CONNECTING THE FLEXGATE ENTERPRISE SYSTEM

To configure the FlexGate system for first use, access the FlexGate using a PC and the supplied Ethernet cable. This direct-connection procedure only needs to be done once. After this procedure, accessing the FlexGate will be done through the network and over any network port. (Your configuration may look slightly different.)



Figure 1: FlexGate System Rear Panel

- 1. Refer to Figure 1:FlexGate System Rear Panel to connect the power jack to the rear DC 12V power port and plug-in the FlexGate.
- Connect the supplied CAT 5 Ethernet cable to the NIC 0 port. Connect the other end to a Windows PC. 2.
- 3. Press the power button on the front of the FlexGate to start the unit. Wait at least three minutes to ensure the machine has completed booting.
- On the PC used to configure to the FlexGate system configure your IP address with the following 4. parameters:

parameter	'S:		
IP Addres	s: 192.168.100.10	Image: Section of the section of t	合分帶
Subnet m	ask: 255.255.255.0	FlexGate Configuration Hor	ne Network
 Open a windttp://192. Address b Figure 1: I the log in Configura default us password 	eb browser and type 168.100.1 in the ar. FlexGate Login shows screen for the FlexGate tion webpage. Use the er as Admin and 123456 to login.	Log in. User name admin Password •••••• • Remember me? Log in	
7. Click the I right of the	letwork link at the top page.	© 2014 - Raven Electronics	

Figure 1: FlexGate Login



- 8. Enter the IP addressing for FlexGate in the form provided (Figure 2: Network Settings).
 - a. IP Address

Enter an IP address for NIC 0 and NIC 1.

This address is used to access the FlexGate administrative interface. Once **Commit Changes** is clicked, the old address no longer accessible. Store this address for reference in the future.

b. Subnet Mask

Enter a Subnet address for NIC 0 and NIC 1. By default, this address is 255.255.255.0.

- c. **Default Gateway** Enter a Default Gateway address for NIC 0 and NIC 1
- d. **Primary DNS** Enter a primary DNS address for NIC 0 and NIC 1.
- Secondary DNS (Optional) Enter a Secondary DNS address for NIC 0 and NIC 1.
- Click the Submit button. Disconnect the FlexGate from your PC, and connect the FlexGate unit to a local switch or router using the NIC 1 port. You should now be able to access the FlexGate unit from any computer on the same network by using a browser to navigate to the IP address you supplied for NIC 1.

Configure NIC 0 (Public)

Host Name
FlexPublic
IP Address
67.120.145.124
Subnet Mask
255.255.255.248
Default Gateway
67.120.145.126
DNS Server Primary
8.8.8.8
DNS Server Secondary
Configure NIC 1 (Britanta)
Host Name
FlexPrivate
IP Address
192.168.100.2
Subnet Mask
255.255.255.0
Default Gateway
DNS Server Primary

DNS Server Secondary

Submit Cancel

Figure 2: Network Settings

- 10. **Note:** There is a customer admin account within the operating system that you can use to directly connect to the device using a keyboard, mouse, and monitor. The user is "FGAdmin" and the password is user@password123. This can be used to for support or maintenance of the system as needed. IP address settings for the main two network cards should be managed via the web config as shown above.
- 11. **Note:** Log files can be viewed when logged into the system directly as described above by looking in the c:\FlexGate\Logs directory.
- 12. If you are using an external firewall, it may need to be provisioned to forward the ports outlined in Figure 4 when HQi clients are not local to the system.





FLEXGATE ENTERPRISE SYSTEM INTERFACES

Depending on the licenses purchased for your FlexGate Enterprise it will have one or more of the following Interfaces.

					1	
NEXEDGE TRS Console Interface		Ele Edit View Favorites Iools Help FlexGate Configu	오~ 음이 🎼 Home Page - FleeGate	conf× ada Home	nin Logoff Network	Network Settings
 M4x Analog Radio Channel Interface 		Home Page				
	Create New Interfaces	Create New Interface Create New Synaposefit Create New NEXEOGE TBS Create New M4x Radio Channel	Interfaces Name Type Synapse.Interface.1 SynapsePtt NX.TG.Interface.1 NEXEDGE TRS Conv.Radio.Ch.1 M4x Radio Channel	Edit. Delete Edit. Delete Edit. Delete		Edit/Delete Existing Interfaces
		© 2014 - Raven Electronics				

Figure 3: FlexGate Interfaces

Interface are conduits to various communications technologies. As you create interfaces you can link them to other interfaces providing interoperability or unique communication topologies.

