QUICK SETUP GUIDE

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Glossary

SBB	OnAir+ Set Back Box
RCU	Remote Control Unit
IR	Infrared: the signal used to drive most television
RF4CE	Radio Frequency for Consumer Electronics. The radio signal used to drive the OnAir+ SBB
HSIA	High Speed Internet Access. The hardware and software solution used to allow guests to access the internet.
VLAN	Virtual Lan. The method used to separate broadcast domains within the same network.
SSID	Service Set Identifier. An SSID is a unique ID that consists of up to 32 characters and is used for naming wireless networks.

Preface

Purpose of this document

This document is intended for use by customers and/or network administrators as a guide for installing and configuring the OnAir+ SBB.
The guide is targeted for use by medium/high skilled installers and/or technicians with medium networking knowledge.
If you do not have sufficient knowledge to complete the tasks in this guide please contact your local vendor for support.

Please read this manual carefully before operating your set and retain it for future reference.
Note that specifications are subject to change without notice.

Safety

CAUTION: DO NOT REMOVE COVER NO USER-SERVICEABLE PARTS INSIDE REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

WARNING: TO PREVENT FIRE OR ELECTRIC SHOCK HAZARD, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

WARNING: Do not install this equipment in a confined space such as a book case or similar.

CAUTION: Do not block any ventilation openings. Install in accordance with the manufacturer's instructions. Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from over heating. The openings shall be never be blocked. This product shall not be placed in a built- in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instruction has been adhered to.

CAUTION concerning the Power Cord:
Most appliances recommend they be placed upon a dedicated circuit;
That is, a single outlet circuit which powers only that appliance and has no additional outlets or branch circuits. Check the specification page of this owner's manual to be certain. Do not overload wall outlets. Overloaded wall outlets, loose or damaged wall outlets, extension cords, frayed power cords, or damaged or cracked wire insulation are dangerous.
Any of these conditions could result in electric shock or fire. Periodically examine the cord of your appliance, and if its appearance indicates damage or deterioration, unplug it, discontinue use of the appliance, and have the cord replaced with an exact replacement part by an authorized service center. Protect the power cord from physical or mechanical abuse, such as being twisted, kinked, pinched, closed in a door, or walked upon. Pay particular attention to plugs, wall outlets, and the point where the cord exits the appliance. To disconnect power from the mains, pull out the mains cord plug. When installing the product, ensure that the plug is easily accessible.

CAUTION: The apparatus shall not be exposed to water (dripping or splashing) and no objects filled with liquids, such as vases, shall be placed on the apparatus.

Important Notes About Battery Usage : Alkaline batteries are strongly recommended; do not use rechargeable batteries. Check local your local regulations for proper disposal.

FCC Compliance Statement: This device complies with part 15 of the FCC rules.
Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

FCC Interference Statement: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Caution: To assure continued compliance, any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

FCC Radiation Exposure Statement: This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. The antennas used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

Important Safety Instructions

1. Read and keep these instructions.
2. Heed all warnings.
3. Follow all instructions.
4. Do not use this apparatus near water.
5. Clean only with dry cloth.
6. Do not block any ventilation openings.
7. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
10. Only use attachments/accessories specified by the manufacturer.
11. Refer all servicing to qualified service personnel.
12. Servicing is required when the apparatus has been damaged in any way, such as power- supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

Step 1 : Overview of the equipment

Before you start

You will need available and ready to use:-

- Television with an available HDMI input
- Television original remote control
- OnAir+ boxed kit containing the following
- OnAir+ SBB (set back box)
- OnAir+ remote control
- OnAir+ Power Pack
- CAT 5 patch lead (for used with wired connectivity only)
- HDMI cable

