

# Hosting Laserfiche Forms 10 In A Perimeter Network (DMZ)

*White Paper*

**Laserfiche®**

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# Introduction

This document covers general configuration considerations when hosting Laserfiche Forms 10 in a DMZ. In the standard configuration, you will install 2 instances of Laserfiche Forms: one instance in the DMZ and the primary instance in the internal network.

The publicly accessible Forms Server located in the DMZ will be able to serve forms to site visitors but will not perform any of the business logic associated with a Forms process. This means that you will disable the routing service for the Forms server located in the DMZ. The internal Forms server is a full installation of Forms. Both Forms servers will point to the same SQL Server instance and Forms database.

The DMZ Forms Server must be able to communicate with the internal SQL Server instance hosting the Forms database. And depending on authentication method, the DMZ Forms Server must also be able to communicate with either a Laserfiche Server instance or a Laserfiche Directory Server instance.

## Standard DMZ Configuration (Single Forms SQL Database)

The following configuration information applies to the DMZ Forms instance. There is no special configuration for the primary Forms Server instance located in the internal network.

### Configuration information for the DMZ Forms Server

You must configure the DMZ Forms server to point to the primary Forms server located within the internal network and disable the DMZ Forms Server's routing service.

1. Open the **FormsConfig** site on the DMZ Forms Server.
  - a. On the **Database** tab, configure the DMZ Forms Server to connect to your internal Forms Server SQL database.
  - b. On the **Forms Server** tab, specify the internal Forms Server URL.
  - c. On the **User Authentication** tab, specify the internal Laserfiche server host name. If Laserfiche Server is not running on port 80, make sure to specify the port value in the host name.

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**Note:** The Forms configuration site will not be able to validate these settings if the firewall is not configured to allow traffic between the DMZ Forms server and the internal network. Please see the [Firewall Considerations](#) section for more information.

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2. Browse to the DMZ Forms Server installation folder and open the Web.config file. By default, the file path is:

```
C:\Program Files\Laserfiche\Laserfiche Forms\Forms\Web.config
```

3. Locate the WCF client configuration block. For the **lfrouting**, **lfautotrigger**, and **lfformexport** endpoints, change the *localhost* references to point to your internal Forms server. See the bold sections in the following sample.

```
<endpoint address="net.tcp://localhost:8168/lfrouting"  
binding="netTcpBinding" bindingConfiguration="timeoutBinding"  
contract="Laserfiche.Forms.Routing.IRoutingEngineService" name="" />  
  
<endpoint address="net.tcp://localhost:8732/lfautotrigger"  
binding="netTcpBinding" bindingConfiguration="timeoutBinding"  
contract="FormsModel.SharedContracts.IAutoTrigger" name="" />  
  
<endpoint address="net.tcp://localhost:8736/lfformexport"  
binding="netTcpBinding" bindingConfiguration="timeoutBinding"  
contract="FormsModel.SharedContracts.IFormExportService" name="" />
```

4. Open the Windows Services Microsoft Management Console (MMC) snap-in
  - a. View the properties of the **Laserfiche Forms Routing Service** to **Stop** the service and change the **Startup type** to **Disabled**.
  - b. View the properties of the **Laserfiche Notification Hub Service** to **Stop** the service and change the startup type to **Disabled**.
  - c. View the properties of the **Laserfiche Notification Master Service** to **Stop** the service and change the startup type to **Disabled**.

## Firewall Considerations

The DMZ Forms Server must be able to communicate with the internal computers hosting the following services:

- The Primary Forms Server
- The Microsoft SQL Server instance hosting the Forms SQL database
- Either the Laserfiche Server or Directory Server

When opening ports in the firewall, make sure to only allow connections from the DMZ Forms Server.

### Primary Forms Server

When modifying the DMZ Forms Server Web.config, take note of the port values specified for the various endpoints. The DMZ Forms Server must be able to communicate with the internal Forms Server on these ports.

### SQL Server

Forms must also be able to communicate with the appropriate SQL Server. Make sure that the appropriate SQL Server port (the default value is port 1433) is open to traffic from the DMZ Forms Server.

### **If the DMZ Forms Server is configured to use Laserfiche Server authentication**

The DMZ Forms server must be able to communicate with your internal Laserfiche Server. By default, Laserfiche Server uses port 80 for unsecured traffic and port 443 for secure traffic and port 5051 for Laserfiche Server notifications.

### **If the DMZ Forms Server is configured to use Laserfiche Directory Server authentication**

The DMZ Forms server must be able to communicate with your internal Laserfiche Directory Server. By default, Directory Server uses port 5048 for unsecured traffic and port 5049 for secure traffic. This information is embedded in the Forms license file. By default, the Forms license file is located at:

C:\Program Files\Laserfiche\Laserfiche Forms\Forms\bin\lf.licx

Open the file and locate the **LicenseServerListeningPort** value.

### **Summary of common ports**

<b>Product</b>	<b>Ports</b>
Forms 10	80 for HTTP, 443 for HTTPS 8168 for lfouting 8732 for lfautotrigger 8736 for lfformexport
Directory Server 10	5048 for HTTP 5049 for HTTPS
Laserfiche Server 10	80 for HTTP 443 for HTTPS 5051 for notifications
Microsoft SQL Server	1433 for default instance



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