Oracle® Hospitality Hotel Property Interface IfcControl User Guide



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ORACLE<sup>.</sup>

Oracle Hospitality Hotel Property Interface IfcControl User Guide Release 8.16.0.0

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### Preface

#### Purpose

This guide explains the common handling of the Ifc8.Net IfcControl module.

#### Audience

This document is intended for system administrators, support and users familiar with the Hotel Property Interface application IFC8.

#### **Customer Support**

To contact Oracle Customer Support, access Customer Support Portal at the following URL:

#### https://iccp.custhelp.com

When contacting Customer Support, please provide the following:

Product version and program/module name

Functional and technical description of the problem (include business impact)

Detailed step-by-step instructions to re-create

Exact error message received

Screen shots of each step you take

#### **Documentation**

Oracle Hospitality product documentation is available on the Oracle Help Center at

http://docs.oracle.com/en/industries/hospitality/

Table 1 Revision History

Date	Description
May 2024	Initial Publication

# General

IFC8 is used as the primary Property Interface application with Oracle Suite8 PMS and with Oracle OPERA PMS (On-Premises & Cloud).

IFC8 should be installed at the customer site for communication to certain external systems that are utilized by the site.

The IfcControl application is part of the Ifc8 version and provides an option allowing display of the status of current installed IFC8 instances – as an application or as service in one panel. It also manages the IFC8 service installation, configuration, and maintenance.

This document will outline the common configuration and handling of the lfcControl application.

# 2 Installing and Uninstalling IfcControl

### Install IfcControl

The IfcControl application is part of the IFC8.Net installer.

1. Run the IFC8.Net installer.



2. Select Next.

🛃 Oracle Hospitality Property Inte	×	
Destination Folder Click Next to install to this folder,	ser. 🌀	
Install Oracle Hospitality C:\Fidelio\Ifc8.Net\	/ Property Interface to:	Change
InstallShield	< Back Next >	Cancel
. Select <b>Next.</b>	4 - 10 · 1 - 4 - 11 16 1	
Oracle Hospitality Property Inte	erface V8 Install Wizard	, 
Choose the setup type that best	suits your needs.	
Please select a setup type.		
Complete	recuil be installed <i>(Decuires</i> the most d	link



4. Choose Custom and select Next.

Oracle Hospitality Property Interface V8. Custom Setup Select the program features you want installed.		- Install Wizard		×	
Click on an icon in the IfcAp IfcCo IfcBus IfcCo X v IfcSet	list below to change how a plication ntrol si gBrowser rvice	feature is ir	nstalled. Feature Descrip Installation of t module This feature re your hard drive	ption the ifc controller quires 2008KB on	
Install to: C:\Fidelio\Ifc8.Net\Ifc InstallShield	:Control\			Change	
Help	Space	< Back	Next >	Cancel	

Option IfcControl is available for installation by default. IfcControl will be installed to C:\Fidelio\Ifc8.Net\IfcControl folder.

#### 5. Select Next.



6. Select **Install** to proceed with the installation.

🛃 Oracle Hospitality Property	Interface V8 Install Wizard	Х		
InstallShield Wizard Completed				
	The InstallShield Wizard has successfully installed Oracle Hospitality Property Interface. Click Finish to exit the wizard			
	Show the Windows Installer log			
	< Back Finish Cancel			

7. Select Finish to close installer.

After installation you find the related files in c:\Fidelio\Ifc8.Net\IfcControl folder:

🗌 Name	Date modified	Туре	Size
☑ 18 IfcControl.exe	10/05/2022 07:23	Application	126 KB
lfcControl.dll	10/05/2022 07:23	Application exten	2,191 KB
IfcSuite8Wrapper.dll	10/05/2022 07:23	Application exten	39 KB
🚳 Interop.FidelioDatabase.dll	10/05/2022 07:23	Application exten	24 KB
Interop.fidelioerror.dll	10/05/2022 07:23	Application exten	14 KB
Interop.fidelioGlobalStatus.dll	10/05/2022 07:23	Application exten	46 KB
Interop.FideliolfcAction.dll	10/05/2022 07:23	Application exten	16 KB
Interop.FidelioPostings.dll	10/05/2022 07:23	Application exten	27 KB
System.Data.Odbc.dll	10/05/2022 07:23	Application exten	259 KB
System.Diagnostics.EventLog.dll	10/05/2022 07:23	Application exten	129 KB
System.DirectoryServices.AccountMa	10/05/2022 07:23	Application exten	269 KB
System.DirectoryServices.Protocols.dll	09/05/2022 14:54	Application exten	136 KB
System.Management.dll	10/05/2022 07:24	Application exten	284 KB
System.ServiceProcess.ServiceControll	10/05/2022 07:24	Application exten	60 KB
IfcControl.deps.json	10/05/2022 07:09	JSON File	5 KB
lfcControl.runtimeconfig.dev.json	02/05/2022 22:27	JSON File	1 KB
IfcControl.runtimeconfig.json	10/05/2022 07:09	JSON File	1 KB
lfcControl.xml	11/05/2022 10:32	XML Document	3 KB

