This Quick Start Guide provides the standard installation processes for either an FX Series ADC or Remote.

1.1   Unpacking

- Inspect shipping containers for damage. If shipping containers are damaged, keep them until the contents of the shipment have been carefully inspected and checked for normal operation.
- The FX Series appliance is packaged in pre-formed, reusable, cardboard cartons containing foam spacing for maximum shipping protection.
- Unpack the appliance as follows:

Step	Procedure
1	Remove the appliance, power cord and cables from the carton.
2	Save the packing material for storage or reshipment purposes.
3	Inspect the appliance for any damage incurred during shipment.
4	Check the equipment and accessories against the packing list to ensure the shipment is correct.

1.1.1   Packing List

Acceleration Appliance
Read Me First Guide
1 - Power Cord
2 - Cat5e Blue 7ft UTP Snagless Cable
1 - Cat5e Crossover Orange 7ft UTP Snagless Cable
1 – Null Modem 6ft Cable
4 - Cage Nuts 10-32
4 - Screws, 10-32 3/4 in

1.2   User Interfaces and Installations Patterns

1.2.1   User Interfaces

The FX Series supports a basic menu-driven interface, which is accessible using the console port (eth0) or a web-based graphical user interface (GUI). Initial network configurations are managed thru the console connection, and the optimization and general operations functions are managed via the GUI.
The PASSWORD is only configurable via the console connection for security reasons.

a) There are three alternate methods to connect to the FX Series Appliance
  a. Attach a Monitor, keyboard and mouse to device.
  b. Connect the supplied serial cable with a setting of (19200,N,8,1)
  c. Attach a cross-over cable to the eth1 interface which has a static IP address of 169.254.55.55
b) To connect to the GUI, use any PC with a Web Browser to access:
  http://yourFxRemoteHostname:10000 The default USERID and PASSWORD are "comtech" and "comtech" for both the console and the GUI.

1.2.2   Standard Installation Patterns

Depending on the environment, there are these specific installations that can be used.
  a. Bridged ("In-Path") - The FX Series will inspect traffic sent and received on the bridged interface ports.
  b. Routed - The FX Series will have request and response traffic redirected to it from an external source, such as a router.
  c. WCCP – Allows you to configure the settings for support of the Cisco "Web Cache Communication Protocol" (WCCP).

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IMPORTANT NOTE: The information contained in this document supersedes all previously published information regarding this product. Product specifications are subject to change without prior notice.

1.3 Documentation Availability

Before you try to install the FX Series appliance on your network, please read this documentation and also refer to the _Installation Patterns Section_ of the Admin Guide.

Current Documentation for this appliance can be found on these locations.

On the Comtech EF Data web site:

http://www.comtechefdata.com/stampedeDocs.asp

www.comtechefdata.com
1   Under Support Information, Click on Manuals
2   Under RAN & WAN Optimization,
          click on Stampede FX Series

On the appliance:

To connect to the GUI, use any PC with a Web Browser to access:
1   Attach a cross-over cable to the eth1 interface which has a static IP address of 169.254.55.55
2   Login using the USERID and password of "comtech" and "comtech"
          a.   Using the web GUI
          b.   Click on the FX Series Appliance Administration link for the Main Index

NOTE: The FX Series Remote Main Index is functionally identical with the FX ADC Main Index shown here.
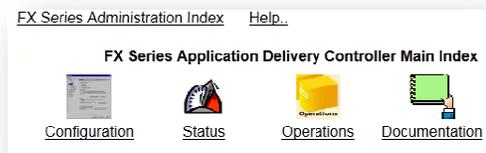
Click on Documentation from the Main Index
To view a document, click on the link in
the left column of each row of the table.
You can right click on the link and choose
"Save target as" to save a copy of the
".pdf" file to your desktop.

