

Technical Note Description;

Control Of Slave Servers From Master NV1 Console and KBC2/U Keyboard.

Product Models Covered;

All Gen3 Servers, commonly SD Advance units, but can be any Gen 3 unit that supports a local KBC2/U keyboard.

Description;

Under certain circumstances control of a desktop DVR / NVR from remote locations is desirable. For example a large site with multiple entrances (gatehouses) may require a control point in each gatehouse, and a control point in the site managers office. Each control point requiring a local monitor and keyboard.

The DM/DVIP/NV1 can be used in conjunction with a DM/KBC2/U keyboard to allow remote USB keyboard operation over Ethernet. In this configuration each remote keyboard acts as if it were a keyboard connected locally to the DVR / NVR via the USB interface.

The DVIP/NV1 + KBC2/U combination can also be configured to control a number of DVR / NVR's using a single keyboard using the "System Select" key on the keyboard, allowing for control over a large system from a single keyboard.

Configuration;

Connect the KBC2/U to one of the USB ports on the DVIP/NV1, and the DVIP/NV1 to the site Ethernet. Connect the DVR / NVR of your choice to the site Ethernet.

Once the physical connections are made the units must be configured for remote operation, to do this proceed as follows;

Enter the IP address of the DVIP/NV1 into your web browser and click on the "Configuration" button.



Click on the “Console / Systems” button and enter the IP Address, System Name and camera numbers that you wish the NV1 to be able to control. In most cases you can just enter the IP address of the server/s into the “Server URL” box and click “Auto Fill”, this will get the number of cameras and the name from the remote server. You can also select “Multi System” or “Single Large System” depending on the site layout. This will get the video streams form the remote unit and display them on the DVIP/NV1’s local monitor. In this case 172.17.32.11

NetVu Ltd - NetVu Client Portal x Dedicated Micros, Configurat x +

172.17.32.24/gui/gui_outer_frame.shtml

DV-IP NV1

- System
- Console
- Systems
- Systems Overview
- Remote Unit Control
- Viewer Defaults
- Display
- Maps
- Map Data
- User Accounts
- Camera
- Record Setting
- Schedule
- Alarm
- Network
- Features and Text
- Archive
- Go to Viewer

Remote server / System Configuration Save

Mode: Multi System Configuration

System: System 1

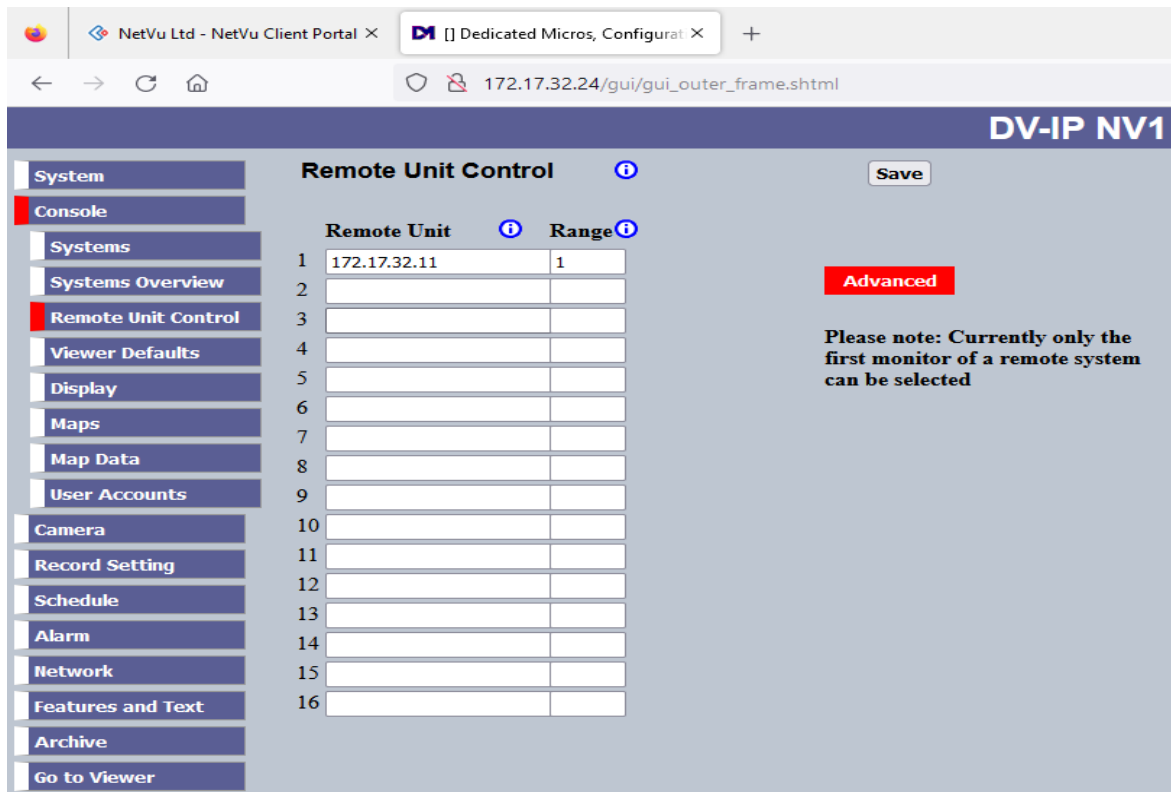
System Name:

Server URL	Server Name	Camera Selection	
172.17.32.11	M5G_Test	1-8	Auto Fill
<input type="text"/>	<input type="text"/>	<input type="text"/>	Auto Fill
<input type="text"/>	<input type="text"/>	<input type="text"/>	Auto Fill
<input type="text"/>	<input type="text"/>	<input type="text"/>	Auto Fill
<input type="text"/>	<input type="text"/>	<input type="text"/>	Auto Fill
<input type="text"/>	<input type="text"/>	<input type="text"/>	Auto Fill
<input type="text"/>	<input type="text"/>	<input type="text"/>	Auto Fill
<input type="text"/>	<input type="text"/>	<input type="text"/>	Auto Fill

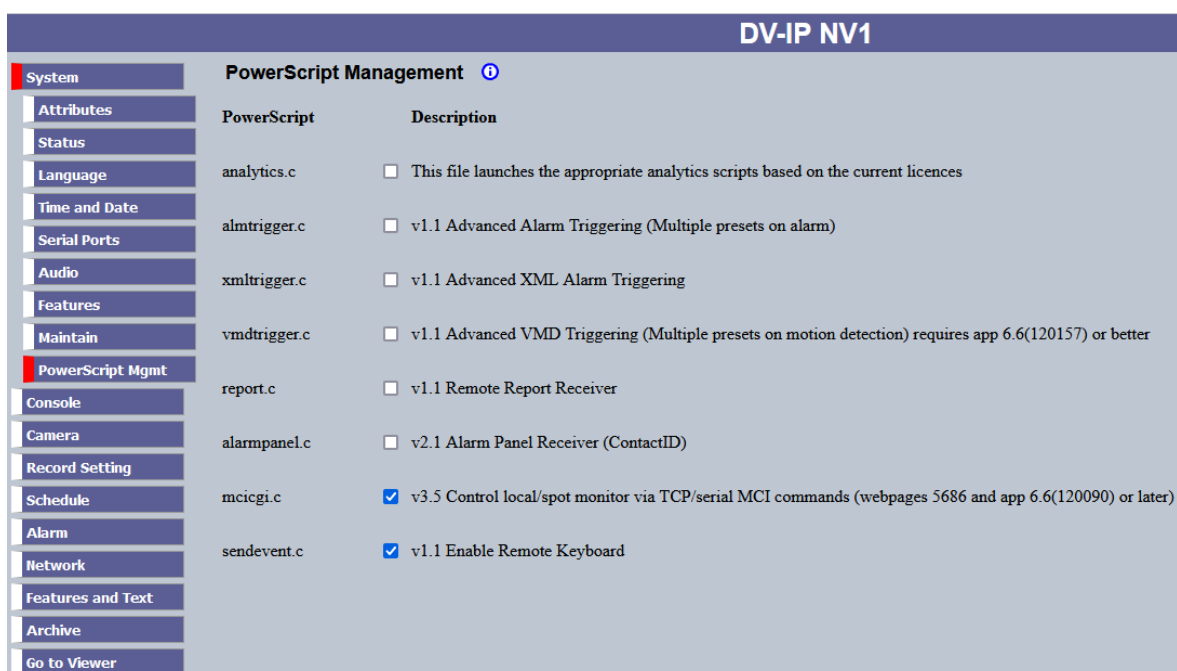
Format for camera selection:
 Individual cameras: eg 1,2,3 or 1;2;3
 Camera ranges: eg 1-3 or 1_3

Next click on the “Console / Remote Unit Control” button and enter the IP address of the unit/s you wish the keyboard connected to the DVIP/NV1 to control, in this case 172.17.32.11

The “Range” value is the monitor number you wish to control on the remote unit, always “1” for all DVR / NVR’s, but could be between 1 - 8 for a DM/DEC8 8 channel decoder.