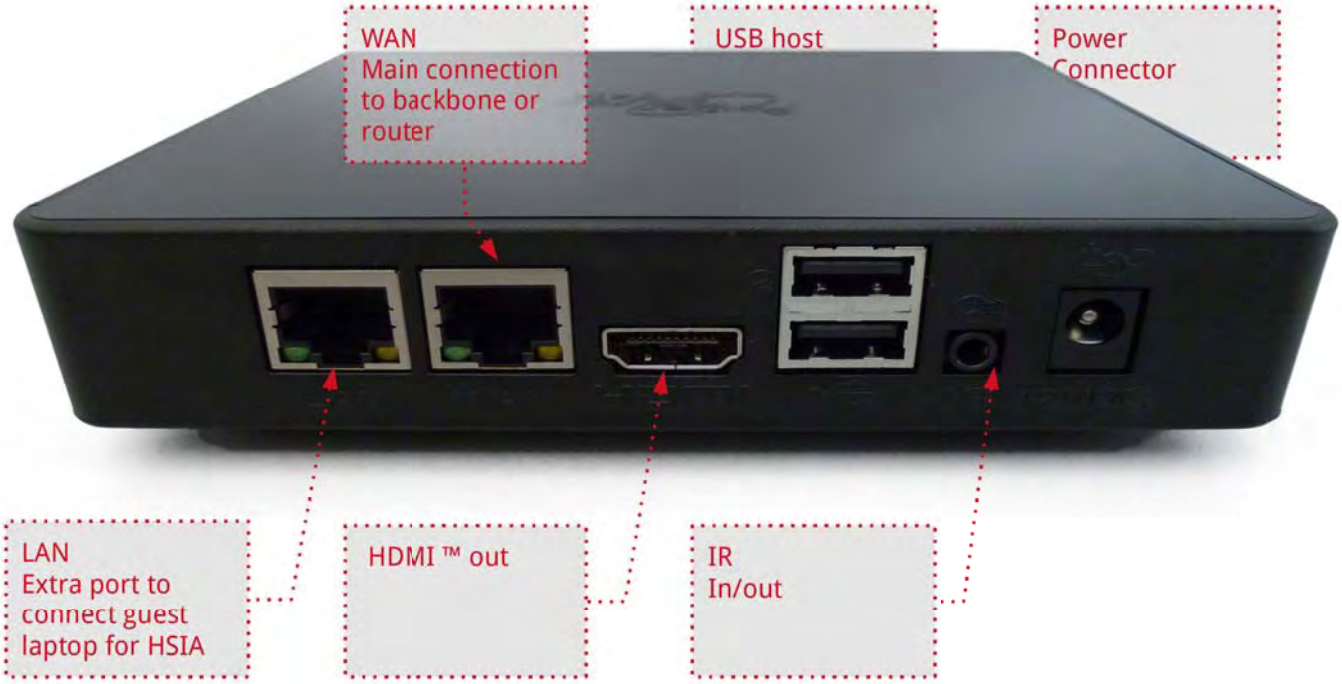
If you plan to connect to the network/internet using a hard wired connection you will need:-

- Your network connection details - IP Address, Mask, Gateway Address and DNS etc.

If you plan to connect to the network/internet using WiFi you will need:-

- Your Wi-Fi network connection details – SSID, appropriate security key etc.

OnAir+ Set Back Box



OnAir+ Remote Control Unit

Status LED
red and green led blinks during code transmission or special codes during setup.

Info key
Show OSD text about current channel

Numeric keys
Used for direct channel access or entering value

Back
Will return to previous condition or go back one step while browsing the GUI

Colored keys have different functions based on context

Each app will display an appropriate help

channel up/down

Battery Installation

Remove the battery cover on the rear of the RCU, and insert two R03 (size AAA) battery with + and - matched correctly.
Battery life is approximately three years, depending on usage.

On/Off button
Used to switch the television and OnAir box together, from standby to on and vice versa.

Source button
Based on the configuration setup and television, can select alternate a/v sources

Home :
Will jump the home page of the GUI.

