

## Keypad Code Puzzle with Audio

ERT Keypad Puzzle Kit includes

Escape Room Techs Bad ASS Audio Controller

FX45 Full I/O Expansion Board

FX18 I/O card for BAC

12-Key, metal keypad, IP65, splash proof

Professional wiring harnesses

    Keypad to FX18

    FX18 to BAC

Keypad Code Puzzle Firmware installed and configured

SD Card with the following installed:

- MP3 Audio files (Laughbad, Magicwand, Wrong, Unlock, Beep)
- Bad ASS Manager for Windows v1.8.1 (64bit)
- BAC Introduction documents
- Keypad Code Puzzle Doc

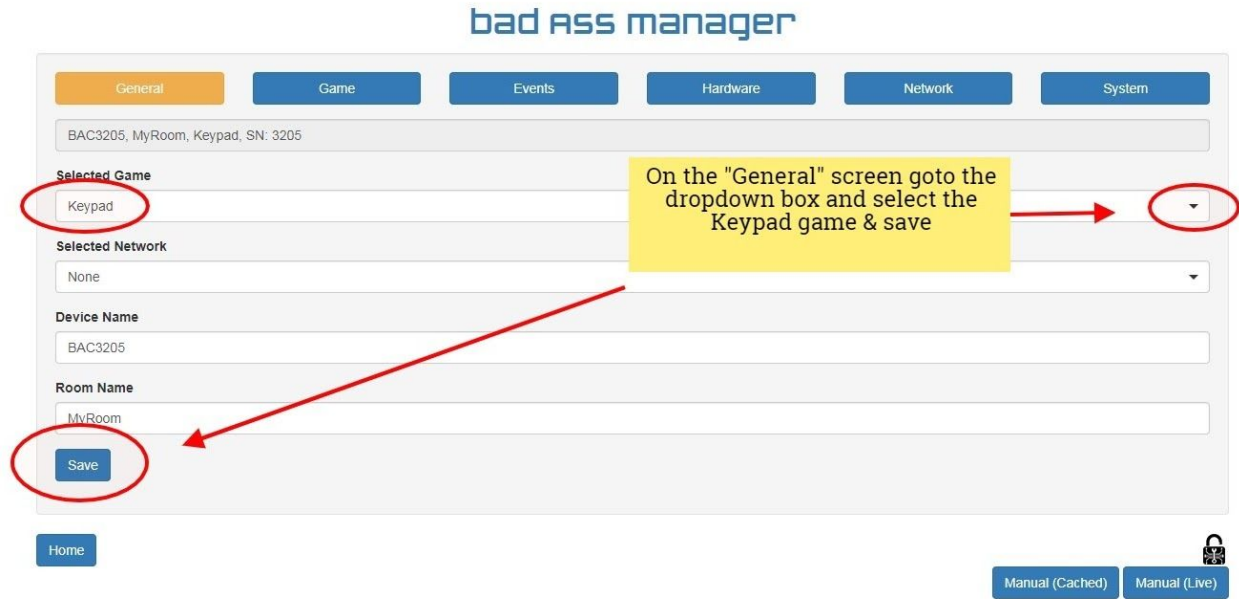
### Keypad Puzzle Framework Overview

There are anywhere from 1 to 4 configurable independent keypad codes that require the user to duplicate in order to solve successfully. For every successful solution code entered an event can be triggered.

