Fingerex for Windows 3.8
Installation & Configuration Guide
# Table of Contents

**BEFORE BEGINING** ............................................................................................................................... 3  

**SYSTEM REQUIREMENT** ........................................................................................................................... 3  

**NETWORK CONSIDERATION** .................................................................................................................... 3  

**SERVER INSTALLATION** .......................................................................................................................... 5  

**INSTALL ON SINGLE SERVER** .................................................................................................................. 5  

**SERVER CONFIGURATION** ....................................................................................................................... 9  

**START & STOP SERVICE** ......................................................................................................................... 12  

**CLIENT INSTALLATION** ........................................................................................................................... 12  

**DEVICE DRIVER INSTALLATION** ............................................................................................................... 12  

**THREE TYPES OF INSTALLATION** .......................................................................................................... 14  

**SANITY CHECK** ....................................................................................................................................... 17
Before Begining

System Requirement

Fingerex requires following environment for server installation.

For server;

<table>
<thead>
<tr>
<th>O/S:</th>
<th>Microsoft Windows 2000 Server or above</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPU:</td>
<td>Pentium4 1GHz or above</td>
</tr>
<tr>
<td>Memory:</td>
<td>1GB or above</td>
</tr>
<tr>
<td>HDD:</td>
<td>10GB</td>
</tr>
<tr>
<td>Application:</td>
<td>Microsoft IIS 5.0 or above</td>
</tr>
<tr>
<td>Database:</td>
<td>RDBMS with ADO support</td>
</tr>
<tr>
<td></td>
<td>(Example: Microsoft SQL server, Oracle,</td>
</tr>
<tr>
<td></td>
<td>Microsoft Access…etc.)</td>
</tr>
</tbody>
</table>

For client;

<table>
<thead>
<tr>
<th>O/S:</th>
<th>Microsoft Windows XP or newer</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPU:</td>
<td>Pentium4 1GHz or above</td>
</tr>
<tr>
<td>Memory:</td>
<td>Minimum requirement of O/S</td>
</tr>
<tr>
<td>HDD:</td>
<td>20MB</td>
</tr>
<tr>
<td>Application:</td>
<td>Microsoft IE 5.0 or above</td>
</tr>
<tr>
<td></td>
<td>(For web application logon)</td>
</tr>
</tbody>
</table>

Network Consideration

Fingerex requires certain network implementation. In a nutshell, Fingerex server should be able to communicate with
client and database system. Since Fingerex server does not communicate with legacy application system directly, no network connection between two system. This gives more secure networking design possibilities.

Fig 1 Typical Network Configuration
Server Installation

Install on Single Server

When you start installation, following dialog will appear.

After reading software license agreement, click “Yes”
Fingerex is being installed

![InstallShield Wizard](image)

After installation, you need reboot system.

![InstallShield Wizard](image)

After installation, you should be able to see following menu.
If you click “Fingerex Files”, you should see following contents.

- **DBSample**: Contains sample database files.
  - dbFingerex.mdb
  - TableScript.sql

- **Drivers**
- **Manual**
- **FXManager.exe**
Drivers Contains FD/FM fingerprint scan device driver

InstallPackages Contains three different packaged client application and fingerprint scan device driver auto installer.

- Client Files: File for include into your install package
- Normal: Self installation package
- WEB: For embedding inside web pages

Manual Contains all manual for Fingerex

SDK Samples Contains two samples.

- Microsoft .NET Sample (for Microsoft visual studio 2005 or new)
- WEB Sample
Server Configuration

Following picture shows Fingerex Manager, a configuration tool.

You can find general description on right side of panel.

Server IP

IP address of Fingerex server. If registered, Fingerex will only accept registered IP for connection. For example, if this IP has value of 127.0.0.1, only local connection is allowed. If server has multiple IP address and wants to accept
with specific IP, write down in this field. Initial value is blank—which mean accepting all connections.

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Server Port</td>
<td>TCP port for Fingerex service. Default is 1975.</td>
</tr>
<tr>
<td>Log Path</td>
<td>Location of Fingerex operation log. Default is Windows\System32\FXLogs</td>
</tr>
<tr>
<td>Auth Level</td>
<td>Strength of fingerprint authentication level. For current version, there are 3 options; 2 High Secure 1 Medium Secure 0 Lower Secure</td>
</tr>
<tr>
<td>Connection timeout</td>
<td>Timeout value for forced client hang-up by server. In milliseconds.</td>
</tr>
<tr>
<td>Max fingerprint per user</td>
<td>Maximum numbers of fingerprint per user on database</td>
</tr>
<tr>
<td>OTP Size</td>
<td>Length of onetime password for session identification. Default is 20.</td>
</tr>
<tr>
<td>DB Connection String</td>
<td>Database connection string. ADO connection needed.</td>
</tr>
</tbody>
</table>
Socket I/O Number of threads for communication handling.

Simultaneous Connections Number of maximum concurrent user connection to Fingerex server.

Following picture shows user list of Fingerex server.

Please note that SessionKey is not a permanent value but changing every fingerprint authentication. It is session based value.
Following picture shows log-managing panel. If you double-click on entry, a notepad will open with corresponding log.

Start & Stop Service

You can start & stop Fingerex service with Windows service called “Fingerex V38 NT Service”.

Client Installation

Device Driver Installation

Client PC needs to install device driver for FD or FM
fingerprint reader. When you executing device driver install program, following dialog will be display.

After click “Install” Button, following screen will display.
Be sure disconnecting FD or FM before clicking “OK”

Device driver installation is successful.

**Three Types of Installation**

There are three ways to install client module of Fingerex on individual PC:

- **Web .CAB installation**
  
  Web installation happens automatically when a client first opens logon page. No additional installation required.

- **Individual install program comes from Digent**
  
  There are client install package on Fingerex client CD. You can distribute among client to install.
Module for integrating into your install program

You can locate Fingerex client module on CD. You can include this module inside your install package for singular installation of all application for client PC.

Following is step by step procedure for individual install program from Digent.

Installation package can be found at C:\Program Files\Digent\Fingerex\Install Packages\Normal\FXClientComponent.exe

Installshield is preparing install.
Click “Next” to start installation.

Installation in progress.
Reboot after installation.

Sanity Check

To ensure its installation, you can check functionality with simple web based check.

You can find web pages on installed files.