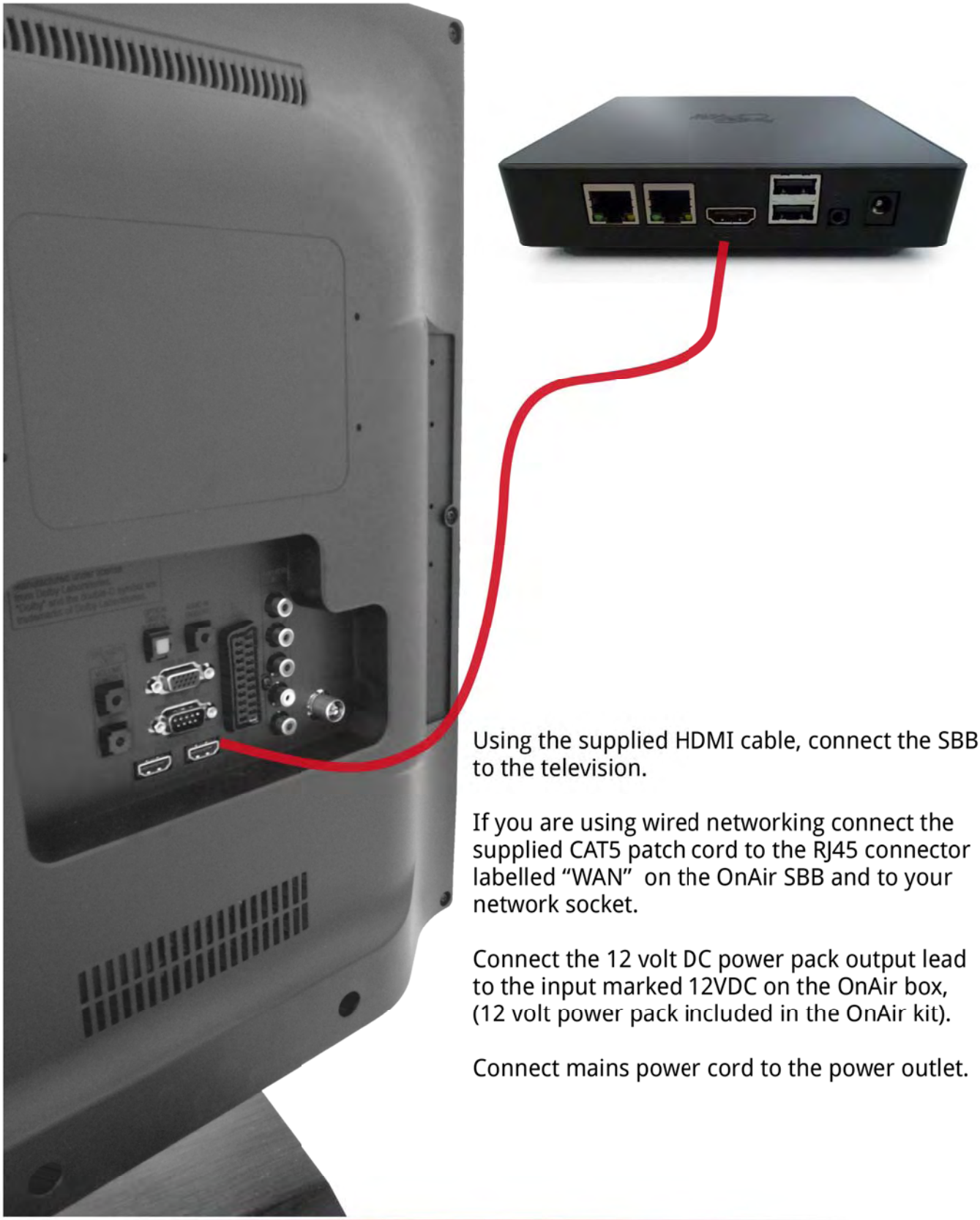
Navigation pad
Used to navigate within GUI and also for channel language selection when available.

App button
Will display the application bar when available.

Volume control

Transport button
Used in combination video and audio player when available.

Step 2 : Connecting the OnAir+ Set Back Box.



Using the supplied HDMI cable, connect the SBB to the television.