1.4 Configure Appliance Management Address – All Installation Patterns

Log into the appliance via console or SSH session using the username: comtech and password: comtech
1   Select option 1 "Configure appliance"
2   Select option 1 "Configure network settings"
3   Select option 4 "Configure TCP/IP for eth0 Ethernet Port"
4   Select option 1 "Configure DHCP"
          a.   Enter no and press Enter key (disable DHCP for this interface)
5   Select option 2 "Configure IP Address"
          a.   Enter the IP address of the appliance and press enter
6   Select option 3 "Configure Netmask"
          a.   Enter the subnet mask and press the Enter key
7   Select option 0 "Return to previous menu"
8   Select option 3 "Configure Default Gateway"
          a.   Enter the default gateway IP address and press the Enter key

After the cabling step identified in the specific pattern below, verify network connectivity by doing a ping of the appliance address from an external device.

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1.5 FX Series Installation Pattern (In-Path Bridged)

1.5.1 Cable the Appliance

The eth2 (LAN) and eth3 (WAN) ports both need to be connected to a switch or router in which:
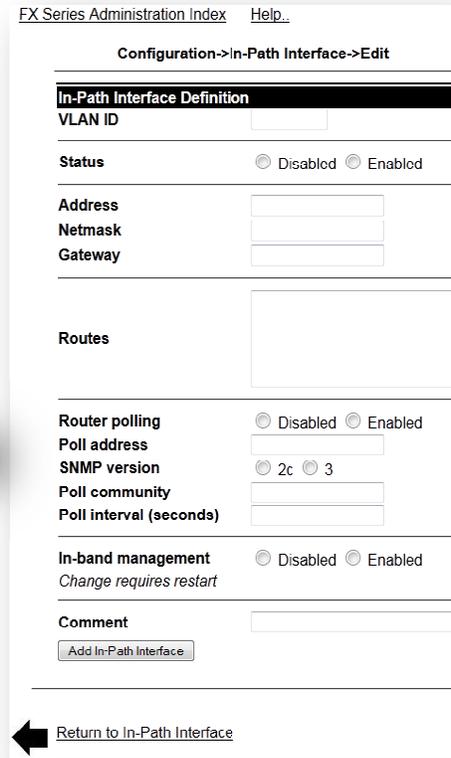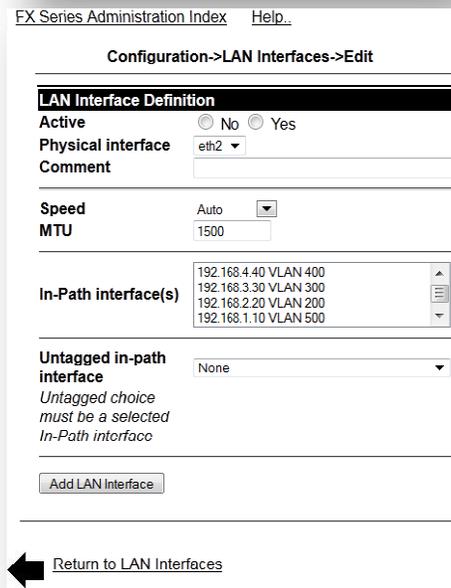1. The eth2 (LAN) port is on the link closest to the:
    a. Backend servers if the appliance is an FX-ADC.
    b. Clients if the appliance is a FX-Remote.
2. The eth3 (WAN) port is on the link closest to the satellite modem.

1.5.2 Configure the Appliance

Login to the appliance through the browser interface at:
http://{IP_address_of_the_appliance}:10000
1. Enter the default user name "comtech" and the default password "comtech".
    a. Click Login.
2. Click Configuration -> General Settings
    a. Change "Traffic interception mode" to "Bridged".
    b. Click Save.
3. Click In-Path Interfaces
    a. Click the Add button to add a new in-path interface.
        • Enter the VLAN ID of 0. If no VLAN tagging is to be used. Use the VLAN ID of the VLAN if traffic is to be VLAN tagged
        • Enter the IP Address.
        • Enter the Netmask.
        • Enter the Gateway.
        • Enter any static routes needed in the "Routes" field.
    b. Click "Add In-Path Interface".
    c. Click the "Return to Configuration" link.
4. Click on LAN Interfaces.
    a. Click on the "Add" button to add a new LAN interface.
        • Select "eth2" in the "Physical interface" selection box.
        • In the "In-Path Interface(s)" selection box, click the IP address of the in-path interface *from above*.
        • In the "Untagged in-path interface" selection box, select the IP address of the in-path interface *from above*. Select "None" if the VLAN tag is to be propagated across the WAN.
    b. Click "Add LAN Interface".
    c. Click the "FX Series Administration Index" link at the top of the page.