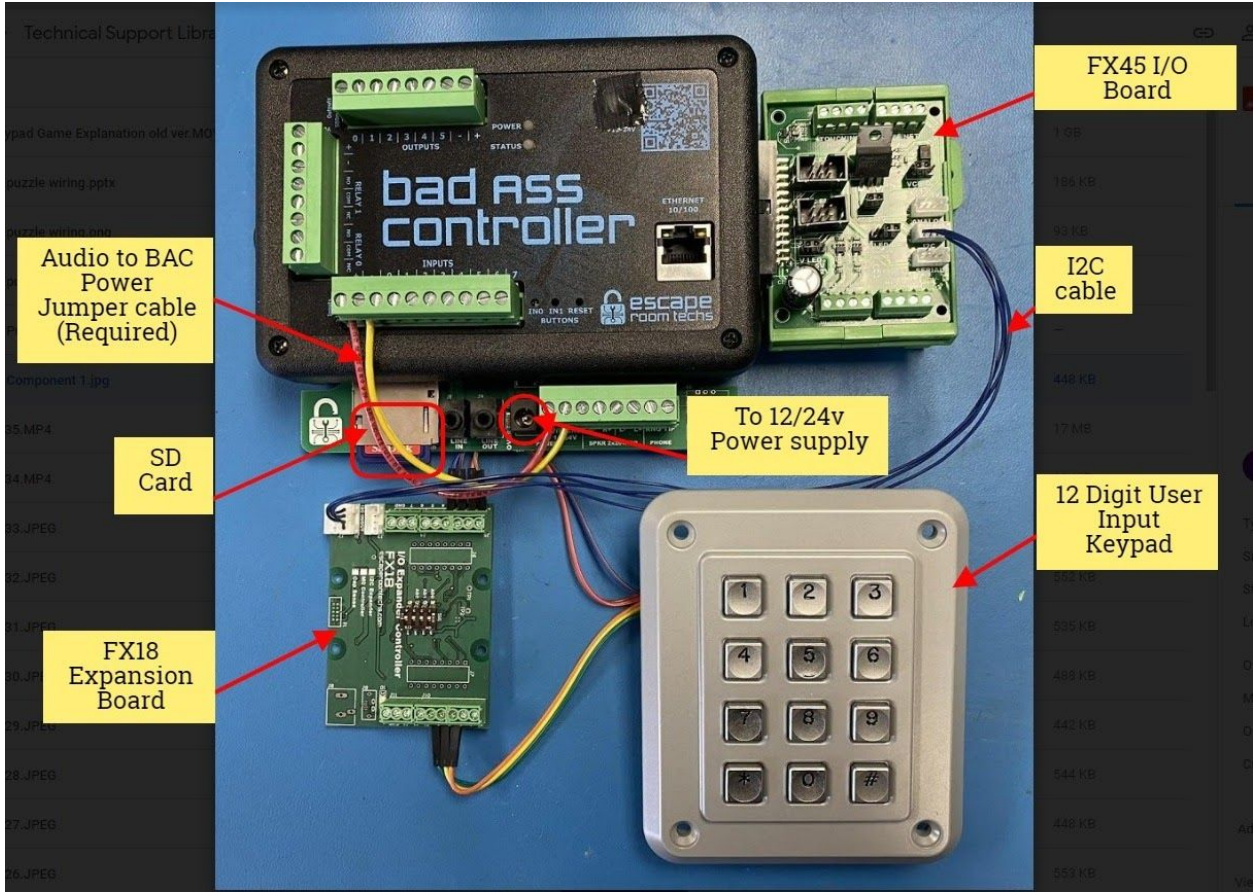
After the Hardware assembly ....Configuring the Basics within the Bad ASS Manager

After installing your hardware, connect the BAC and BAM to your network. Open the BAM and after a few seconds, the BAC will become available for configuration

On the "General" screen goto the dropdown box and select the "Keypad" game. At the bottom of the screen, click on the "save" box to saving your configuration change



At the top of the page, click on the “Hardware” box and on the hardware screen check the “Enable Audio” box. At the bottom of the screen, save your setting. Insert the SD with the puzzle’s sound files into the SD card slot in the BAC’s audio board. Do a power off reset to recognize the new hardware.