If you are using wired networking connect the supplied CAT5 patch cord to the RJ45 connector labelled “WAN” on the OnAir SBB and to your network socket.

Connect the 12 volt DC power pack output lead to the input marked 12VDC on the OnAir box, (12 volt power pack included in the OnAir kit).

Connect mains power cord to the power outlet.

Step 3 : Preparation

Preparing the television

The OnAir+ SBB works best when it can control the television using HDMI CEC protocol, CEC protocol is implemented in most in modern televisions.
Enter the televisions configuration menu using the televisions original remote control unit and confirm that the CEC is enabled. Refer to the televisions user manual if you are not familiar with the televisions configuration setup menu.

Please note that different TV manufacturers refer to the CEC protocol using their own 'Trade Names', some examples of 'Trade Names' used for the CEC protocol are:

Anynet+ (Samsung); Aquos Link (Sharp); BRAVIA Link and BRAVIA Sync (Sony); HDMI-CEC (Hitachi); E-link (AOC); Kuro Link (Pioneer); CE-Link and Regza Link (Toshiba); RIHD (Remote Interactive over HDMI) (Onkyo); RuncoLink (Runco International); SimpLink (LG); HDAVI Control, EZ-Sync, VIERA Link (Panasonic); EasyLink (Philips); and NetCommand for HDMI (Mitsubishi)

The initial guided procedure[1]

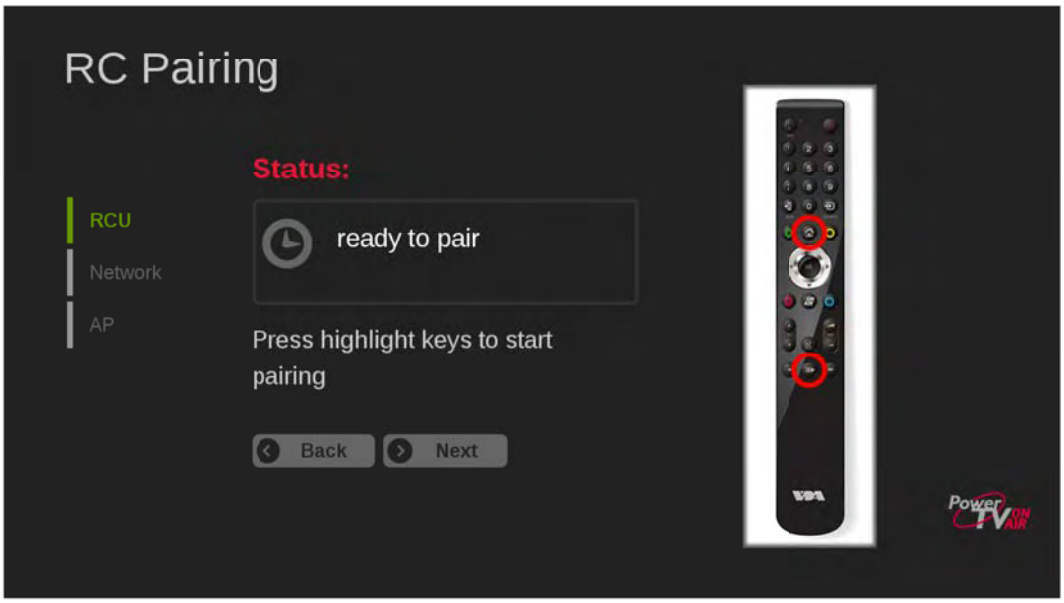
Now that the SBB is connected and powered-up, switch on the television and select the source connection of the OnAir+ SBB (normally HDMI1) .
All OnAir+ SBBs are shipped unconfigured (factory default) and in this initial state will display a guided setup procedure that must be completed before the SBB can be used.

The following chapters will guide you through the setup procedure, the procedure starts with the pairing request page, shown immediately after the splash screen graphic displayed during the boot process.