Figure 3: FlexGate Interfaces shows the layout of the webpage.

- a. At the top of the page, a user is able to click on the username to edit login credentials.
- b. "Network" navigates to FlexGate Network Settings.
- c. On the left side under "Create New Interfaces", a user is able to click a link to create an interface.
- d. Likewise under "Interfaces", a user is able to edit and delete an interface.



CREATING NEXEDGE TRS INTERFACE

When traversing through interface configuration screens you will be provided with some limited help descriptions as you click on individual setup fields. Figure 4: NEXEDGE Interface shows the NEXEDGE TRS configuration webpage. Notice on the right, there is a description field. This webpage will require information about the NEXEDGE Trunked Radio System; Console ID, System Code, Site Code, Network Category, IP address and port. Additional detail can be found by selecting a field.

- 1. In the home page click on the "Create New NEXEDGE TRS".
- 2. Fill out all necessary fields related to NEXEDGE TRS.
- When you have filled out the interface, click "Submit" at the bottom of the page. The home page will now show one interface created for the NEXEDGE as shown below.

File Edit View Favorites Tools Help	Createnew - Plexoate Conti A	
Create New NEXEDGE	TRS	
Name Granite Construction Maintenance Talk Group Name Maintenance Talk Group ID 1 1 Console ID 50000 System Code	Description This is the system code as configured in the NEXEDGE Trunked System. This is a unique ID assigned to each system (1 to 131070).	
Site Code 1 Network Category		
Is Ultra Narrow Radio System Address		
Listener Port 50001		
Use Default IP Address Bind To Address		
10.1.1.55 Jitter Buffer Depth 60		
Reregister Time (hrs) 6		
Submit Cancel		

Figure 4: NEXEDGE Interface



CREATING M4X BLADE AUDIO CHANNEL INTERFACE

M4x Blade audio channel can integrate any analog device into the FlexGate Enterprise System. Please contact Raven Electronics Corporation if there are questions about the cable pin out (775-858-2400).

- 1. In the home page click on the "Create New M4x Radio Channel".
- 2. Determine which port (channel) and blade you would like to use. The blade number is issued from top to bottom with the top blade number being one and the bottom blade number being three. The channel is the blade port number (1-8)
- 3. Trigger On COR is used if the analog system being connected to can provide a COR (or "E-lead") when voice audio is presented to the FlexGate hardware. This is most useful for deterministic initiation of audio paths from radio users.

C S Intr://10.1.1.55/Home/CreateNew	?type=M4xRadioCl 👂 🛪 🖒 📄 CreateNew - ElevGate Confi 🗙	- □ ×			
File Edit View Favorites Tools Help					
FlexGate Configuration	n Home	admin Log off Network			
Create New M4x Blade Audio Channel					
Name Granite Conventional	Description				
Blade Number	of 11 starting with the top blade in a FlexGate system.				
1 ×	Enter the blade number of the audio resource you want to utilize in this interface.				
Channel Channel 7 🗸					
Trigger On COR ☑					
Talk Group ID					
1					
Submit Cancel					
© 2014 - Raven Electronics					
		~			

Figure 5: Blade Audio Channel



MAPPING INTERFACES TOGETHER

Once interfaces are created you can map one or more of them to each other to create interoperability conduits among them.

- 1. Click "Patches" link on the web config interface you want to map to another that was previously created.
- 2. A drop down list of all created patches will appear in the middle of the form.
- 3. Select an "Available Interfaces" list and click add to create the mapping (note that you can add multiple interfaces together by this method).
- 4. Click the Submit button on the form.

🖶 🕫 🤉 Patches - FlexGate Conf X + V			- 🗆 ×
\leftarrow \rightarrow \circlearrowright \bigcirc 10.1.1.82/Home/Patches			☆ ☆ & ☞ …
FlexGate Configuration Patches	Home Patches Phone Book	Network Logs Admi	admin Log off n Licensing
New Patch:	Create Patch		
Available: RavenVocalis RavenZello	Delete Rename DTMF Patch DTMF Code	In Patch: Police Nexedge Fire Channel UHF	
, in the second se	Add to Patch Remove from Patch Submit		~

Figure 6: Connecting Interfaces Together