Technical Support Libr

bad Game Explanation old ver MO

uzzle wiring pots

uzzle wiring pots

component 1.jpg

55.MP4

44.MP4

43.JPEG

42.JPEG

41.JPEG

40.JPEG

39.JPEG

38.JPEG

37.JPEG

36.JPEG

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20.JPEG

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18.JPEG

17.JPEG

16.JPEG

15.JPEG

14.JPEG

13.JPEG

12.JPEG

11.JPEG

10.JPEG

9.JPEG

8.JPEG

7.JPEG

6.JPEG

5.JPEG

4.JPEG

3.JPEG

2.JPEG

1.JPEG

FX45 I/O Board

Audio to BAC Power Jumper cable (Required)

SD Card

FX18 Expansion Board

To 12/24v Power supply

I2C cable

12 Digit User Input Keypad

# bad ASS manager

General Game Events **Hardware** Network System

BAC3205, MyRoom, Keypad, SN: 3205

Detected Hardware

Internal Devices

Onboard I2C EEPROM

Note: the "FX18" Expander board is present

External Devices

FX18 IO Expander A

Hardware Configuration

Audio

Enable Audio

Audio Pinout (Restart Required)

Style B (Input 7)

Sprite Player

After your reboot, the Bad ASS Manager will automatically refind your BAC. Return back to the "Hardware" screen taking note of the audio file names available and volume settings. The audio files that are used for the output sounds are mp3 file type. The file name (without spaces) must include the extension when defined (ie Beep1.mp3)

