



FACSys® 5.1

LOAD BALANCING

OVERVIEW

FACSys® 5.1 can be set up for real-time load balancing, which is dependent upon the configuration of the FACSys® Server Farm Connections, as well as upon the Routing Rules.

Included within this document are setup instructions, using a hypothetical scenario as an example as well as an explanation of the role of Routing Rules and their effect upon real-time load balancing in FACSys®.

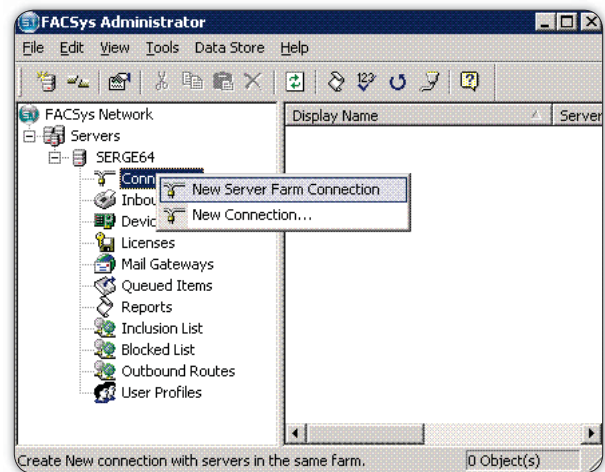
SCENARIO

In order to outline the setup instructions, as well as to give an example of potential configuration options, the following is a hypothetical scenario involving two fictitious servers in a FACSys® Server Farm (Server A and Server B). The goal is for all faxes sent to Server A or B to be automatically load-balanced.

In this example, **Server A = Serge64** and **Server B = F51**. Follow the steps as outlined below in order to create two Server Farm Connections on both Serge64 and F51 within the FACSys® Administrator program:

STEP 1

- On Serge64, right-click on **Connections** and select **New Server Farm Connection**.



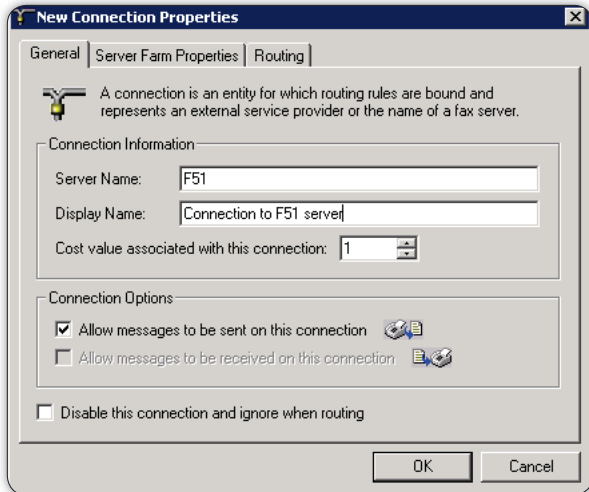


FACSys® 5.1

LOAD BALANCING

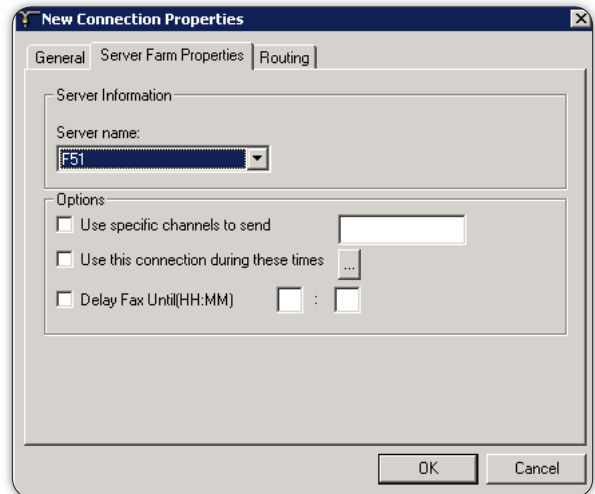
STEP 2

- On the **General** tab of the **New Connection Properties** window, enter the name of the desired server for the New Server Farm Connection. In this case, since the connection will be between Serge64 and F51, the target machine is **F51**, which is then entered as the **Server Name**.
- For the **Display Name**, enter a meaningful name, such as **Connection to F51 Server**.
- Leave the **cost value** at **1**.



STEP 3

- On the **Server Farm Properties** tab, use the drop-down box under **Server name** to select the name of the server. In this case, since this is a connection from Serge64 to F51, the name that should appear here is **F51**.
- Other options, such as **channels**, **connection times** and **fax delays** can be set, but are not required at this time.



