**SB\_SCOREBUG – Support Documentation**

**1. Preparing a Rpi3 to become a Scorebug**

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| **Step** | **Action** |
| Install Raspberian | As per official documentation |
| Install Teamviewer | Download and install as per Teamviewer for RPI3 website (from here onwards, all modifications can be done remotely) |
| Put Settings | 1. Install correct keyboard settings in Raspberry Configuration Menu  2. Install 1280x720 as default resolution in same Menu |
| Install Software | 1. Make directory in /home/pi called Panel2Net with  mkdir /home/pi/Panel2Net  2. Copy Panel2Net.py into Panel2Net directory via Teamviewer (https://github.com/tomkohler/Panel2Net/blob/master/Panel2Net.py) |
| Give Scorebug a unique name | 1. Open Software with nano /home/pi/Panel2Net/Panel2Net.py  (Important: entry is case sensitive)  2. You should see on line 18: # THIS IS THE UNIQUE DEVICENAME  3. Please enter on line 19: DEVICE\_ID = ‘SB\_BASEL’  (or the appropriate name from Appendix 1 for the club) |
| Edit Autostart | 1. Take administrator rights with sudo su  2. Go to autostart directory with  cd /home/pi/.config/lxsession/LXDE-pi (Important: entry is case sensitive)  3. Edit the file with nano autostart  4. Go down with cursor and add  @lxterminal -e /usr/bin/python3 /home/pi/Panel2Net/Panel2Net.py  5. Save and Quit (with ^O for saving, confirming the filename  and ^X for Exit) |
| Reboot | Once the RPi is back, it should automatically open a command window that looks the following.  Initalising…  Opening Port…  Waiting for Serial Input… |

**2. Preparing the SB\_Scorebug in the venue**

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| **Step** | **Action** |
| Connect to Console | Put the console plug into the panel console (see Appendix 3) |
| Network | In the rare case that the SB\_Scorebug is connected via an Ethernet Cable to the internet, make sure that this cable is connected; Wifi will come up automatically |
| Power Up | 1. Put the power supply into a 220V socket  2. Put the mini USB plug into the SB\_Scorebug Socket (see image) |
| Verify | After latest 30 seconds, the SB\_Scorebug should appear in Teamviewer |

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| USB to Console (Appendix 3) | Power Supply 220V | SB\_Scorebug Power Socket |

**3. Troubleshooting**

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| **Step** | **Action** |
| SB\_Scorebug not visible on Teamviewer | Connectivity via Ethernet:  1. Make sure that the Ethernet Cable is well connected from the SB\_Scorebug to the router 2. Make sure that the router is up and running 3. Reboot SB\_Scorebug by unplugging the power cable, wait 10s and put the power cable back  Connectivity via Wifi: 1. Connect the Scorebug via Ethernet Cable to the router 2. SB\_Scorebug should now become visible 3. Intervene with Teamviewer to set the correct Wifi (see Appendix 1) |
| SB\_Scorebug not booting | Ask the Operator to Connect the SB\_Scorebug via HDMI Cable to Elgato; this allows to use XSplit as screen for the SB\_Scorebug (even though you cannot interact, as there is no keyboard / mouse that you can operate)    If that does not give you any useful indication:  1. There is a second memory card taped on the side of the SB\_Scorebug  2. Power off the SB\_Scorebug  3. Remove the initial memory card  4. Insert the new memory card  5. Power up SB\_Scorebug |
| XSplit not showing the results automatically | 1. Check that SB\_Scorebug behaves correctly  2. Check that there are entries on the backend by triggering <http://swb.world/abcd/SB_BASEL-lastaction.xml> (replace SB\_BASEL) with the correct name of the SB\_Scorebug; you should get an XML file with the latest results (provided that the console already sends data)  3. Check that in XSplit on the Scorebug Tab, there is the right Scorebug Name configured ie <http://swb.world/abcd/SB_BASEL-lastaction.xml>  In case that you don’t have the appropriate XSplit file, then  1. Open Windows Explorer  2. Go to C:\XSplit Material/SBL Assets 2017/  3. Edit the current XSplit presentation: SBL\_Scoreboard.BPres (or similar, the local operator might have edited that)  4. Open the file with Notepad  5. Replace All <http://swb.world/abcd/SB_XXXXX-lastaction.xml> (xxxxx being the current entry for the Scorebug with the correct entry, see Appendix 1)  6. Save the file  7. Restart XSplit |

