



MAGNUM-ROUTER-VCP-WEB

Web-Based Router Control Interface

User Manual

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IMPORTANT SAFETY INSTRUCTIONS

	The lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of uninsulated “Dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.
	The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (Servicing) instructions in the literature accompanying the product.

- Read these instructions
- Keep these instructions.
- Heed all warnings.
- Follow all instructions.
- Do not use this apparatus near water
- Clean only with dry cloth.
- Do not block any ventilation openings. Install in accordance with the manufacturer’s instructions.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles and the point where they exit from the apparatus.
- Only use attachments/accessories specified by the manufacturer
- Unplug this apparatus during lightning storms or when unused for long periods of time.
- Refer all servicing to qualified service personnel. 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.

WARNING

TO REDUCE THE RISK OF FIRE OR ELECTRIC – SHOCK, DO NOT EXPOSE THIS APPARATUS TO RAIN OR MOISTURE

WARNING

DO NOT EXPOSE THIS EQUIPMENT TO DRIPPING OR SPLASHING AND ENSURE THAT NO OBJECTS FILLED WITH LIQUIDS ARE PLACED ON THE EQUIPMENT

WARNING

TO COMPLETELY DISCONNECT THIS EQUIPMENT FROM THE AC MAINS, DISCONNECT THE POWER SUPPLY CORD PLUG FROM THE AC RECEPTACLE

WARNING

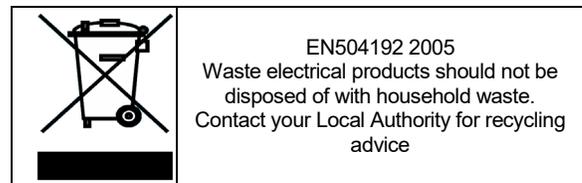
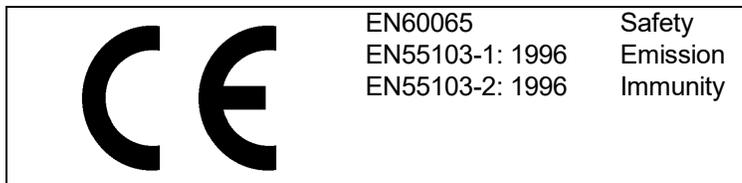
THE MAINS PLUG OF THE POWER SUPPLY CORD SHALL REMAIN READILY OPERABLE

INFORMATION TO USERS IN EUROPE

NOTE

CISPR 22 CLASS A DIGITAL DEVICE OR PERIPHERAL

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to the European Union EMC directive. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.



INFORMATION TO USERS IN THE U.S.A.

NOTE

FCC CLASS A DIGITAL DEVICE OR PERIPHERAL

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

WARNING

Changes or Modifications not expressly approved by Evertz Microsystems Ltd. could void the user's authority to operate the equipment.

Use of unshielded plugs or cables may cause radiation interference. Properly shielded interface cables with the shield connected to the chassis ground of the device must be used.

REVISION HISTORY

<u>REVISION</u>	<u>DESCRIPTION</u>	<u>DATE</u>
1.0	First Release	May 2020

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1. OVERVIEW

Web-based router control interface for MAGNUM-ROUTER control systems, aka "Web-VCP". Router control panel available by simply by launching a web browser and connecting to a licensed MAGNUM control system. Interface offers per-user authentication and profiles for controlling source and destination availability for routing.

Features & Benefits

- Accessed by launching a web browser (Chrome, Firefox, Safari) and pointing it the address of the MAGNUM server
- String search of available ports using the Filter Src or Filter DST boxes
- Source and destination categories/tags
- Assignment of custom logos to buttons
- Profiles (source/destination availability) assigned to the interface are assigned per user and is not globally shared
- User account login to prevent users from using the Admin account
- Ability to lock destinations
- Ability to protect destinations
- Ability to multi-select destinations
- Ability to recall assigned salvos
- Simple clean interface with the option of TAKE mode or TAKE toggle

Ordering Information

MAGNUM-ROUTER-VCP-WEB:

Web-based control panel, individually licensed; can be run using web browsers, including those on mobile devices. Requires a MAGNUM-ROUTER control system running MAGNUM version 1.13 or higher

