  + endpoint: <http://192.168.7.2/settings>
  + method: GET
  + parameters: none
  + The response will contain all of the current print and printer settings, in JSON.
  + method: PUT
  + parameters: The print and/or printer settings to be set, in JSON.  
      
    Examples using curl:   
    curl -X GET <http://192.168.7.2/settings>  
    curl -d "{\"Settings\":{\"LayerThicknessMicrons\":35}}" -X PUT <http://192.168.7.2/settings>

192.168.7.2 is the IP address of the printer if it connected via USB.  Press and hold the right button on the printer to view the printer's LAN IP address (wireless or wired).  You can also determine the printer's IP address by SSHing into the printer and running “ifconfig” or by using an IP address scanner such as (<http://angryip.org/>) and looking for nodes with hostname of “ember”.