### IfcControl file description

File Name	Description	Notes
IfcControl.exe.config	Mandatory config file	Do not delete or change
IfcControl.dll	Data Link Library	Do not delete or change
Interop.xxx.dll	Mandatory files	Suite8 only (will always be deployed)
System*.dll	Mandatory files	Additional Libraires
IfcControl.xml	Mandatory files	Configuration file

### **Uninstall IfcControl**

Use the Ifc8.Net installer to uninstall the IfcControl application.

After uninstallation the configuration file <code>lfcControl.xml</code> will remain in the directory.

# 3 Configuring Connections

### Starting IfcControl and Initial Connection

Execute IfcControl.exe from out the \Ifc8.Net\IfcControl folder or through Windows Start Menu \ ORACLE Hospitality Property Interface folder.



When you first start the IfcControl Program you will be presented with a blank canvas with a default connection, Local Machine (127.0.0.1) and Default Port (5101).

B IfcControl[IfcControl] - V8.15. (Adm	iinistrator)	-		×
IfcConnect - IfcProcess - View - SsICe	ert. Server/Client:			Ŧ
□	13.05.22 10:16:56.030 Main         : Unable to read security attributes.: Invalid or miss           13.05.22 10:17:01.361 Main         : Configuration was updated automatically	sing sec	urity att	ibute
IfcConnect: left click to	o configure / right click for options / double click for start connection			
Log: Cfg:				

If there is an IFC8 configured with the default port up & running you can start the connection by a double-click.

A new form will appear requesting the input of your Windows credentials (Win User).

IfcControl[IfcControl] - V8.15     (Adm       IfcConnect • IfcProcess • View •     SslCe	inistrator) int. Server/Client:	-		×
□	13.05.22       10:16:56.030       Main       : Unable to read security attributes.: Invalid or 13.05.22         13.05.22       10:17:01.361       Main       :: Configuration was updated automatically         13.05.22       10:36:25.781       Main       :: [127:0.0.1:5101]         13.05.22       10:36:25.814       Main       :: [127:0.0.1:5101]         13.05.22       10:36:25.814       Main       :: [127:0.0.1:5101]         13.05.22       10:36:25.828       Main       :: [127:0.0.1:5101]         13.05       20:36:25.828       Main       :: [127:0.0.1:5101]         13.05       User Name:	nissing sex xt_Connecte + Port_Open t / / To_Be t / / Receiv	urity attr d	d /
Log: Cfg:				

#### Once the credentials are correctly entered the Ifc Forms will display.

8 IfcControl[IfcControl] - V8.15.	(Administrator)				:	×
IfcConnect + IfcProcess + View +	SslCert. Server/Client:		-	-		
E-127.0.0.1:5101	<mark>☑ lfc1 ☑ Pms1</mark> ☑ l	Pms2 ✓ Main MessLvl3 ∨ ✓ →	✓ ← ✓ ⇒ ✓ <= DbAction	Style: Debug 🗸 🗹 MonitorRefresh	Bottom M87POS_SPH_Log.XI	ML
	TimeStamp	Ifc1 M87POS_SPH⇔TCP_S=5009:LOCAL Link:End <mark>Comm:Asyn</mark>	Pms1 OPERA⇔TCP_C=5501:LOCAL Link:Start Comm:Sync	Pms2 OPERA⇔TCP_C=5501:LOCAL Link:Start Comm:Sync	Main-V8.15.0.0(A) IfcControl ⇔ TCP=5101:LOCAL Link:Alive Comm:Sync	^
					[IfcMain.moStateTimer_Elapsed /28] Garbage collection done (memory usage 109-109MB)	
	<u>[05.13/10:40:13]</u>				<messlv13> [IfcMain.moStateTimer_Elapsed /7] Garbage collection done (memory usage 110-110MB)</messlv13>	
	<u>[05.13/10:40:431</u>				<pre><messlv11> [IfcMain.CtrlComm_ReceivedFun c/3](127.0.0.1:57619) Successful login - Remote conn. via Domain="" User="kareynol"</messlv11></pre>	
<	<u>[05.13/10:41:14]</u>				<messlvl3> [IfcMain.moStateTimer_Elapsed /7] Garbage collection done (memory usage 110-110MB)</messlvl3>	~
Log: C:\Fidelio\lfc8.Net\lfcApplica	tion\ FKT LOGO\M87\N	187POS SPH Log.XML (1 Monitems/0.0	6+0.07sec.) Cfa: C:\Fidelio\lfc8.Net\	IfcApplication\ FKT LOGO\M87\M87.x	ml	

#### Modifying a connection

If no IFC8 connections exist with a default port or you are connecting to a remote machine you will need to modify the default connection offered.

