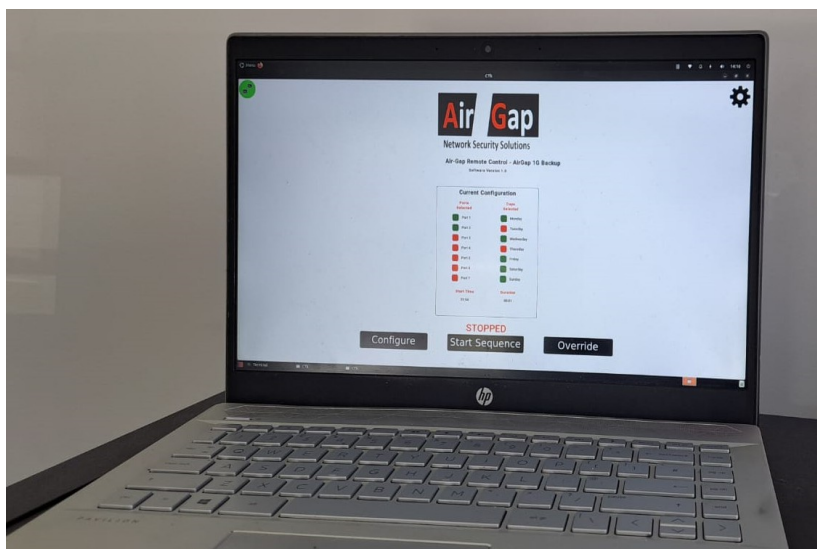


Air Gap

Network Security Solutions

AG000-017 Remote Control User Manual



Overview

The Air Gap Remote Control is an application which can run on either Windows or Linux laptop or desktop computers and provides remote control operation of the Air Gap Backup products.

The Air Gap Remote Control user interface replicates the user interface of the Air Gap Backup and operates the functions of the Air Gap Backup in the same way as a local user would.

When the Air Gap Remote Control is connected to the Air Gap Backup local control of the Air Gap Backup is inhibited and the GUI greyed out.

The Air Gap Remote Control allows a user to remotely control and monitor an Air Gap Backup seamlessly from anywhere in the world.

Installation Instructions

The Air Gap Remote Control is distributed on a USB drive and is installed on a Laptop or Desktop computer.

Insert USB stick into computer to which it will be installed.

Windows

Double click on Air-Gap_Remote_Control.exe

When asked “Do you want to allow this app from an unknown publisher to make changes to your device?” select “Yes”.

Follow all subsequent instructions.

Connecting to the Air Gap Backup

Setup the Air Gap Backup in accordance with the Air Gap Backup User Manual.

Start the Air Gap Remote Control application.

The Air Gap Replicate and Restore initially displays the Main screen as shown below.

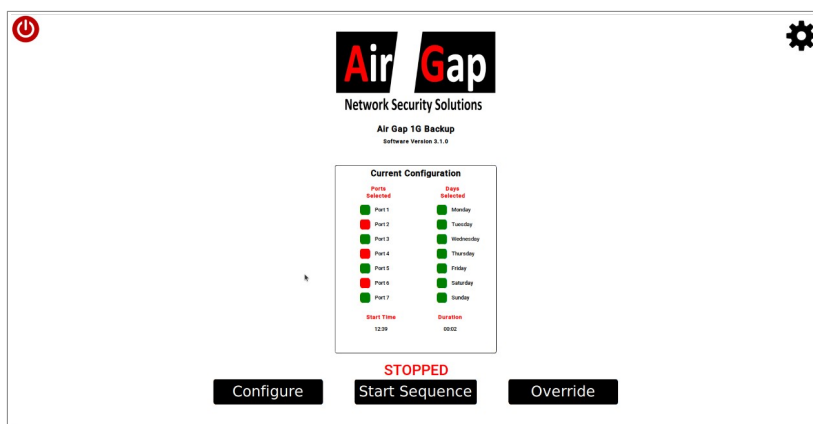


Fig 1 - Air Gap Remote Control Main screen

On Main Screen Press Settings icon - top right – to display the Settings screen as shown in Figure 2 below.