SD Card

UNLOCK.MP3 171.32KB

WRONG.MP3 20.21KB

LAUGHBAD.MP3 632.40KB

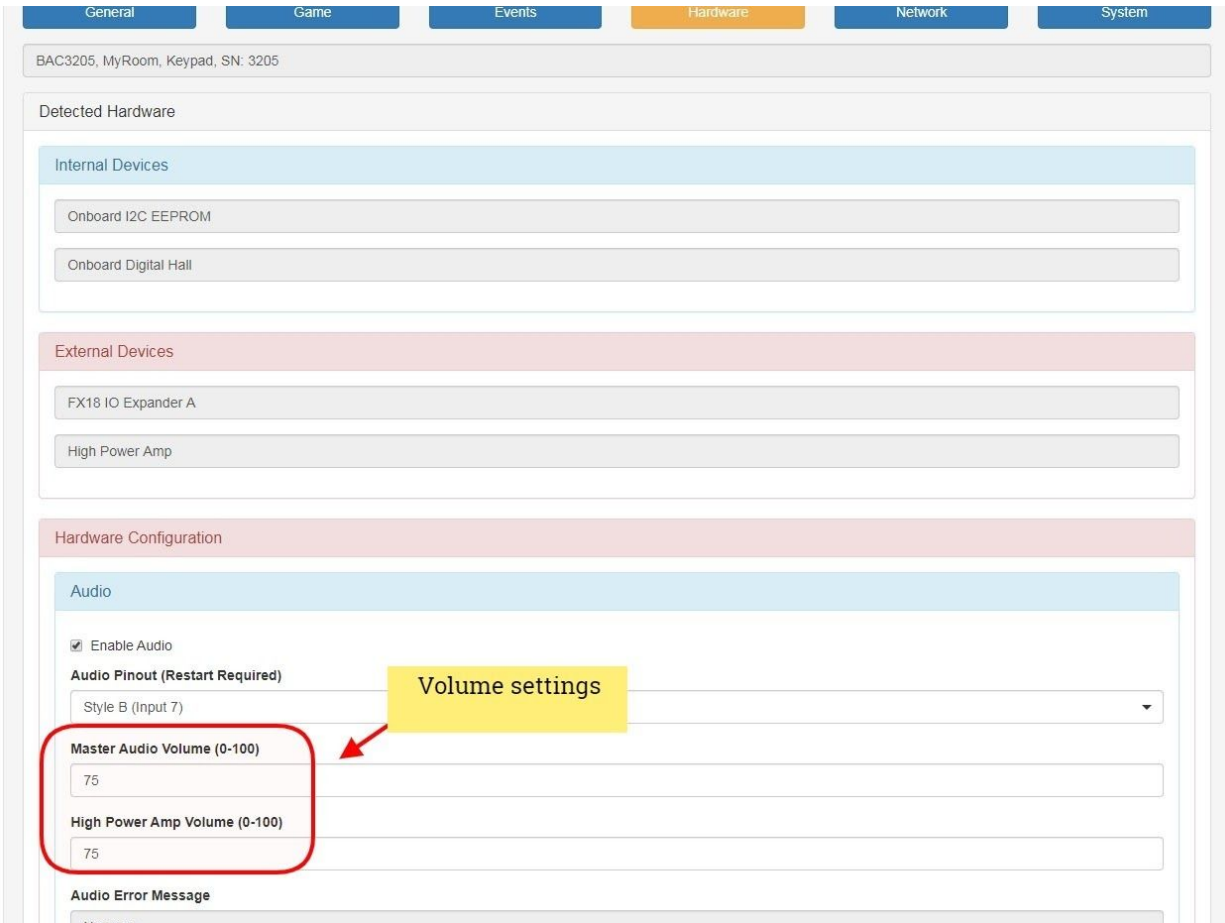
MAGICW~1.MP3 59.49KB

BEEP5.MP3 6.58KB

BEEP6.MP3 6.58KB

BEEP7.MP3 6.58KB

Once the "audio" option is enabled with the puzzle's SD sound card inserted, you will see the sounds used throughout the puzzle



## Game Configuration

Goto the “Game” screen and next to “Solution 1 through 4 enter the solve code for each solution required. The amount of allowed digits can be from 1 to 16. See the screenshots below to identify available configuration options

# bad ASS manager

General Game Events Hardware Network System

BAC3205, MyRoom, Keypad, SN: 3205

### Keypad Settings

**Input**  
FX18 A

**Inactivity Timeout (ms)**  
5000

Enable Max Length

**Max Sequence Length**  
0

**Solutions (0-9, #, \*)**

Name	Code	Event
Solution 1	Up to 16 valid digit solve code	Solve
Solution 2		No Event
Solution 3		No Event
Solution 4		No Event

**Okay Button**

Use okay button

**Okay Key (0-9, \*, #)**  
#

**Sound**

Use beep sounds

Name beep sounds on SD card beep1.mp3 through beep12.mp3, corresponding to each key

**Annotations:**

- If no key is pressed within 5 seconds, the input will timeout and the user must re-enter his key press'
- Limits the amount of key presses that can be entered (Max press are 16)
- Valid code digits
- Up to 16 valid digit solve code
- There are from 1 - 4 unique keypad solution codes that can be configured each with its own corresponding output event
- End of sequence key option verifies user input code has completed

Keypad button press sounds

# bad ASS manager

General Game Events Hardware Network System

BAC3205, MyRoom, Keypad, SN: 3205

### Keypad Settings

**Input**  
FX18 A

**Inactivity Timeout (ms)**  
5000

Enable Max Length

**Max Sequence Length**  
8

**Solutions (0-9, #, \*)**

Name	Code	Event
Solution 1	1234	customEvent0
Solution 2	33333	Solve
Solution 3		No Event
Solution 4		No Event

**Annotations:**

- user input button presses limited to 8 before solution fails and resets
- user solve codes for solution 1 and 2
- Output event options

## Defining your output Events

Its within your “Events” screen where output actions are defined. In the example in the screenshot above “Solution1” when solved will execute a custom user definable output event “CustomEvent0” and “Solution2” will execute the “solve”event, the BAM’s predefined “puzzle solved” ending output event.

First lets define the custom event, goto the “Events” screen and then into the “Custom” events screen. In the top left box labeled “Custom Event 0”, find the “Action 1” dropdown box and scroll down choosing the “Play Sound” option and in the “Options” box, type in the mp3 file name you want to play when “solution1” is solved. In this case, “magicwand.mp3”. If there were additional outputs that need to be triggered like a maglock, the same format is repeated (ie in the dropdown in “Action 2” select “Turn on Output” and in the “options” box input the number where

## Wiring Diagram