To do this, right click on the existing entry and select Modify Connection.

Alternatively select Modify Connection from the drop-down menu.



In either scenario a configuration screen will appear where you can adjust the IP Address or Port accordingly. IP Address and port are separated by a colon (:)

8 IfcControl[IfcControl] - V8.15.	(Administrator)
IfcConnect - IfcProcess - View -	SsICert. Server/Client:
□	11.05.22 10:50:11.204 Main 11.05.22 10:50:21.747 Main :

### Adding a New Connection

Connect • IfcProcess • View • SsIC	Cert. Server/Client:		*	
Start Connection	🔽 lfc1 🔽 Pms1 🖉 M	lain <mark>MessLvl3</mark> ∨ <mark>] →</mark> ]	← 🗹 => 🗹 <= 🗌 DbActio	N Style: Debug M87POS_Log
Stop all Connections Modify Connection	TimeStamp	Ifc1 M87POS⇔TCP=5001:LOCAL Link:Alive Comm:Sync	<b>Pms1</b> OPERA ⇔ TCP=5501:10.64.197.0 Link:Alive Comm:Sync	Main-V8.16.0.0(A) IfcControl ↔ TCP=5101:LOCAL
Add Connection				apsed/11] Garbage
Delete Connection				collection done (memory usage 167→167MB)
Hide Connection	104.28/15:42:161			<messlvl3></messlvl3>
Install as Service				[IfcMain.moStateTimer_E. apsed/11] Garbage
Add to Service				collection done (memory
Get IFC8.Net (remote) Services:	[04.28/15:43:18]			<messlvl3></messlvl3>
Advanced Configuration				[IfcMain.moStateTimer_E
Close Alt+X				collection done (memory usage 167-167MB)
	<u>104.28/15:44:191</u>			<messlvl3> [IfcMain.moStateTimer_E</messlvl3>
				apsed/26] Garbage collection done (memory usage 166-166MB)

Select Add Connection from the IfcConnect drop down menu

The proceed to enter the IP Address and port of the IfcControl Object to connect to.

Port and address are separated by a colon (: ).

The Port must correspond to the Port configured in Ifc8.NET MAIN Object of the Instance you wish to connect to.

1			_
127.0.0.1:5101	28.04.24 15:27:55.756 Main	: Send request: RequestLinkStart	
M87POS - Oracle Micros 3700/870	28.04.24 15:27:55.772 Main	: SendData - Daten gesendet (181 Bytes)	
127.0.0.1:5102	28.04.24 15:27:56.117 Main	: Received data	
	28.04.24 15:27:56.247 Main	: Q-Handler.GetNextEntry(): RequestLinkStart / RequestLinkStart / / Received_Reply /	
Chikilown hcriocess	28.04.24 15:27:56.252 Main	: Received reply: RequestLinkStart	
	28.04.24 15:27:56.257 Main	: Request finished: RequestLinkStart	
	28.04.24 15:30:50.599 Main	: Added to queue: LinkAlive Request	
	28.04.24 15:30:50.830 Main	: Q-Handler.GetNextEntry(): RequestLinkAlive / RequestLinkAlive / / To_Be_Processed /	
	28.04.24 15:30:50.842 Main	: Send request: RequestLinkAlive	
	28.04.24 15:30:50.860 Main	: SendData - Daten gesendet (919 Bytes)	
	28.04.24 15:30:50.913 Main	: Received data	
	28.04.24 15:30:50.941 Main	: LinkAction authentication accepted	
	28.04.24 15:30:50.950 Main	: Received data	
	28.04.24 15:30:50.976 Main	: Got LinkState for Ifc1: Alive	
	28.04.24 15:30:50.989 Main	: Got LinkState for Pms1: Alive	
	28.04.24 15:30:51.506 Main	: Q-Handler.GetNextEntry(): RequestLinkAlive / RequestLinkAlive / / Received_Reply /	
	28.04.24 15:30:51.525 Main	: Received reply: RequestLinkAlive	
	28.04.24 15:30:51.540 Main	: Request finished: RequestLinkAlive	
	28.04.24 15:34:01.886 Main	: Closing connection	
	28.04.24 15:34:01.889 Main	: Stopped BG-Read-Thread.	
	28.04.24 15:34:01.891 Main	: [127.0.0.1:5101]Comm status changed: Port_Open → Port_Not_Connected	
	28.04.24 15:34:01.895 Main	: Closed TCP-Client: port <5101>	
	28.04.24 15:34:01.905 Main	: [127.0.0.1:5101]Comm status changed: Port_Not_Connected → Port_Closed	
	28.04.24 15:34:01.927 Main	: Stop connection	
	28.04.24 15:34:01.895 Ma	ain <u>TCPClient_ReceiveMessages: Exception at ReceiveData: A blocking operati</u>	bn
	28 04 24 15:34:01 947 Main	: TCPClient ReceiveMessages: Read-Thread ended normally.	