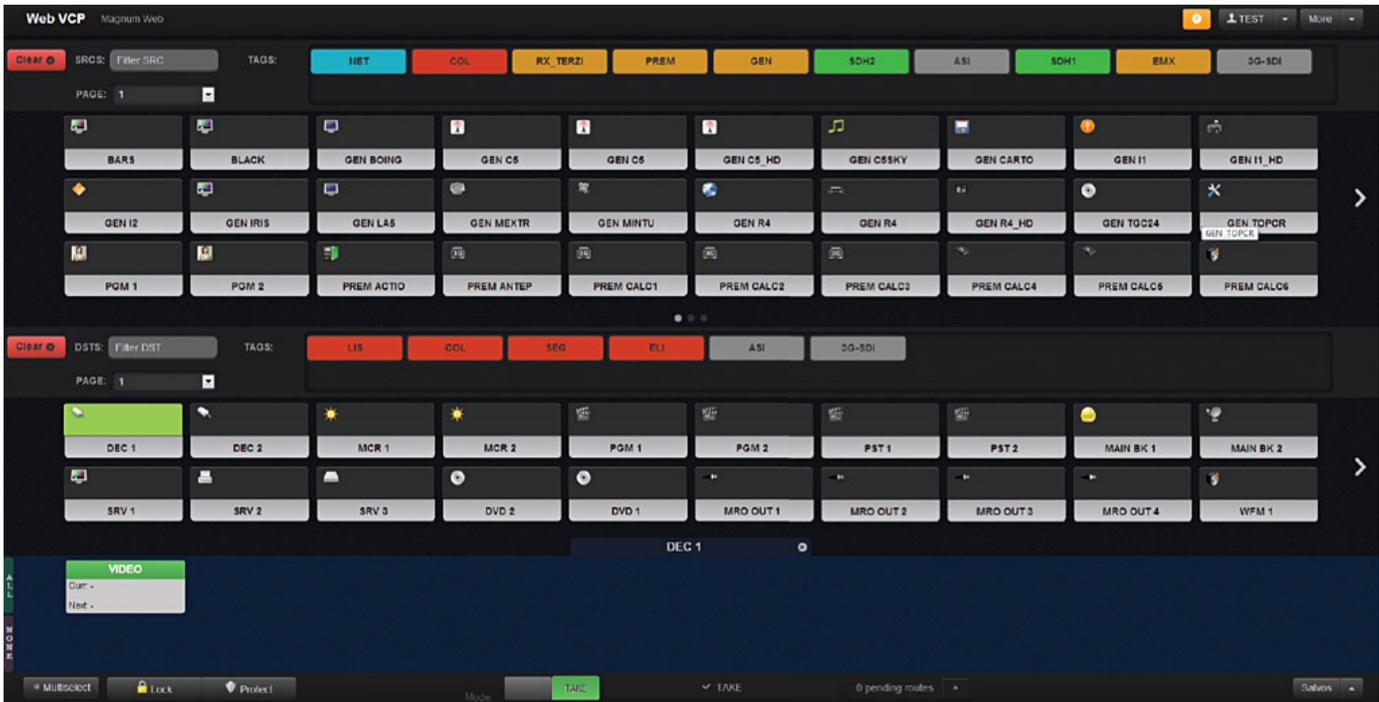


Figure 1-1: Magnum-ROUTER-VCP-WEB : Web Based Router Control Interface

2. GETTING STARTED

2.1. SETUP AND CONFIGURATION OVERVIEW OF WEB-VCP

The Magnum-Web-VCP Module is a license options that allows for a number of seated connections, which is the amount of unique IP's that can access the Virtual Control Panel page at one time.

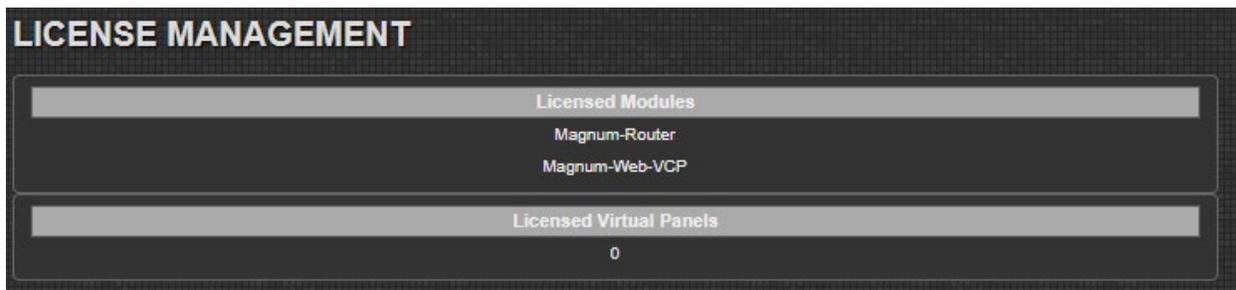


Figure 2-1: Magnum - License Management Page

The number of seats can be determined by navigating to this URL using the Cluster IP of the MAGNUM server: http://***.***.***.***/vcp/admin/.



Figure 2-2: Magnum - +5VCPW License Module

2.2. ADDING THE WEB-VCP PANEL TO THE SYSTEM

The Interfaces Multi-Profile tab allows the Model selection of WEB-VCP. The IP address for this interface is set to localhost IP of 127.0.0.1. Add all of the necessary sources and destinations needed in this interface.

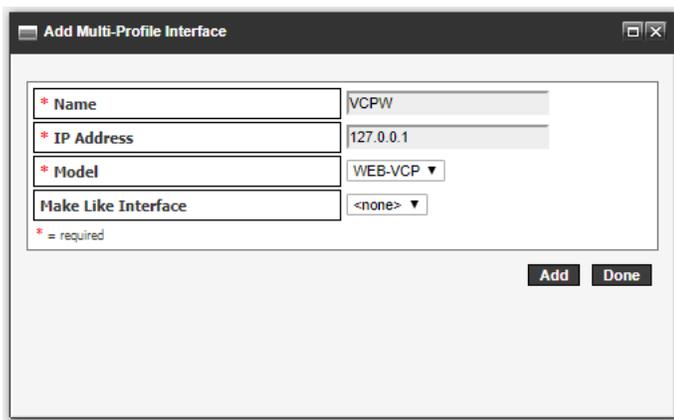


Figure 2-3: Magnum - Add Multi-Profile Interface

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3. WEB-VCP INTERFACE

3.1. MANAGING PROFILES

3.1.1. Adding & Editing Profiles

Once a WEB-VCP Interface is added, profiles created under the Profile Management tab can be made available to the Virtual Control Panel.