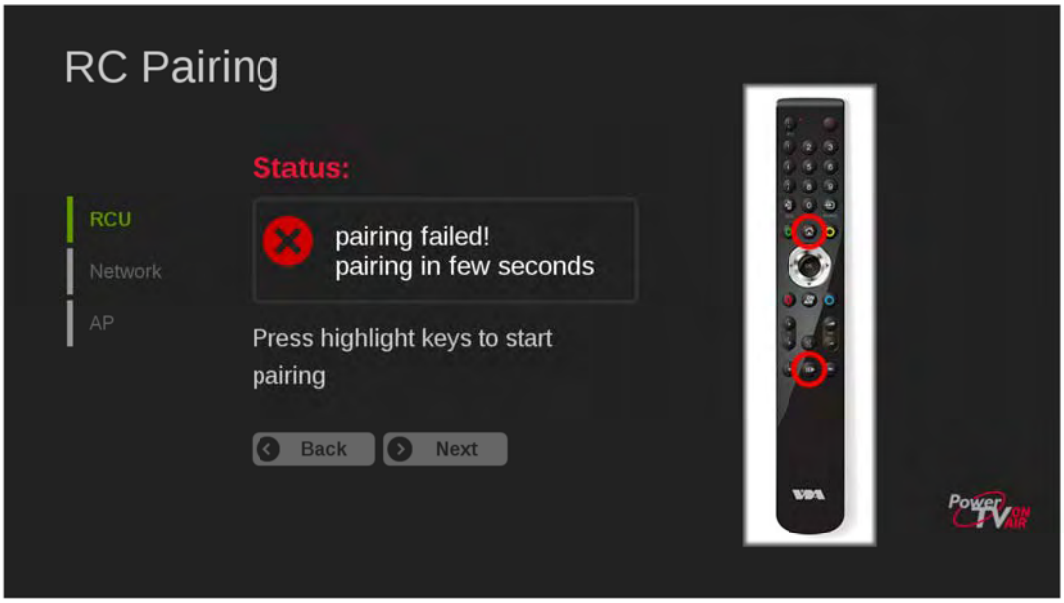
1 Once the initial setup procedure has been successfully completed it will not be shown again. However the SBB can be reset to factory defaults to restart the initial setup procedure if required. See the troubleshooting chapter for detailed instructions

Step 4 : Pairing the Remote Control Unit

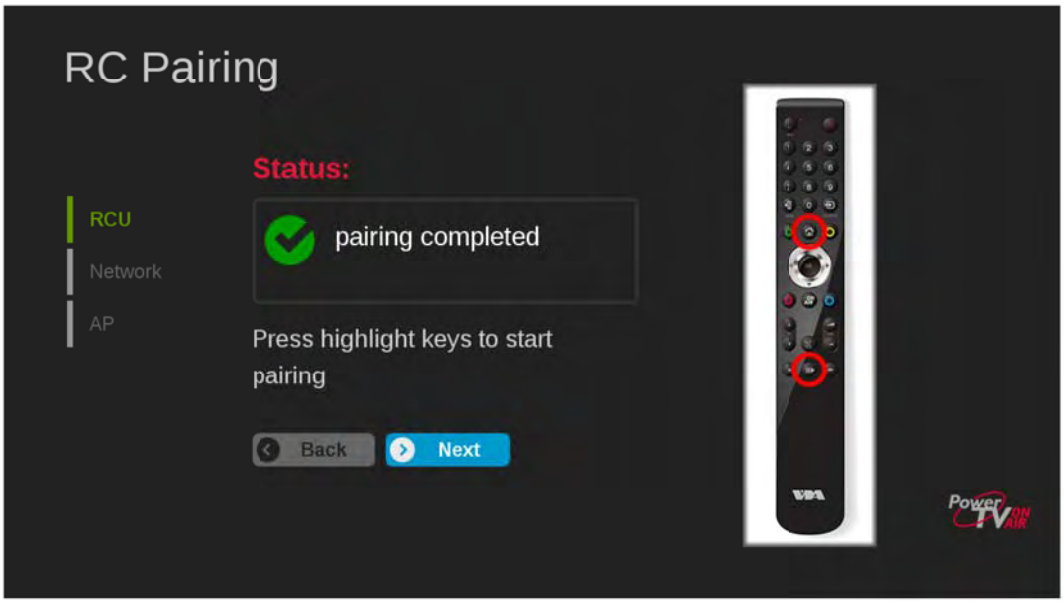
The remote, included in the OnAir+ kit, must be 'one to one' linked with the OnAir+ SBB. This step is called 'pairing', once a remote is paired with a SBB it will only send commands to that SBB, it cannot send commands to other SBBs.



