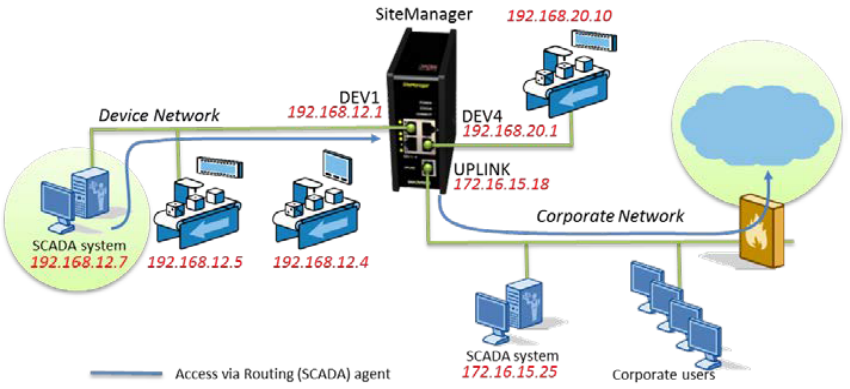
3.9. Accessing the Internet from a device on DEV (DEV > UPLINK)



To be able to access the Internet from a device, you can use the Routing (SCADA) Agent (and not the Forwarding Agent), like this:

Status	Disable	S/N	Device Name	Device Type		Device IP & Parameters	Comment
	☐	#03	SCADA system	CUSTOM (Advanced)	Routing (Scada)	192.168.12.7	

You would have to assign the IP address of the SCADA system to the "Routing (Scada)" Agent. You would also need to enable "Enable UPLINK Source Translation:", as the SCADA system IP address is unknown to the corporate network.

Under Parameter Details the setup would look like this:

Device "SCADA system" (Scada Agent) Details

Scada Address 1:	*	192.168.12.7
Scada Address 2:		
Scada Address 3:		
Enable UPLINK Source Translation:		☑
Enable DEV Source Translation:		☐
Custom Settings:		

Save Back Ping

* = Mandatory field

For this to work, the PLC will need to have its default gateway set to the DEV1 interface address (192.168.12.1), otherwise it will not know where the public IP addresses are located. Refer to **Appendix A** for more info on setting up a gateway on the device.

Appendix A. Configuring devices to use SiteManager as route

For a device to use the SiteManager as route based on the Routing agent, the device needs to know that the SiteManager is the gateway to the other network.

Method 1: Assign SiteManager as default Gateway

If the SiteManager is configured as default gateway for the device, the device will automatically use the SiteManager as route. If the device does not already use another device as gateway, you may safely change it to the local IP address of the SiteManager. This would typically only be the case for devices on an isolated DEV network.

If the device supports DHCP, you can enable DHCP on the DEV port of the SIteManager and the device will automatically get the SiteManager's DEV port as default gateway. If you are concerned that the IP addresse may change, you can enter the SiteManager menu DEV > DHCP > Leases and fix the MAC address of the device to always have a specific IP address assigned.

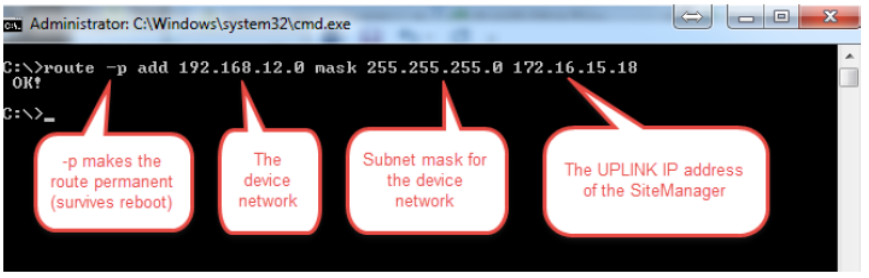
Method 2: Configure a local static route

If the device is on the Uplink side of the SiteManager, or does not allow to change its current default gateway, you must configure a static route on the device. Refer to the documentation of your device for instructions.

If the device is a Windows computer, such as a SCADA PC, you can open a command prompt and enter a static route through the "route" command.

Press "Windows key + R" or go to the start menu and type "cmd" and press ENTER.

Use the "route" commend to add a static route. See example below:



Then configure your software to access the IP address of the devices directly. Ie. 192.168.12.4 and 192.168.12.5.

Method 3: Inserting a route into the corporate firewall

When the SCADA PC needs access to an IP address not being in the same subnet as the SCADA PC, it will request the route from its default router. This router is typically the corporate firewall.

You should therefore insert a static route rule in the firewall that routes request to IP addresses of equipment in the device network to the uplink address of the SiteManager.

With the example above in mind, the firewall should be configured to forward requests for IP addresses in subnet 192.168.12.0 to the "router" 172.16.15.18.