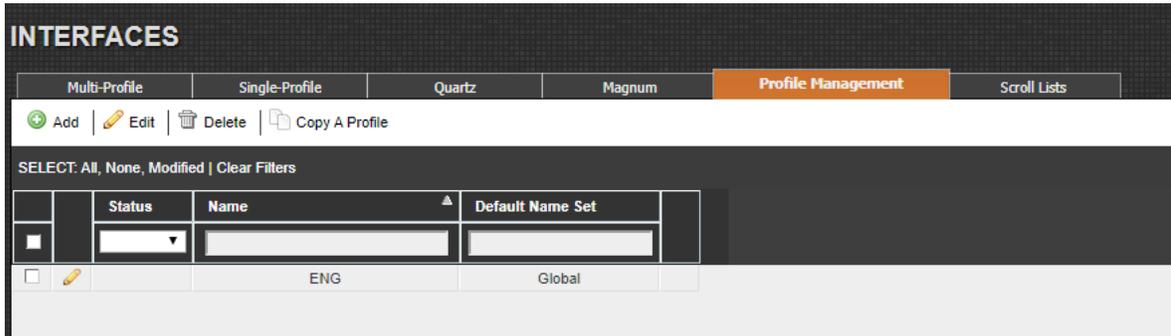


Figure 3-1: Magnum - Profile Management Tab

The availability of the WEB-VCP interface can be modified by clicking on the Edit icon associated to the added WEB-VCP interface.

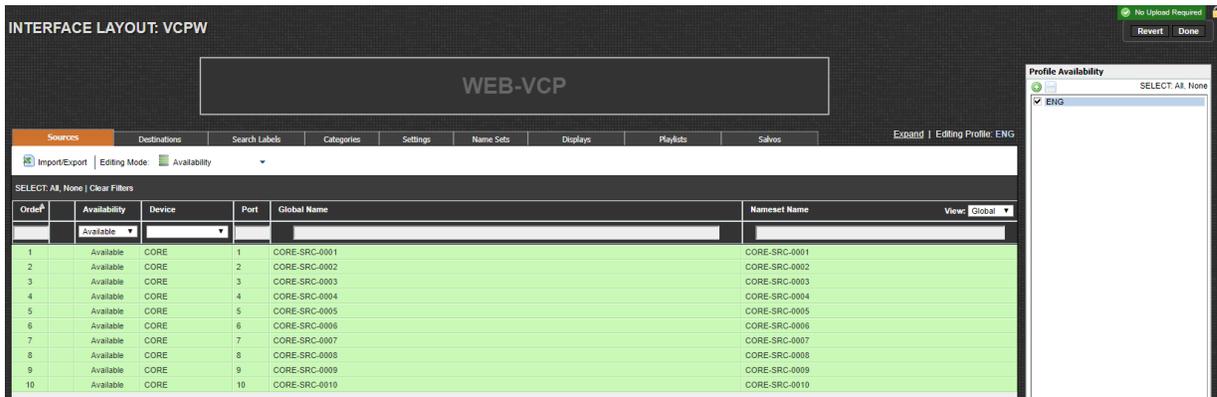


Figure 3-2: Magnum - Interface Layout

New profiles can also be created from within the Interface Layout of the WEB-VCP by clicking on the green '+' icon . The user will be prompted to enter a profile name and can select ports in the system as required.

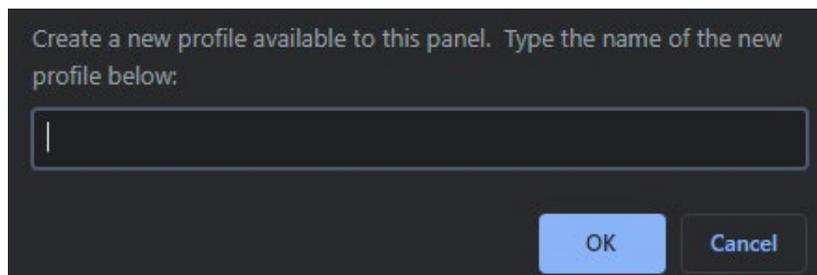


Figure 3-3: Web-VCP – New Profile Creation

3.1.2. Profile Configuration

The Group Permissions page offers the ability to set an allowance or restrictions of created profiles available to the WEB-VCP interface on a per user basis.

The user accessing the Virtual Control Panel page must have permission to load desired profiles created within the system.