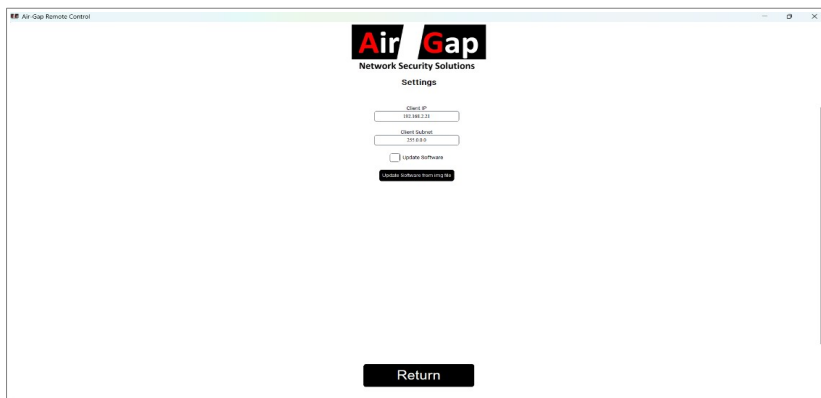


Fig 2 - Air Gap Remote Control Settings screen

Obtain the Air Gap Backups IP address from the settings screen on the Air Gap Backup.

Entered the Air Gap Backup's Ethernet address into the Air Gap Remote Control Client IP address box.

Press Return to return to the Main screen.

On Main Screen press the Red Connection icon - top left.

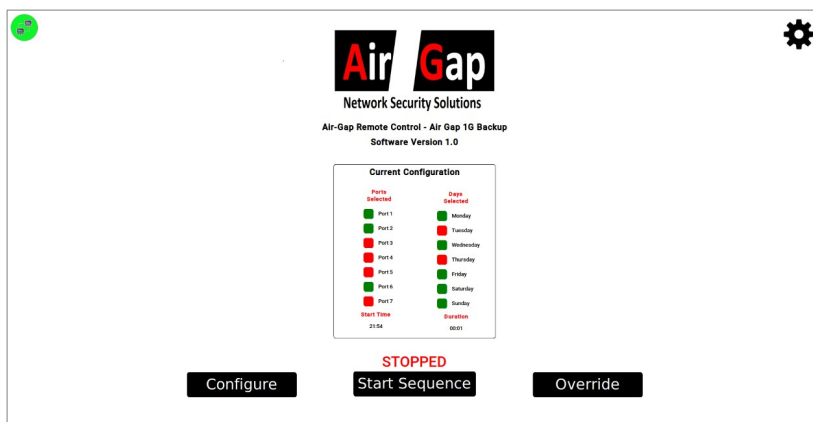


Fig 3 - Air Gap Backup Main screen as shown on Air Gap Remote Control

The connection icon will initially display in orange whilst the Air Gap Remote Control is connecting to the Air Gap Backup and will display green when connected to the Air Gap Backup.

Once connected the GUI on the Air Gap Backup will become greyed out to signify to a user that the GUI on the Air Gap Backup GUI is inoperable and the Remote Control Main screen will replicate the settings on the Air Gap Backup.

The Air Gap Remote Control Main Screen will display the type of product (Air Gap 1G Backup for instance) that is connected to the Air Gap Remote Control below the Air Gap Logo for example “Air Gap Remote Control – **Air Gap 1G Backup**”.

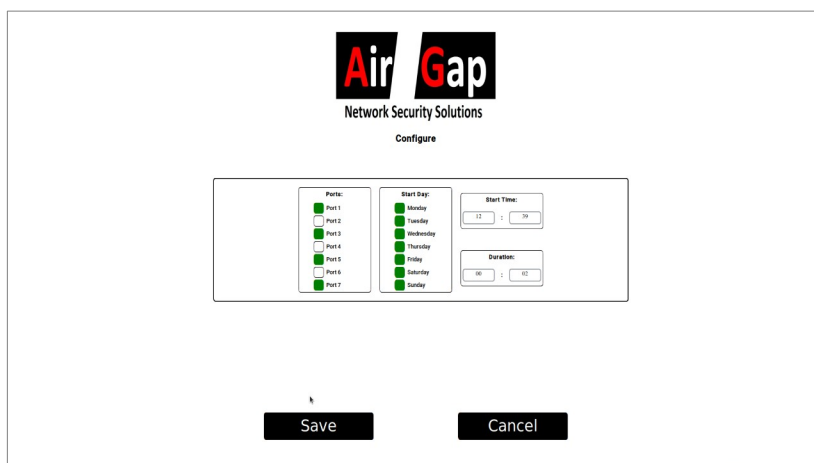
Prior to being connected via Ethernet to an Air Gap Backup the GUI of the Air Gap Remote Control will only allow a user to access the Settings screen via the Settings icon (top right) and the connection icon (top left) on the Main screen.