5. Click "Status", then click "Real-Time Monitor", then click "Restart Service".

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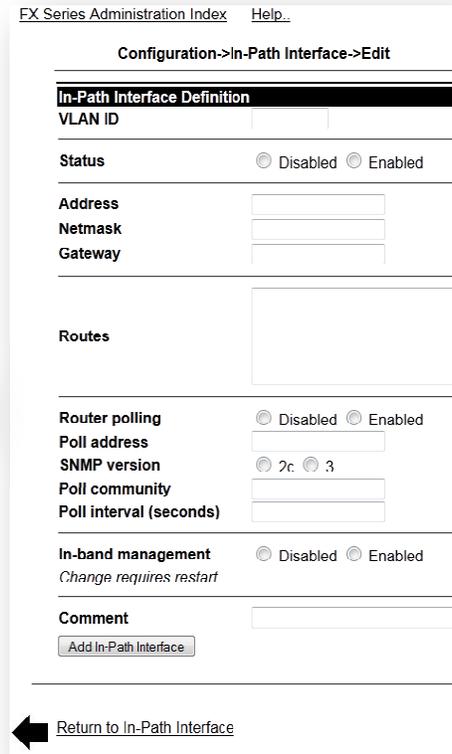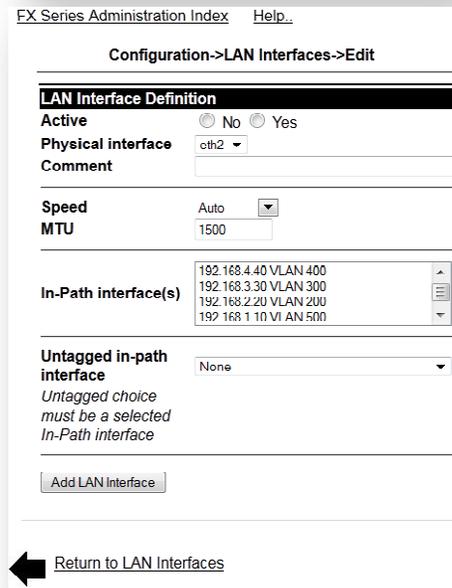## 1.6   FX Series Installation Pattern (Routed)

1.6.1   Cable the Appliance

Connect the eth3 (WAN) port to a switch or a router.

1.6.2   Configure the Appliance

Login to the appliance through the browser interface at:
http://{IP_address_of_the_appliance}:10000

1. Enter the default user name "comtech" and the default password "comtech".
   a. Click Login.

2. Click Configuration -> General Settings
   a. Change "Traffic interception mode" to "Routed"
   b. Click Save

   Traffic Interception
   Traffic interception mode   Routed ▼

3. Click In-Path Interfaces
   a. Click the Add button to add a new in-path interface.
      • Enter the VLAN ID of 0, if no VLAN is to be tagged. Use the VLAN ID of the VLAN if traffic is to be VLAN tagged.
      • Enter the IP Address.
      • Enter the Netmask.
      • Enter the Gateway.
      • Enter any static routes needed in the "Routes" field.
   b. Click "Add In-Path Interface"
   c. Click the "Return to Configuration" link

4. Click on LAN Interfaces.
   a. Click on the "Add" button to add a new LAN interface.
      • Select "eth3" in the "Physical interface" selection box.
      • In the "In-Path Interface(s)" selection box, click the IP address of the in-path interface *see above*.
      • In the "Untagged in-path interface" selection box, select the IP address of the in-path interface *see above*. Select "none" if the VLAN tag is to be propagated across the WAN.
   b. Click "Add LAN Interface".
   c. Click the "FX Series Administration Index" link at the top of the page.