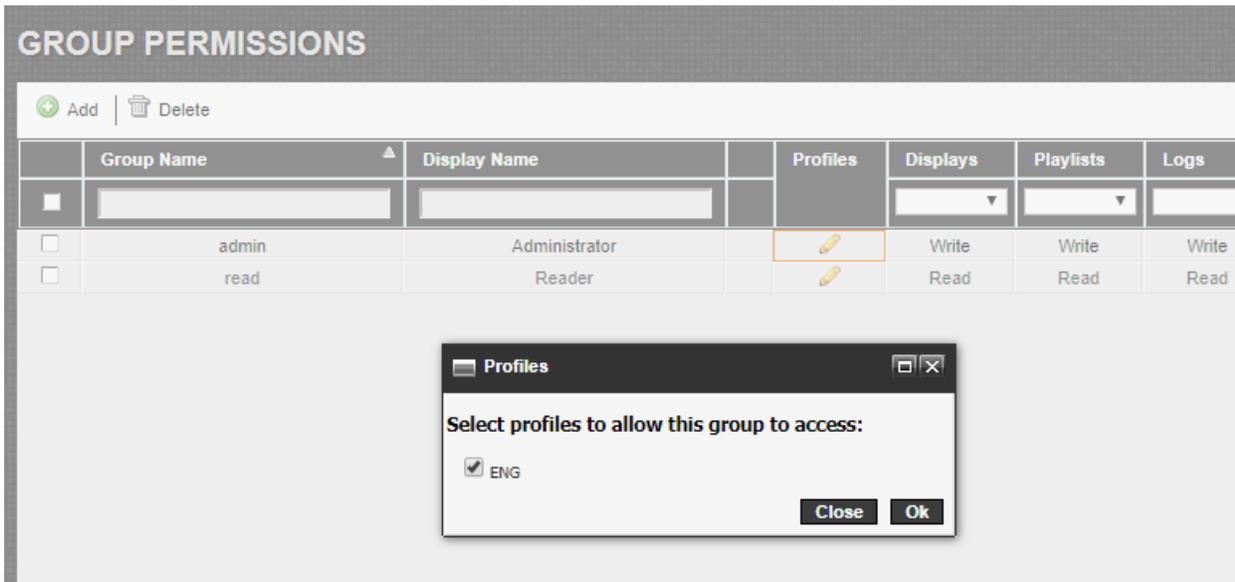


Figure 3-4: Magnum – Group Permissions Page

3.2. VIRTUAL CONTROL PANEL PAGE

If only one profile is available to the WEB-VCP interface it will be automatically selected and entered when Virtual Control Panel page is selected.

Sources available to the profile are observed along the top of the page and Destinations along the bottom.

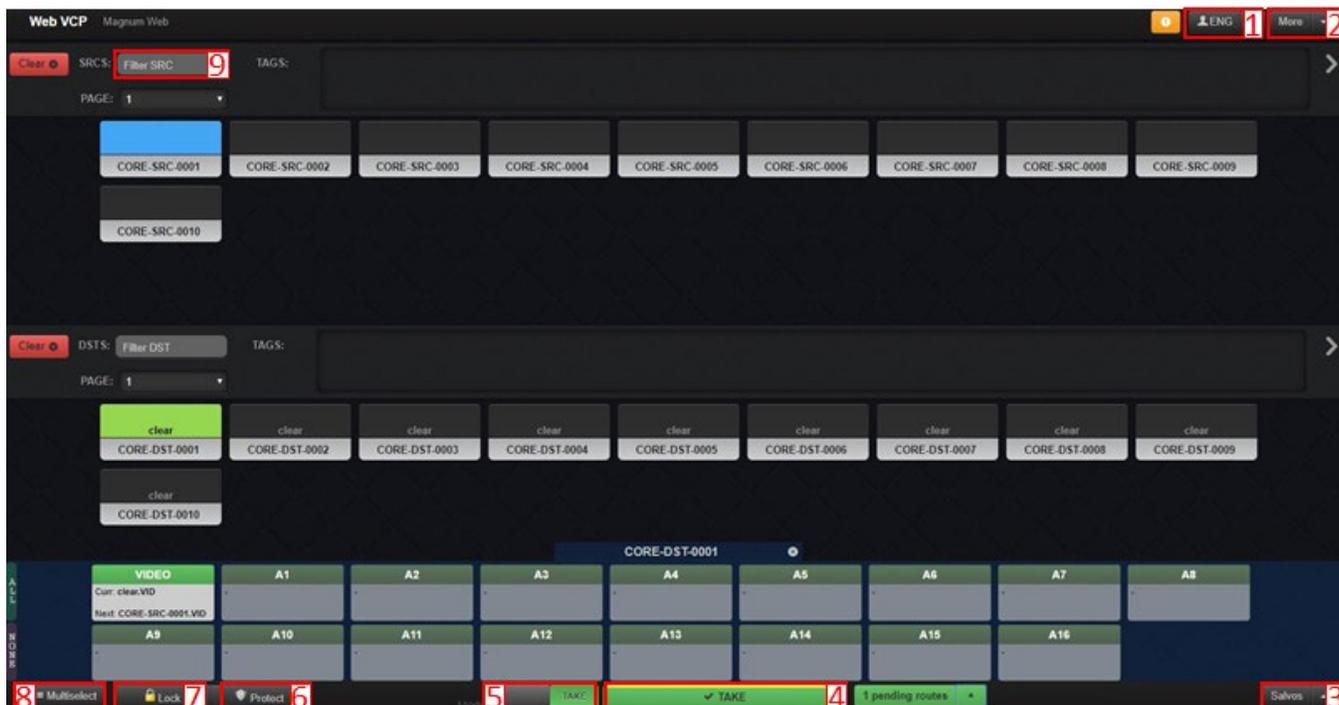


Figure 3-5: Virtual Control Panel Web Page (Web-VCP)

As highlighted and numbered in Figure 3-5, the below items will be discussed further in this manual:

- 1- Profile Selection
- 2- More Menu
- 3- Salvos Menu
- 4- Take Button
- 5- Take Toggle Slider
- 6- Protect Button
- 7- Lock Button
- 8- Multiselect Button
- 9- Filter Dropdown

3.2.1. Multiple Profiles

If multiple profiles are available to the WEB-VCP interface (and corresponding group permissions are set for those profiles) when Virtual Control Panel page is navigated to the user will be prompted to select one of those profiles.