Next click on the “System / Powerscript Management” button and ensure that mcicgi.c and sendevent.c powerscript boxes are ticked. Ensure that you then click the green “Save” button at the bottom of the page and then click the red “Reset” button to reboot the DVIP/NV1 and enable the selected powerscripts.



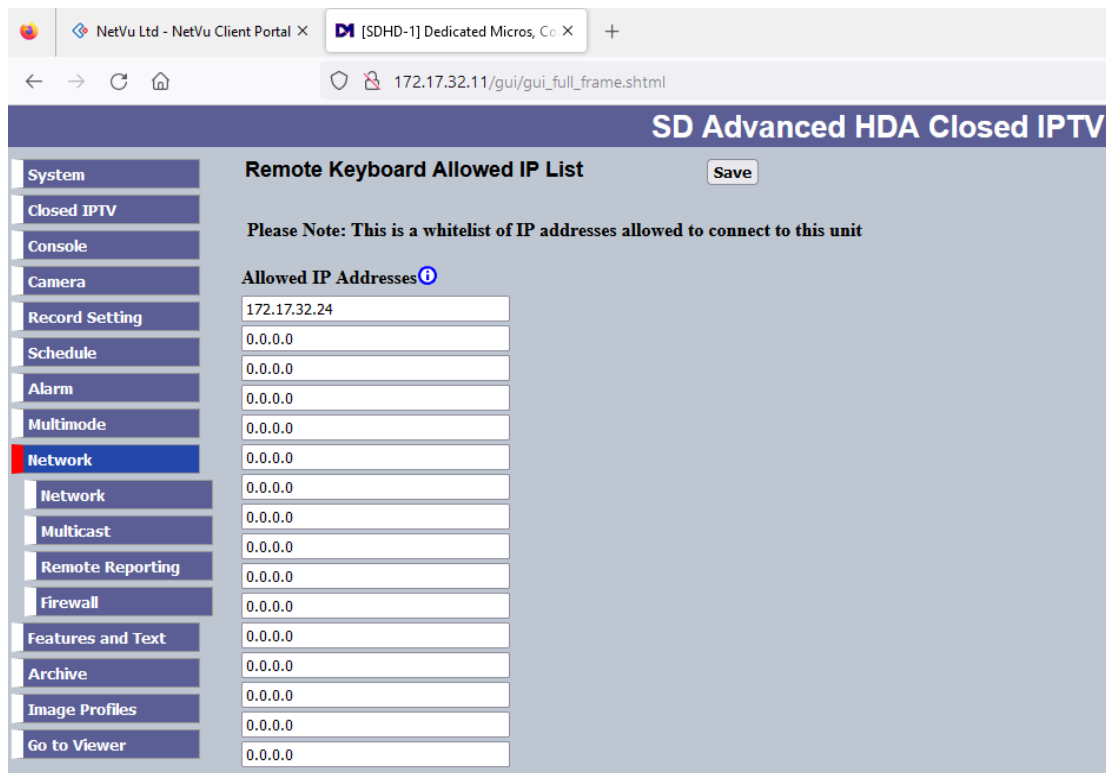
This completes the configuration of the DVIP/NV1. Next you need to configure the DVR/ NVR’s to accept incoming control signals from the console / KBC2/U.

To configure the DVR / NVR to accept control signals from the remote DVIP/NV1 + KBC2/U locations each DVIP/NV1 IP address needs to be added to the Firewall of every DVR / NVR to be controlled. To do this enter the IP address of the DVR / NVR that you wish to control into your web browser and click on the “Configuration” button.

Then click on the “Network / Firewall” Button.