To 'pair' the OnAir+ remote with the OnAir+ box press and hold 2 buttons (and) for about 8 seconds until the red LED starts pulsing, the remote is now trying to pair with the SBB.



A successful paring will show the image below, if it fails simply retry the procedure.
A remote control must be successfully paired with the OnAir+ SBB before you can proceed to the next step.



When pair has been achieved, select next and click ok

Additional information about the RCU (Remote Control Unit) is described on chapter 'Define the System Environment' on page 28, please refer also to Troubleshooting guide on page 31.

Step 5 : Network - which connection?

You will now be prompted to select the way you intend to connect the OnAir+ SBB to the network - Wired or Wireless.

You will also be prompted to enter the Room and TV Number[2] which must be unique identifiers within the whole of the hotel/property; this 'Common Data' is independent of network configuration.

Certain configurations require the unique 'Hotel Code' to be manually entered, this code was provided when OnAir+ was purchased.

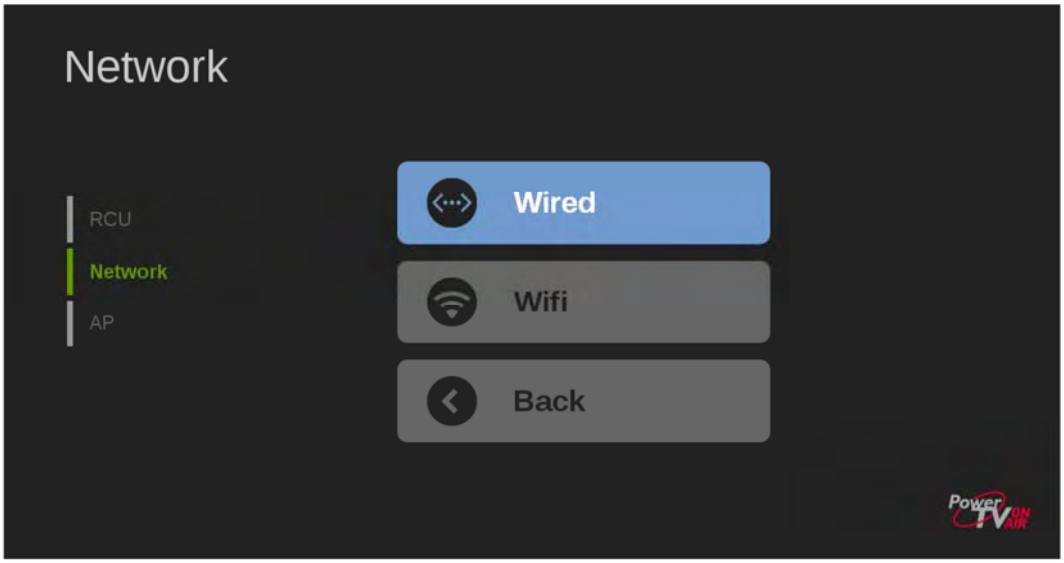
Please have all 'Common Data' details, 'Hotel Code' and appropriate network information to hand before proceeding[3].

2 TV number is the way to assign multiple TVs within the same room, for example when installing a suite.

3 Data for numeric only fields can be entered using the RCU, for fields requiring alpha-numeric data a virtual keyboard is available by pressing the blue RCU button when the field is highlighted.