Configuring the Air Gap Backup

Configuring the Air Gap Backup set the ports to be used, backup schedule (day and time) and duration ports are connected.

To configure the Air Gap Backup remotely from the Air Gap Remote Control press the Configure button on the Main screen.

The Configure screen will display as shown below



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Configure

Ports:

☒ Port 1

☒ Port 2

☒ Port 3

☒ Port 4

☒ Port 5

☒ Port 6

☒ Port 7

Start Day:

☒ Sunday

☒ Monday

☒ Tuesday

☒ Wednesday

☒ Thursday

☒ Friday

☒ Saturday

☒ Sunday

Start Time:

12 : 00

Duration:

60 : 00

Save

Cancel

Fig 4 - Air Gap Backup Configure screen as shown on Air Gap Remote Control

The configuration screen will be display 7 ports, 7 days, a start time and a duration.

The configure screen allows the user to change the Air Gap Backup product's current configuration by allowing the user to select which ports are to be connected as part of the backup

sequence, the days, start time of the backup process and duration of the backup process.

Select the ports to which there is are backup devices connected and to which backups are to be made.

Select the days on which the backups will occur.

Select the start time and duration of the backup process.

Press Save to save the settings within the Air Gap Backup.

The day and time settings should reflect the settings in your current back up schedule as set in your current backup software configuration.

When the Air Gap Backup product is set to running mode initially all ports will initially be air gapped and thus the backup device connected to it will be disconnected creating an air-gap between the input port and all 7 Ethernet air gap ports.

The inbuilt scheduler will check the current day of the week and compare this to the days of the week as set in the configuration settings.

When the current day is the same as one of the days set in the configuration the scheduler will compare the current time and the time set in the configuration settings.

When the time of day is reached the Air Gap Backup product will connect the first port configured, thus connecting the normally air gapped backup device to the network, for the duration of time set in the configuration settings, to the computer network via the input port on the Air Gap Backup. The third party backup software should thus backup the files

for backup to the now non air gapped hardware backup device.

After the duration has elapsed the port will be disconnected thus air gapping the backup device from the network inhibiting any further access to the backup device.

The scheduler continues on each successive day set in the configuration settings moving to the next active port. After all ports selected have been connected in sequence the scheduler goes back to the first configured port selected in the configuration settings and repeats the cycle.

For example, to make the unit to close ports 1 and 3 in sequence every day at 5 pm for 1 hr.

Select Port 1, 3, deselecting port 2, 4, 5, 6 and 7.

Select Mon, Tue, Wed, Thu, Fri, Sat, Sun.

Select the Start Time, 17:00, and the Duration, 1Hr.

In this configuration, when the unit is set running, port 1 will connect for 1 hour on the first day and port 3 will connect on the second day. On the third day port 1 will connect and fourth day port 3 and so on until the unit is stopped running. Press OK to accept the configuration or Return to return to the main screen without changing the current configuration.

With the example above Ports 1 and 3 should display on the Air Gap Backup with green LEDs lit on the front and rear panels indicating that they are selected ports and the main screen should display the set configuration.

The specific configuration will display differently.

Press the Start button on the Main screen to start the scheduler. At the time and day selected the normally air gapped devices will be connected in sequence to allow the backup process to run and copy files and folders to the backup location.

Setting the Air Gap Backup Running / Stopping the Air Gap Backup

To set the Air Gap Backup Running – select the Start Sequence button.

The front panel green Run LED on the Air Gap Backup should display lit and the main screen of both the Air Gap Remote



Control and Air Gap Backup should display “Running” in green.