**Appendix 1: Scoreboard Names by Club**

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| Club Name | SB\_Name | Panel | SSID/Password |
| Pully Lausanne Foxes Espoirs | SB\_LAUSANNE | Moba |  |
| Pully Lausanne Basket |
| Hélios VS Basket | SB\_HELIOS | Moba |  |
| BBC Monthey | SB\_MONTHEY | Swiss2 |  |
| Riviera Lakers | SB\_VEVEY | Strama |  |
| Starwings Basket Regio Basel | SB\_BASEL | G+D\* |  |
| Lions de Genève | SB\_GENEVE | Strama |  |
| Villars Basket | SB\_VILLARS | Moba |  |
| BC Winterthur | SB\_WINTERTHUR | Moba |  |
| Juice Bellinzona | SB\_BELLINZONA | n/a |  |
| Meyrin Basket | SB\_MEYRIN | Swiss1 |  |
| Baden Basket 54 | SB\_BADEN | Moba |  |
| Espérance Sportive Pully | SB\_PULLY | Moba |  |
| BC Boncourt | SB\_BONCOURT | Moba |  |
| SAM Basket Massagno | SB\_MASSAGNO | Strama |  |
| MARI GROUP Riva Basket | SB\_RIVA | Moba |  |
| Fribourg Olympic | n/a | n/a | n/a |
| Groupe E Académie Fribourg U23 |
| BCF Elfic Fribourg |
| Elfic Fribourg Génération |
| Genève Elite Basket | SB\_GENELITE | Strama |  |
| Union Neuchâtel Basket | SB\_NEUCHATEL | Swiss1 |  |
| BBC Nyon | SB\_NYON | Moba |  |
| Swiss Central Basketball | SB\_LUZERN | Alge\* |  |
| Portes du Soleil BBC Troistorrents | SB\_TROISTORRENTS | Moba |  |
| Lugano Tigers U23 | SB\_LUGANO | Moba? |  |
| Lugano Tigers |
| Grasshopper Club Zürich | SB\_ZURICH | Swiss1 |  |
| Grasshopper Club Zürich U23 |
| BC Alte Kanti Aarau | SB\_AARAU | Moba |  |
| Morges-Saint-Prex | SB\_MORGES | Moba+ Strama |  |

**Appendix 2: Get the Wifi Connectivity (SSID and Password) from a Window PC:**

1. Via a specific software: https://www.magicaljellybean.com/downloads/WiFiPasswordRevealerInstaller.exe
2. With this Windows10 based approach: https://www.addictivetips.com/windows-tips/how-to-view-passwords-for-wifi-networks-in-windows-10/
3. With this Win10 command line approach
   1. Show every Wifi Access Point (even when offline): netsh wlan show profiles
   2. Show password for specific Access Point: netsh wlan show profile name=WifiConnectionName key=clear

**Appendix 3: Panel Types and Cables**

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| Panel Type | Photo of Cable |
| Mobatime (needs serial extension cable, NOT a Null Modem cable)  [Commercial Cable] |  |
| Stramatel Cable (needs a 6 pin DIN plug)  [Custom Made Cable] |  |
| SwissTiming 1 (needs a DB0 Y-cable where the head of the Y goes into the panel)  [Grey Cable is Commercial, Colored Cable is Custom-Made] |  |
| SwissTiming 2 (needs an Amphenol Y-cable where the head of the Y goes into the panel)  [Custom Made Cable] |  |