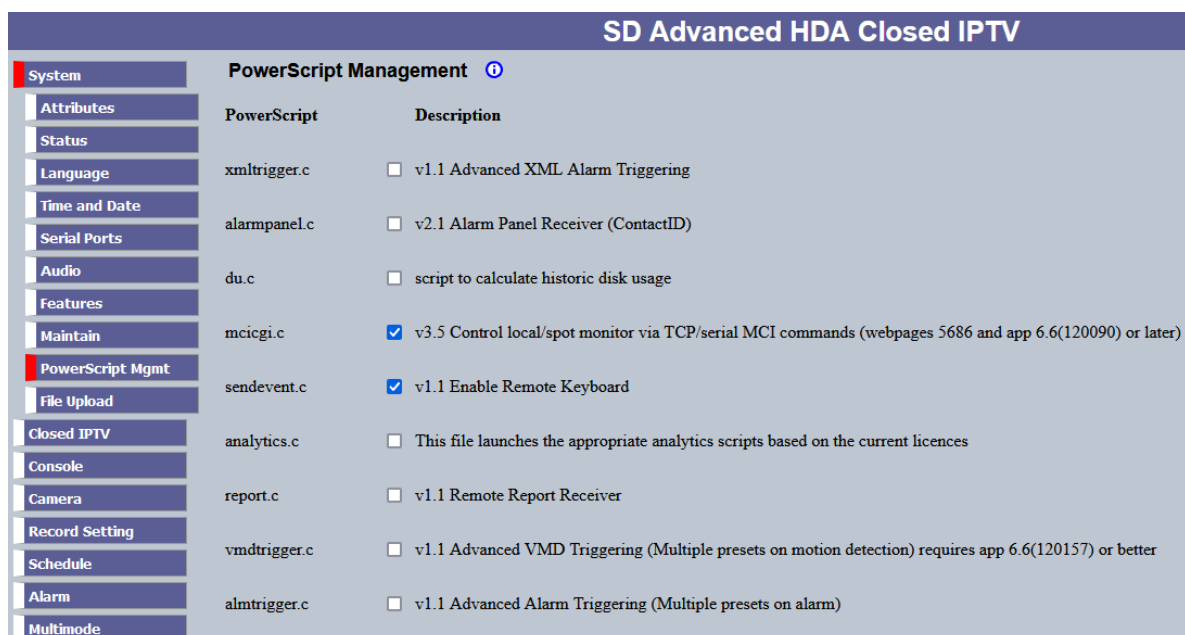
Service Name	Port Start	Port End	Type	Open
FTP	21	21	TCP	✓
SSH	22	22	TCP	✓
Telnet	23	23	TCP	✓
DHCP	68	68	UDP	✓
Web Server	80	80	TCP	✓
SNTP	123	123	UDP	✓
Netbios Name + Datagram Service	137	138	UDP	✓
Netbios Session Service	139	139	TCP	✓
SNMP	161	162	UDP	✓
Web Server [HTTPS]	443	443	TCP	✓
RTSP	554	554	TCP	✓
Telemetry (PTZ)	1025	1025	UDP	✓
Multicast (Cameras)	2000	2063	UDP	✓
Audio	2074	2074	UDP	✓
XML Alarms	4000	4000	TCP	✓
External ANPR	4001	4016	TCP	✓
mDNS	5353	5353	UDP	✓
Debug and Variable Notifier	5201	5202	TCP	✓
Emergency Messaging	5800	5800	TCP	✓
Alert Messaging	5801	5801	TCP	✓
Remote monitor keyboard events	5802	5802	TCP	✓
Network Text	7000	7031	TCP	✓
Web Server [Secondary]	8080	8080	TCP	✓
Telnet [Secondary]	8023	8023	TCP	✓
Multicast SAP Announce	9875	9875	UDP	✓

On this page you will see a service name “Remote Monitor Keyboard Events” which should be set to “Port Start 5802”, “Port End 5802” and “Type TCP”. This is the default setting and should not be changed. Next to this is a button marked “Allowed IPs”. Click on this button, it will open the page below.



In the “Allowed IP Addresses” box enter the IP Address of the DVIP/NV1’s that you wish to be able to control the unit. In this case 172.17.32.24 but you can add up to 16 remote keyboard addresses if you have a large site with multiple gatehouses Etc.

Finally open the “System / Powerscript Mgmt” page of the DVR / NVR and ensure that the mcicgi.c and sendevent.c boxes are ticked. Click the green “Save” Button on the bottom of the screen followed by the red “Reset” button to reboot the unit and run the powerscripts.



After the system reboots you should be able to control the DVR / NVR from the remote NV1 & KBC2/U.