5. Click "Status", then click "Real-Time Monitor", then click "Restart Service".

FX Series Administration Index   Help..

Configuration->In-Path Interface->Edit

In-Path Interface Definition
VLAN ID

Status   ○ Disabled ○ Enabled

Address
Netmask
Gateway

Routes

Router polling   ○ Disabled ○ Enabled
Poll address
SNMP version   ○ 2c ○ 3
Poll community
Poll interval (seconds)

In-band management   ○ Disabled ○ Enabled
Change requires restart

Comment

Add In-Path Interface

← Return to In-Path Interface

FX Series Administration Index   Help..

Configuration->LAN Interfaces->Edit

LAN Interface Definition
Active   ○ No ○ Yes
Physical interface   eth2 ▼
Comment

Speed   Auto ▼
MTU   1500

In-Path interface(s)   192.168.4.40 VLAN 400
                          192.168.3.30 VLAN 300
                          192.168.2.20 VLAN 200
                          192.168.1.10 VLAN 500

Untagged in-path interface   None ▼
Untagged choice must be a selected In-Path interface

Add LAN Interface

← Return to LAN Interfaces

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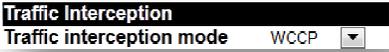http://www.comtechefdata.com/stampedeDocs.asp

## 1.7 FX Series Installation Pattern (WCCP)

1.7.1 Cable the Appliance

Connect the eth2 (LAN) port to a switch or a router.

1.7.2 Configure the Appliance

Login to the appliance through the browser interface at:
http://{IP_address_of_the_appliance}:10000

6. Enter the default user name "comtech" and the default password "comtech".
   a. Click Login.

7. Click Configuration -> General Settings
   c. Change "Traffic interception mode" to "WCCP"
   d. Click Save

8. Click In-Path Interfaces
   a. Click the Add button to add a new in-path interface.
      • Enter the VLAN ID of 0.
      • Enter the IP Address.
      • Enter the Netmask
      • Enter the Gateway
      • Enter any static routes needed in the "Routes" field.
   b. Click "Add In-Path Interface"
   c. Click the "Return to Configuration" link

9. Click on LAN Interfaces.
   a. Click on the "Add" button to add a new LAN interface.
      • Select "eth3" in the "Physical interface" selection box.
      • In the "In-Path Interface(s)" selection box, click the IP address of the in-path interface *see above*.
      • In the "Untagged in-path interface" selection box, select the IP address of the in-path interface *see above*.
   b. Click "Add LAN Interface".
   c. Click the "FX Series Administration Index" link at the top of the page.
   d. Review and complete the configuration for WCCP as shown on the next page.
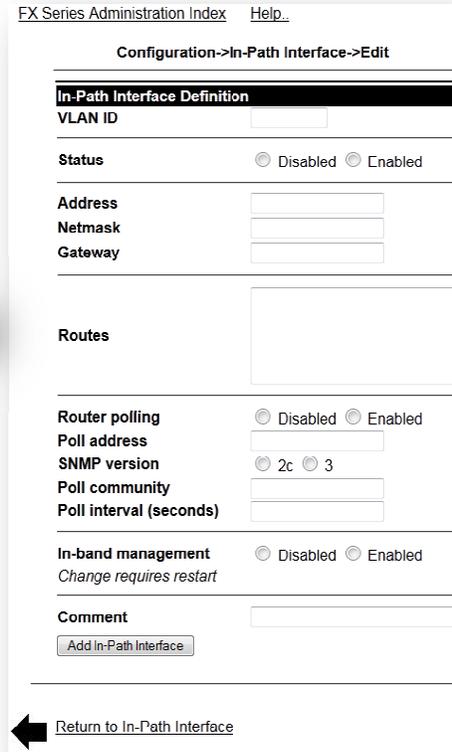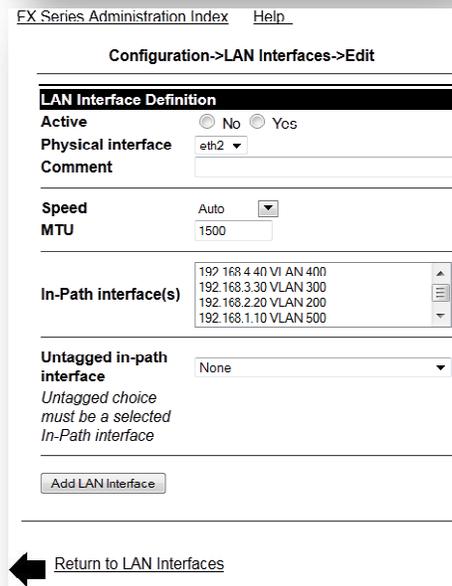
   NOTE: More information is available in the WCCP Section of the FX Series Administration Guide v6.0.1 Section 5.3.