This will load the configured sequence as described above into the devices scheduler.

In the example case at 5pm on the first day for 1 hour Port 1 will connect to the input port. This will be signified by the Port 1 orange LED illuminating during this time.

At 5pm on the subsequent day for 1 hour Port 3 will connect to the input port. This will be signified by the Port 3 orange LED illuminating during this time.

The ports will alternate on subsequent days until the unit is set to Stopped by pressing the Stop button. This will set the front panel status LED on the Air Gap Backup to red and “Stopped” will be displayed on the main screen of both the Air Gap Remote Control and Air Gap Backup.

Override Port Settings

Should the user require to access a disc drive such as in the case of a successful attack to the non air-gapped backup device, the Air Gap Backup Product allows selective connection of an air gap port to the input port.

The Override screen gives the user the ability to connect one of the back up devices at any given time. This is particularly important if it is known that the successful attack happened a number of days ago, as often happens in these circumstances, this allows disaster recovery to take place with data from a backup prior to the last saved backup if it is known that the last saved backup occurred after the successful attack.

To enter the Override screen press Override button on the Air Gap Remote Control main page. Should the Air Gap Backup Product be in the Running state then a dialogue box will be displayed asking if the Running sequence should be stopped.

The Override screen shows a log of the last 7 connections made by the Air Gap Backup Product between the input port and an air gapped port so the user can determine which backup they wish to use for the disaster recovery process.

To connect a port, for example port 3, press Port 3 and this will connect port 3 to the input port.

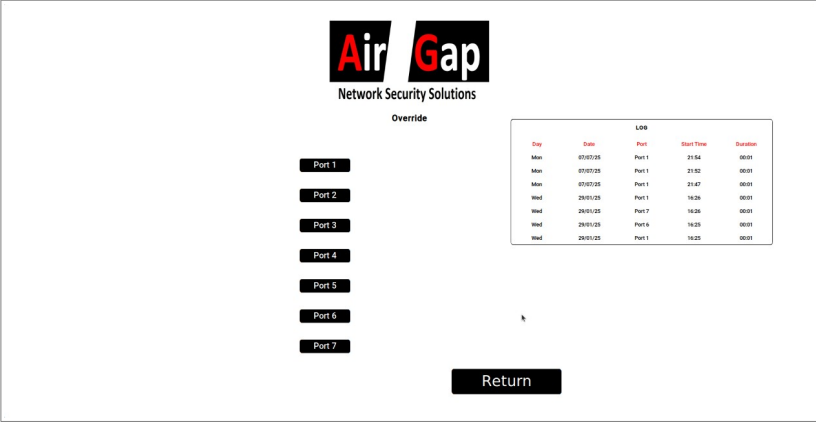


Fig 5 - Air Gap Backup Override screen as shown on the Air Gap Remote Control

Updating the Air Gap Backup

Using the Air Gap Remote Control the Air Gap Backup's software can be updated to a newer version from time to time.

To update the Air Gap Backup Download an img update from the Air Gap website, www.air-gap.co.uk, and place the image file on a memory stick or other removable media.

Within the settings screen of the Air Gap Remote Control select "Update from removable media" button and navigate and select the software update img file from the removable media.

The Air Gap Remote Control will start transferring the software update to the Air Gap Backup in the background. Operation of the Air Gap Backup and Air Gap Remote Control will not be affected during the OS updating process.

Once the Air Gap Backup software update has been successfully transferred to the Air Gap Backup the Air Gap Backup will reboot as long as the Air Gap Backup is not in the process of performing a backup.

The Air Gap Remote Control will disconnect from the Air Gap Backup and attempt to re-connect once the Air Gap Backup has rebooted. The Air Gap Backup and Air Gap Remote Control will commence operation where operation was left off.

Errors

Error	Possible Solution
Air Gap Remote Control Connect button remains orange	This signifies the Air Gap Remote Control can not connect to an Air Gap Backup Ensure the IP address for the Air Gap Backup has been entered correctly. Ensure Air Gap Backup is not behind a firewall. The Air Gap Remote Control and Air Gap Backup communicate on port 55555. If the Air Gap Backup is behind a firewall or router this port will need to be forwarded to the Air Gap Backup.