Wired

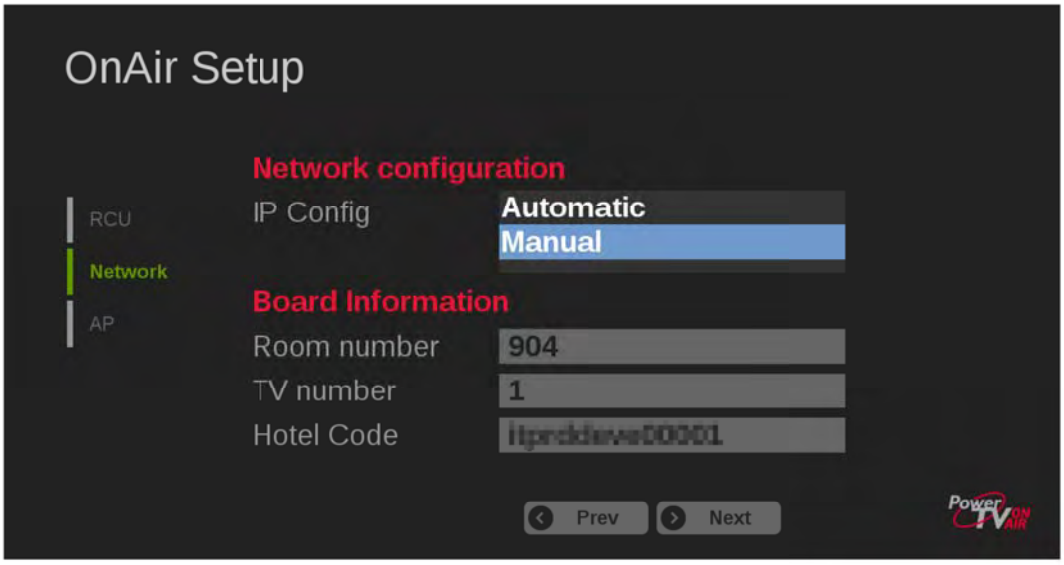
Direct cable connection between the OnAir+ SBB and the network/internet. IP address assignment to the SBB will be based on your networking preference or IT requirements; you can choose either Manual or Automatic, which in turn defines the number of mandatory fields that will have to be entered.



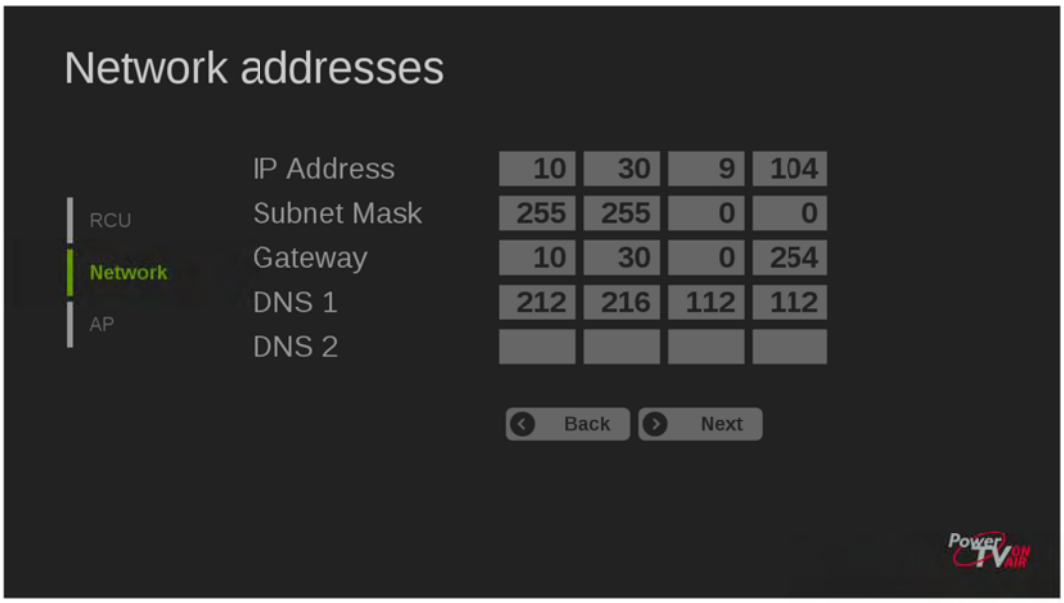
Select 'Wired' and click ok to proceed with next step.