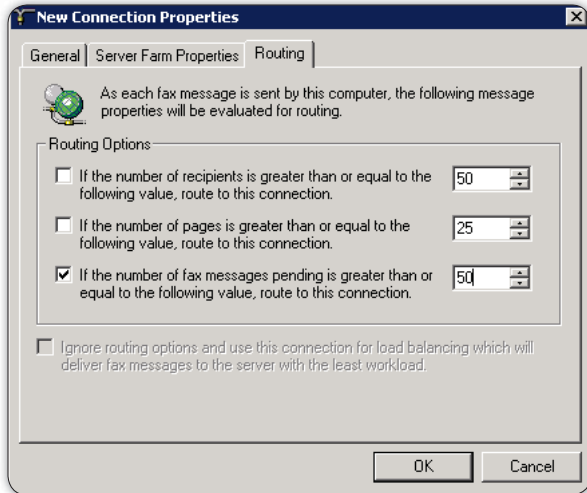


FACSys® 5.1

LOAD BALANCING

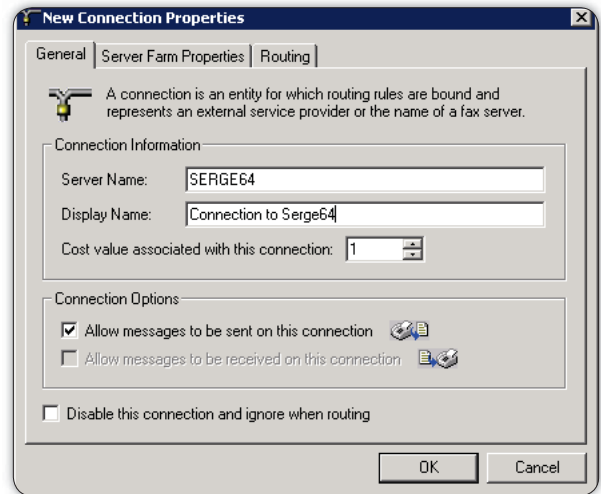
STEP 4

- On the **Routing** tab, choose the Routing Option best suited to the network in question. In this example, the decision was made to route messages using the connector, based on the number of fax messages in the queue. As such, the third option was checked, and a value of 50 was selected.
- Select **OK** to save this Server Farm Connection.



STEP 5

- On **Serge64**, once again right-click on **Connections** and select **New Server Farm Connection** in order to create a second Server Farm Connection to the Local machine.
- Since the connection will now be from Serge64 to itself, **Serge64** is entered as the **Server Name** on the **General** tab.
- For **Display Name**, again enter a meaningful name, such as **Connection to Serge64**.
- Leave the **cost value** at 1.



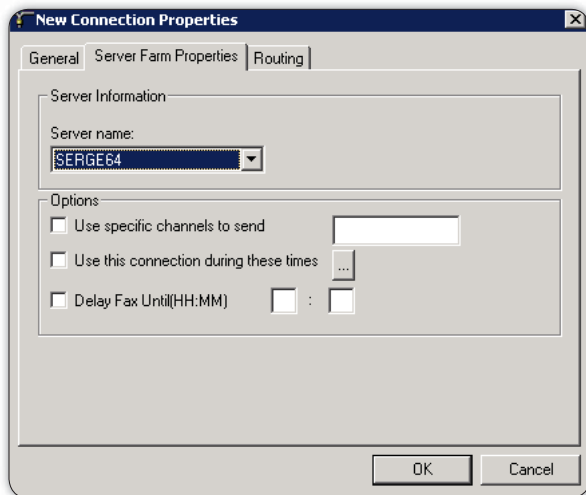


FACSys® 5.1

LOAD BALANCING

STEP 6

- On the **Server Farm Properties** tab, use the drop-down box under **Server name** to select the name of the server. Again, since this is still a connection from Serge64 to itself, the name that should appear here is **Serge64. Local Server** is also an acceptable option to select.
- For this connection, the decision was made not to route message based on any criteria on the Routing tab, so that step has been skipped.
- Select **OK** to save properties of this Server Farm connection.



STEP 7

- Repeat steps 1 to 6 on the second server, which in this scenario, is F51.
- Use the properties as outlined below:

CONNECTION TO SERGE64:

- **General Tab:**
Server Name: Serge64
Display Name: connection to Serge64
Cost: 1
- **Server Farm Properties Tab:**
Servename: Serge64

- **Routing Tab:**
 It was decided to route messages on this connection using the number of pages, so the second option was selected and set to 25 pages.

CONNECTION TO F51:

- **General Tab:**
Servename: F51
Display Name: connection to F51
Cost: 1
- **Server Farm Properties Tab:**
Servename: F51

- **Routing Tab:**
 For this connection, the decision was made to not route messages based on any criteria, so no options were selected.