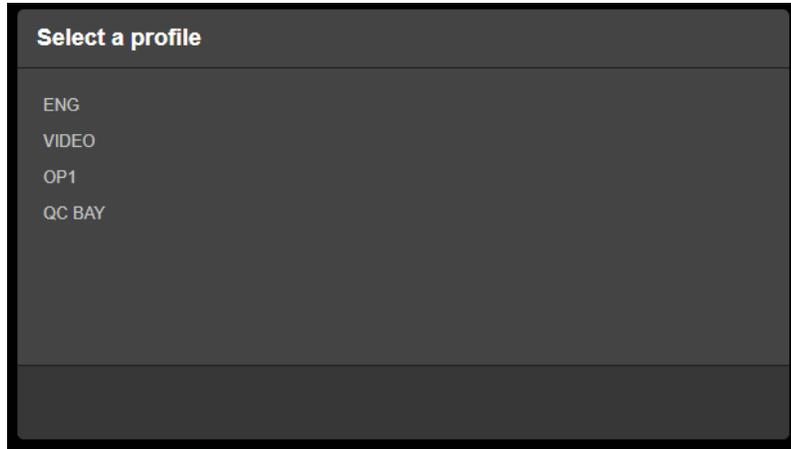


Figure 3-6: Web-VCP - Profile Selection Window

3.2.2. Switching Between Available Profiles

After opening the Virtual Control Panel page and selecting a profile the user can switch between the other available profiles by expanding the drop down menu in the top right corner of the page.

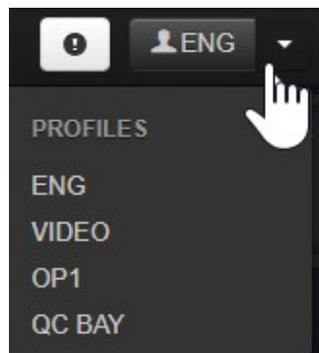


Figure 3-7: Web-VCP - Profile Selection Dropdown List

3.3. EXECUTING ROUTES

To queue up a route, click on a destination, which will tally back a green color, then click the desired source. The Virtual Control Panel page by default is set to preset the source chosen, it will be highlighted in blue and the Take button will illuminate green.

After clicking Take, the destination will tally back with the source name that was routed and the source will be automatically de-selected.

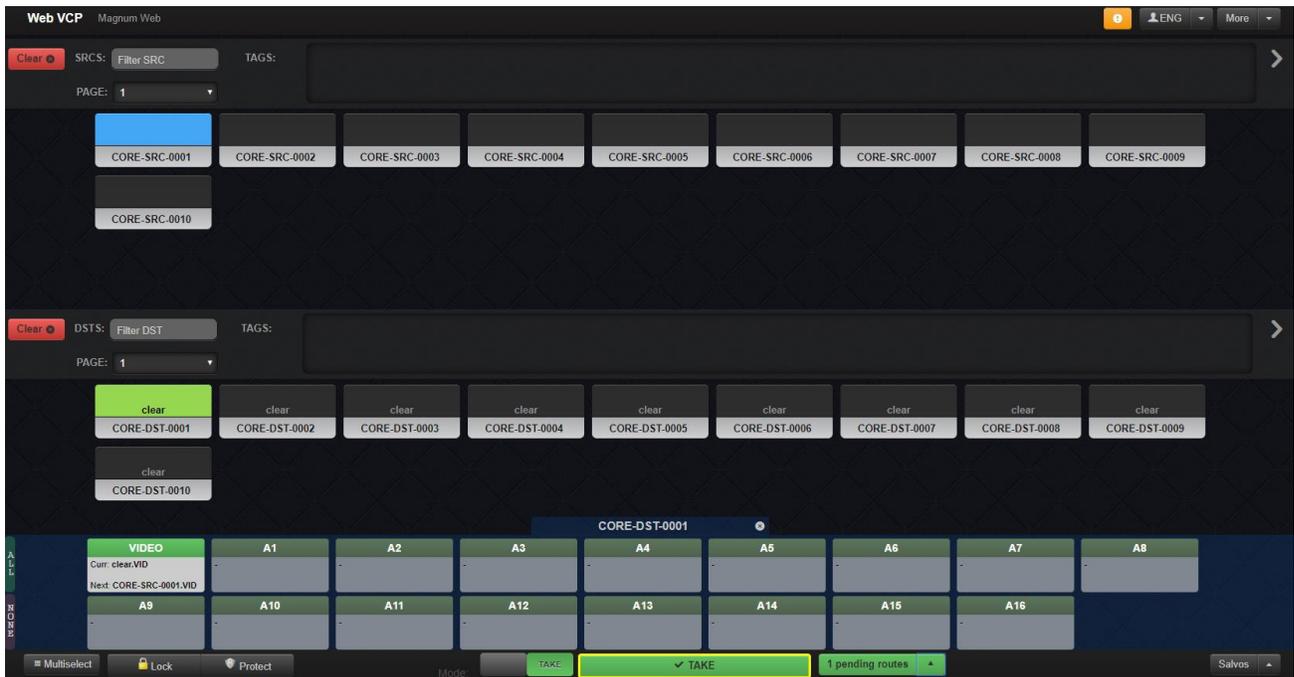


Figure 3-8: Web-VCP - Profile Selection / Executing Route

When expanded, the pending routes menu will show all the queued routes including multiple level routes.