Manual:

Requires all IP details, 'Common Data' and 'Hotel Code' to be entered manually; the combination of 'Hotel Code and 'Common Data', uniquely identifies the SBB with in the hotel/property. Please take care when entering the 14 digit 'Hotel Code' as entering an incorrect code will result in the failure of the following connectivity test.



When all the fields are completed, select next and click ok to proceed to next step.



When all the fields are completed, select next and click ok to proceed to next step.

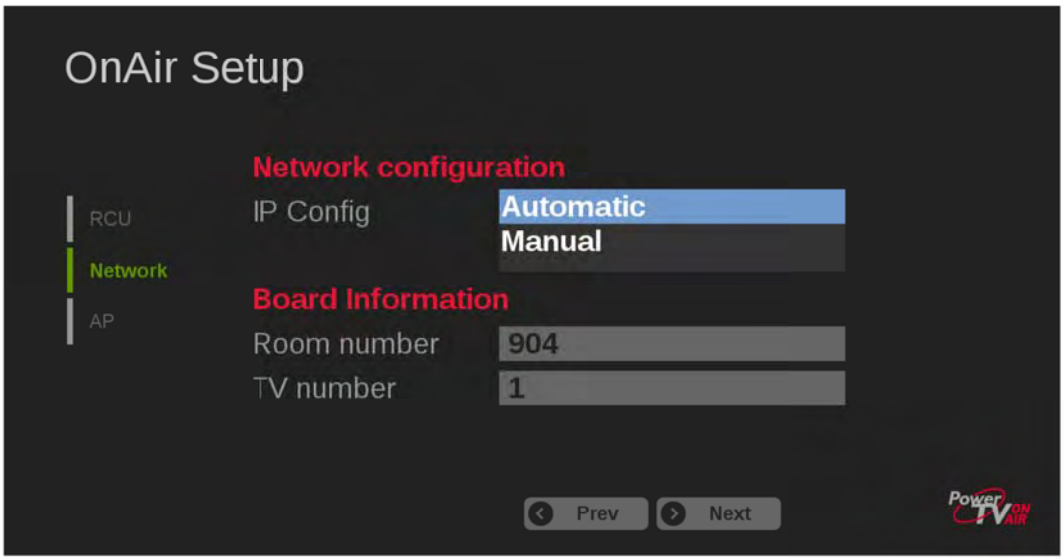
The above screen shot displays the input mask for the IP details, where all the fields are

mandatory apart for DNS 2, which is optional.
The above screen shot displays the input template for the IP details, all the fields are mandatory except for DNS 2, which is optional.

Manual IP configuration is now complete, skip the next section and continue with Connectivity check on page 17.

Automatic:

If a VDA Appliance Server is available on the network only 'Common Data' must be entered manually other parameters are provided automatically by the Appliance Server. If a generic DHCP server (i.e. home router) is used then 'Common Data' and the 'Hotel Code' must be entered manually[4].
Standard DHCP discovery protocol is used to implement this feature and it will detect (based on the incoming reply) if there is missing data that must be entered manually.
The screen shot below, shows the input template when Automatic is selected.



When all the fields are completed, select next and click ok to proceed to next step.

4 OnAir+ Appliance Server has to be installed, configured and made available on the same network as the OnAir+ SBB before starting the installation of OnAir+ SBBs with Automatic configuration, or the Automatic procedure will fail. The 'Hotel Code' information is only available from the OnAir+ Appliance Server, when using generic DHCP servers the Hotel Code has to be entered manually.