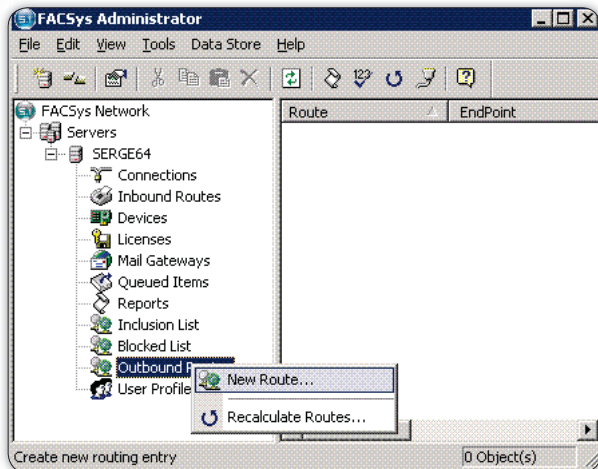


FACSys® 5.1

LOAD BALANCING

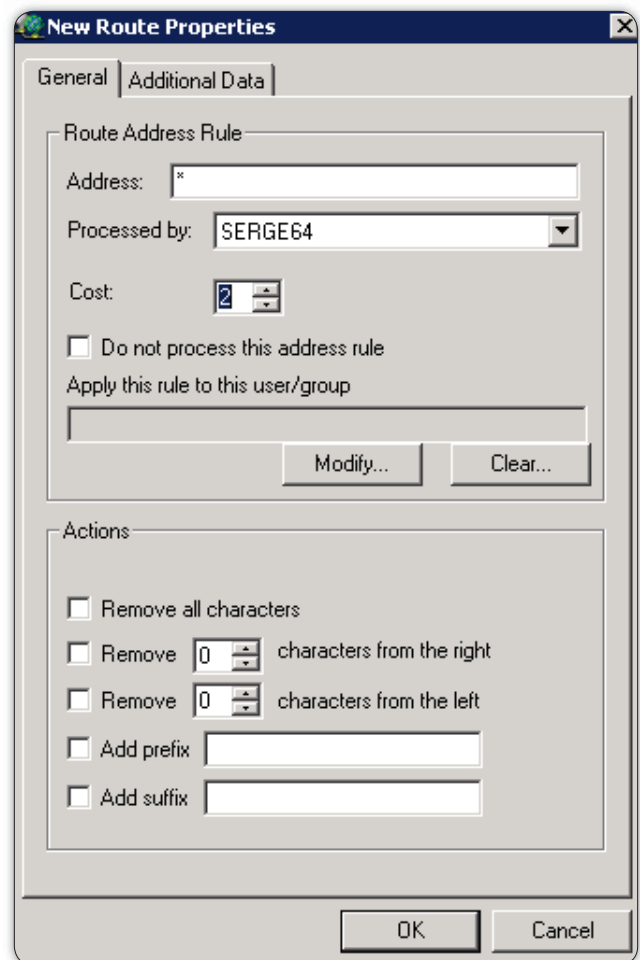
STEP 8

- Right-click on **Outbound Routes** under the Serge64 server.
- Select **New Route**.



STEP 9

- Since the desired outcome is to route ALL faxes, enter a * in the Address textbox on the **General** tab of the **New Route Properties** window.
- As well, since the goal is to have Serge64 route most of its own faxes, with the only other option being to route to the F51 server when the appropriate criteria on the Server Farm Connection Routing tab are met, enter the values as follows:
 - **Processed by:** Serge64 (or Local Server)
 - **Cost:** 2



- Select **OK** to save these settings.



FACSys® 5.1

LOAD BALANCING

STEP 10

- Create a second Outbound Route on Serge64 by repeating Step 8.
- Configure the **New Route Properties** as follows:
 - **Address:** *
 - **Processed by:** F51
 - **Cost:** 1
- Select **OK** to save these settings.



FACSys® 5.1

LOAD BALANCING

STEP 11

- Repeat steps 8 through 10 on the F51 server.
- Use the properties as outlined below:

FIRST ROUTE:

- General Tab:** Address: *
- Processed by:** Serge-64
- Cost:** 1

SECOND ROUTE:

- General Tab:** Address: *
- Processed by:** F51
- Cost:** 2

SUMMARY

All messages are subject to the Routing Rules. Messages use the Route of least cost.

If there is a message originating from Serge64, it will use the Routing Rule that has a cost of 1, which would entail using the Server Farm Connection to F51.

If that message meets the condition on the Routing tab of the Server Farm connection (i.e.: routing based upon the number of faxes in the queue), the message will be sent through the F51 server. Otherwise, it will be rejected from the Server Farm Connection to F51, and instead be sent through Serge64.

If a message originates from F51, it will follow a similar process. In this case, however, the Rules on the Server Farm Connection are different (i.e.: routing is based upon the number of pages in a fax).