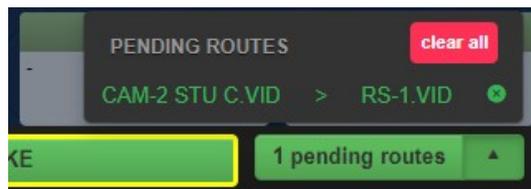


Figure 3-9: Web-VCP - Pending Routes Menu

Accessing this menu, the user may clear pending routes by clicking on the 'x' icon  to the right of the corresponding route, level, or all pending routes.

3.4. TAKE-TOGGLE

Clicking the Mode slider to the left of the take button will enable the option to Take-Toggle (regular Take mode can be returned to by clicking on the slider again).

This mode allows the presetting of another source and when Take-Toggle is clicked the source that was previously on that destination will be automatically preset again.



Figure 3-10: Web-VCP - Take-Toggle Modes

3.5. LOCK

Selecting a destination and clicking the Lock button will place a lock icon on the destination selected, the text in the lock button will switch to Unlock.

Locking a destination will prevent all locations and users from being able to route to the locked destination including the Virtual Control Panel page.



Figure 3-11: Web-VCP - Locked Destination

3.6. PROTECT

Selecting a destination and clicking the Protect button will place a shield icon on the destination selected, the text in the protect button will switch to UnProtect.

Protecting a destination will prevent all locations and users from being able to route to that protected destination excluding for the Virtual Control Panel page.



Figure 3-12: Web-VCP - Protected Destination

3.7. MULTISELECT

Clicking on the Multiselect button will enable this mode and tally back a green color.

This mode gives the user the ability to select multiple destinations allowing the same source to be routed to the selected destinations at the same time.

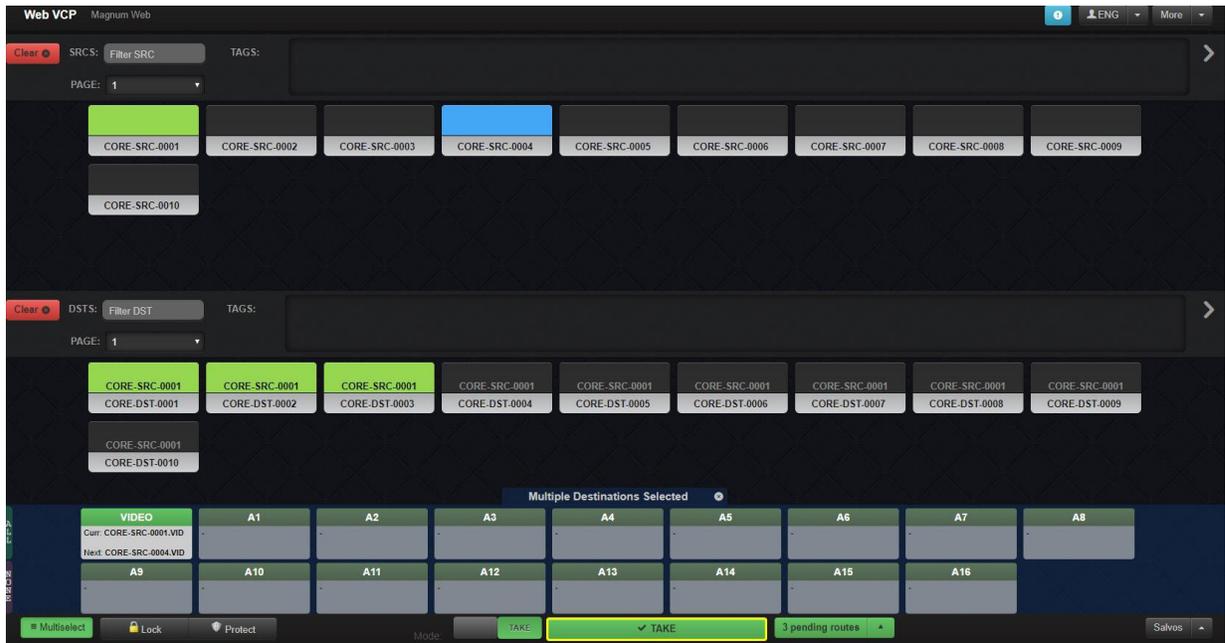


Figure 3-13: Web-VCP - Multiselect Enabled

In Figure 3-13, Multiselect is enabled with three destinations selected, SRC-0004 queued up to be routed onto them.

3.8. MORE MENU CONFIGURATIONS

The more menu in the top right corner of the page allows the user to configure options that affect functionality and overall look of the page.

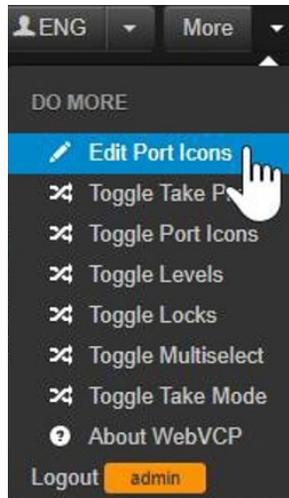


Figure 3-14: Web-VCP - More Menu Dropdown

3.8.1. Port Icons

Selecting Toggle Port Icons associates a thumbnail to Source and Destination ports observed on the page. This icon can be changed to existing options or a custom image can be uploaded.