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10. Click "WCCP"

    a. Click "Add WCCP Definition"

    b. Select the IP address of the interface that will send the WCCP messages to the router in the "Source IP address" selection box.

    c. Enter the routers IP address in the "Router address" field.

    d. Select the local interface that will receive the GRE traffic if using GRE redirection. If using L2 redirection leave blank.

    e. If using GRE redirection enter the router identifier of the router in the "Remote GRE tunnel address" field. If using L2 redirection leave blank.

    f. Use default value for "Enablement".

    g. Use default value for "Critical".

    h. Select Redirection method.

    i. Select the same value used for Redirection method.

    j. For L2 use Mask Assignment scheme. For GRE use Hash Assignment scheme. * This may differ on highest end Cisco equipment.

    k. Leave the password field blank, unless one was configured for WCCP on the Cisco device.

    l. If using "web-cache" WCCP redirection (no source IP address preservation) enter 0 in the "Service group number" field. If using source IP address preservation use the default value.
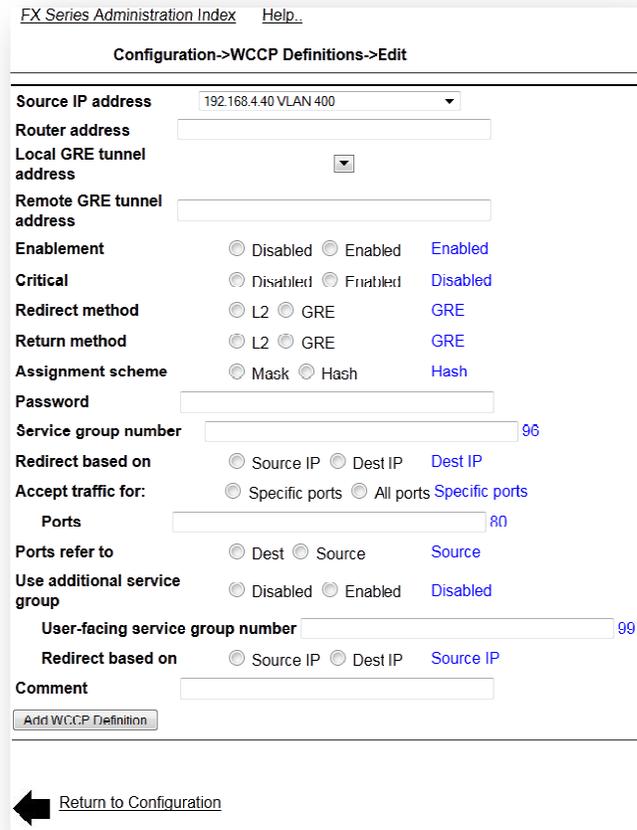
        NOTE: See FX Series Admin Guide v6.01 Section 5.3 for details and difference.

    m. Use the default values for "Redirect based on", Accept traffic for", and "Ports".

    n. If using source IP address preservation select "Enabled" for "Use additional service group". If using "web-cache" default this value.

    o. Click "Add WCCP Definition"

11. Click "Status", then click "Real-Time Monitor", then click "Restart Service".

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