Figure 3-15: Web-VCP - Port Icons Editor Pop up

3.8.2. Toggle Options

The Toggle Take Preset, Toggle Levels, Toggle Locks, Toggle Multiselect and Toggle Take Mode options will hide the respective buttons that are present along the bottom of the page.

Selecting Toggle Take Preset will remove the Take Button, Mode slider and Pending Routes menu from the bottom of the page. In this mode routes will happen instantly (no longer preset) after clicking on a source. This mode can be used in conjunction with Multiselect mode allowing the same source to be routed to multiple destinations without presetting.

If Take Toggle Preset was previously enabled, the Take button itself will also not be visible along the bottom of the page.

Additionally, setting a profile's access level to minimal will permanently hide the Lock and Protect selections in the Virtual Control Panel page for that profile and will remove Toggle Locks from the More drop down.



Figure 3-16: Web-VCP - More Menu / All Items Toggle Off (Up) All Items Toggle On (down)

3.9. SALVOS

To enable Salvos on the Virtual Control Panel, the user must enable (make available) the required Salvo(s) within the Salvos tab in the Web-VCP interface Edit Profile.

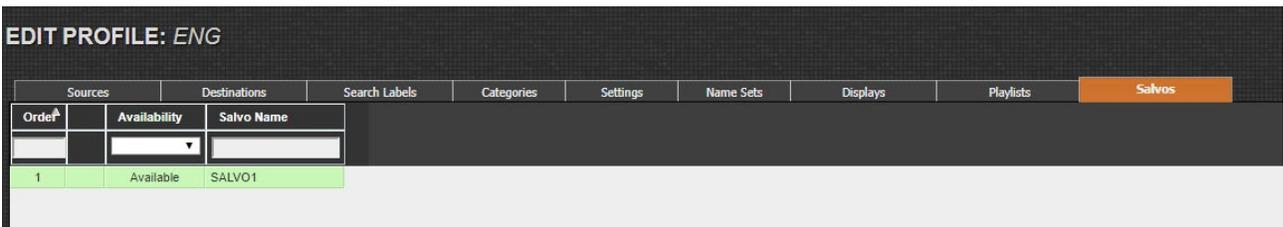


Figure 3-17: Web-VCP – Edit Profile / Salvos Tab

3.9.1. Executing Salvos from Web-VCP

The Salvos menu in the bottom right corner of the page when clicked on will show all Salvos available to the Profile entered.

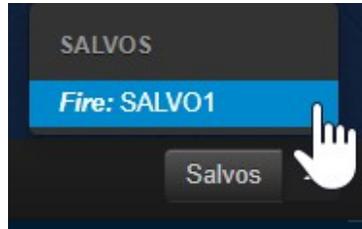


Figure 3-18: Web-VCP - Salvos Menu

Selecting a salvo will not fire it automatically the browser will prompt the user to confirm or deny the execution request via a dialogue box.

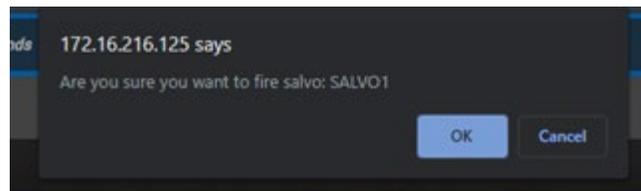


Figure 3-19: Web-VCP - Fire Salvo Dialogue Box

3.10. NAME SET CONFIGURATION

In order to configure the Default Name Set for a profile already available to the Web-VCP interface, users may access the configuration in the virtual control panel page.



Note: If a profile has not been made available to the Web-VCP, refer to section 3.1.

	Device	Port	Global	OPS
<input type="checkbox"/>	CORE	1	CORE-DST-0001	RS-1
<input type="checkbox"/>	CORE	2	CORE-DST-0002	RS-2
<input type="checkbox"/>	CORE	3	CORE-DST-0003	RS-3
<input type="checkbox"/>	CORE	4	CORE-DST-0004	RS-4
<input type="checkbox"/>	CORE	5	CORE-DST-0005	RS-5
<input type="checkbox"/>	CORE	6	CORE-DST-0006	ENC-IPX FEED 1
<input type="checkbox"/>	CORE	7	CORE-DST-0007	ENC-IPX FEED 2
<input type="checkbox"/>	CORE	8	CORE-DST-0008	ENC-IPX FEED 3
<input type="checkbox"/>	CORE	9	CORE-DST-0009	ENC-IPX FEED 4
<input type="checkbox"/>	CORE	10	CORE-DST-0010	ENC-IPX FEED 5

Figure 3-20: Magnum - Destinations

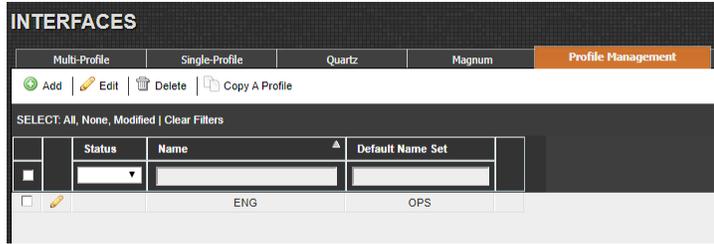


Figure 3-21: Magnum – Profile Management

3.11. FILTERING AND PAGE NAVIGATION

If the profile has a large quantity of ports the Source and Destination panes allow navigation by clicking on the arrow icons that appear on the bubble selections as highlighted in green in Figure 3-22.

Additionally, Sources and Destinations can be filtered for using their respective boxes in the same page, as highlighted in yellow in Figure 3-22.



Figure 3-22: Web-VCP – Filtering & Page Navigation

3.12. CONFIGURING TAGS (PORT LABELS)

Tag selection options require Port Labels to be created and associated to Sources and Destinations through the Port Labels Page.

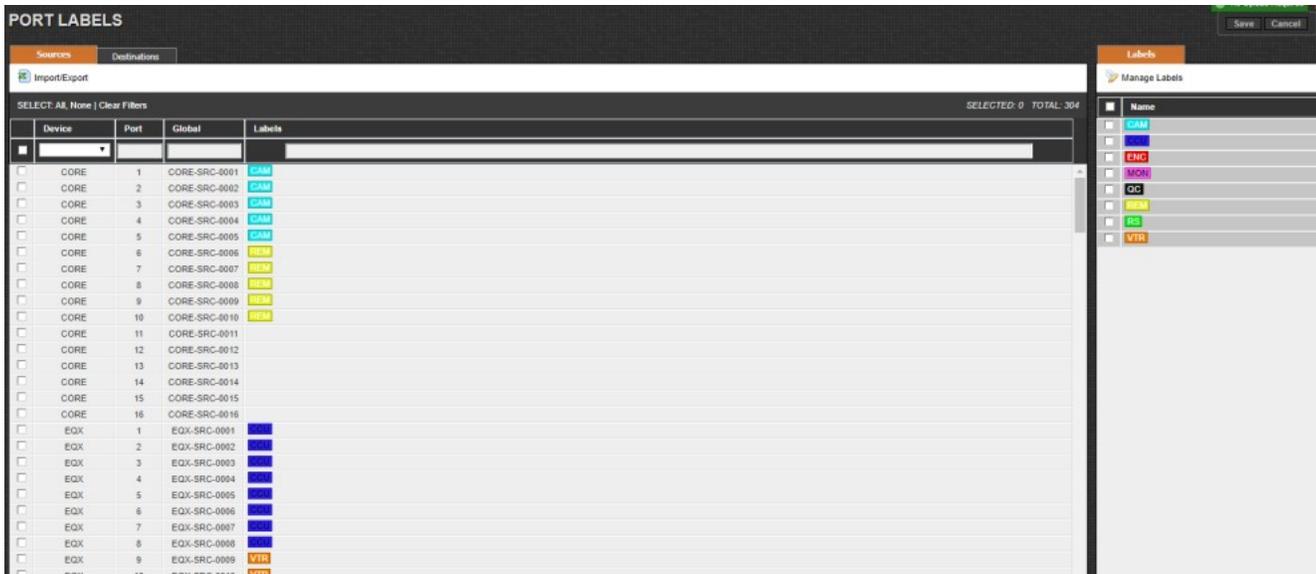


Figure 3-23: Web-VCP – Port Labels

Once Port Labels have been configured they must next be made available to the profile under the Search Labels Tab.

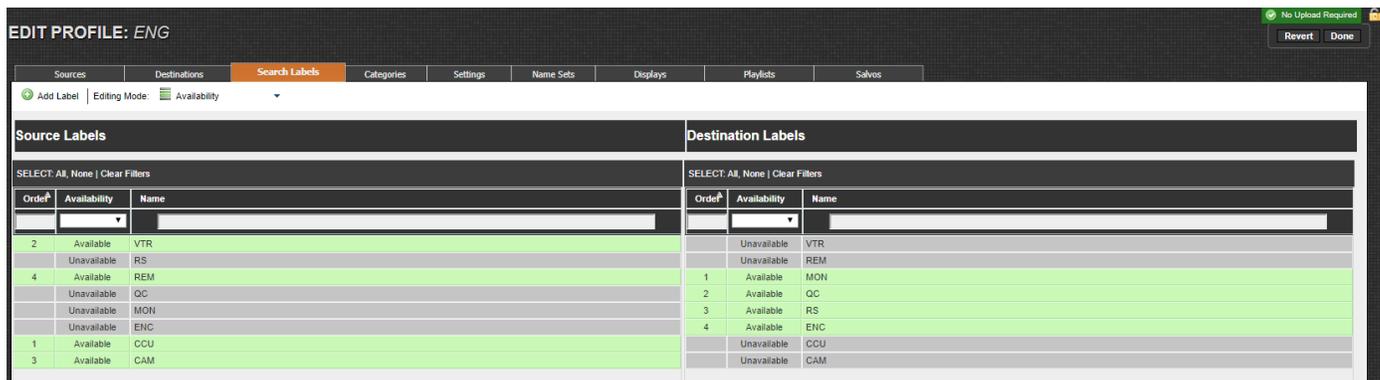


Figure 3-24: Web-VCP - Edit Profile/Search Labels

After uploading the Search Label availability, the Virtual Control Panel page will show the Port Labels defined in the TAGS headers. Clicking on a TAG will filter for the ports with the associated Port Label.



Figure 3-25: Web-VCP – TAGS Filtration

End of document