### Adding Connection from remote Machines

To add connection form remote machines, we have two Possibilities.

- 1. As a simple connection using the drop-down menu as explained above in the add new connection section.
- 2. Retrieving the Ifc8 Services on a remote Machine. This is done via the drop-down menu.
- 3. Select the Get IFC8.Net (remote) Services Option.

incritects their	00100		
Start Connection		28.04.24 15:27:55.756 Main	: Send request: RequestLinkStart
Start all Connections		28.04.24 15:27:55.772 Main	: SendData - Daten gesendet (181 Bytes)
start an connections		28.04.24 15:27:56.117 Main	: Received data
Stop all Connections		28.04.24 15:27:56.247 Main	: Q-Handler.GetNextEntry(): RequestLinkStart / RequestLinkStart / / Received_Reply /
		28.04.24 15:27:56.252 Main	: Received reply: RequestLinkStart
Modify Connection		28.04.24 15:27:56.257 Main	: Request finished: RequestLinkStart
Add Connection		28.04.24 15:30:50.599 Main	: Added to queue: LinkAlive Request
Add connection		28.04.24 15:30:50.830 Main	: Q-Handler.GetNextEntry(): RequestLinkAlive / RequestLinkAlive / / To_Be_Processed /
Delete Connection		28.04.24 15:30:50.842 Main	: Send request: RequestLinkAlive
		28.04.24 15:30:50.860 Main	: SendData - Daten gesendet (919 Bytes)
Hide Connection		28.04.24 15:30:50.913 Main	: Received data
		-28.04.24 15:30:50.941 Main	: LinkAction authentication accepted
Install new IfcProcess as Serv	/ice	28.04.24 15:30:50.950 Main	: Received data
Add to Canving		28.04.24 15:30:50.976 Main	: Got LinkState for Ifc1: Alive
Add to service		28.04.24 15:30:50.989 Main	: Got LinkState for Pms1: Alive
Get IFC8.Net (remote) Servic	es: +	127001	andler.GetNextEntry(): RequestLinkAlive / RequestLinkAlive / / Received_Reply /
			uset foiled: Deputitive line line
Advanced Configuration		29 04 24 15:24:01 996 Main	
		28 04 24 15:34:01 889 Main	Stonged BG-Read-Thread
Close A	Alt+X	28 04 24 15:34:01 891 Main	I 1270.0.1:51011Commistatus changed: Port. Onen Port. Not. Connected
		128 04 24 15:34:01 895 Main	Closed TCP-Client: nort <5101>
		28 04 24 15:34:01 905 Main	I 1270.0.1:51011Commistatus changed: Port. Not. Connected → Port. Closed
		28 04 24 15:34:01 927 Main	Stop connection
		28.04.24 15:34:01 895 Ma	TCPClient ReceiveMessages: Exception at ReceiveData: A blocking operation
		28.04.24 15:34:01.947 Main	: TCPClient ReceiveMessages: Read-Thread ended normally.

Here the IP Address of the remote Machine is entered and confirmed by enter  $\lrcorner$ 

cConnect • IfcProcess • View • SsICer	rt. Server/Client:		•	
M87POS - Oracle Micros 3700/870	V Ifc1 V Pms1 V Main	MessLvl3 ∨ 🔲 → 🗌	← 🕗 => 🕗 <= 🗌 DI	Action Style: Debug M87POS_Log.XM
	TimeStamp M87PC Link	Ifc1 DS⇔TCP=5001:LOCAL Alive Comm:Sync	Pms1 OPERA⇔TCP=55 Link:Alive Comm:S	Main-V8.16 IfcControl⇔TCP=5101:LOCAL
	Authentication	by Win user on "celvpvm	0118 ×	apsed/11] Garbage collection done (memory usage 166-166MB)
	104.28/1 User Name:	%USERNAME%		<messlv13></messlv13>
	Win Domain:	%DOMAIN%		apsed/11] Garbage
	Password:	•••••		collection done (memory usage 166→166MB)
	104.28/1		Login	<pre><messlv13> [IfcMain.moStateTimer_El apsed/6] Garbage collection done (memory usage 167-167MB)</messlv13></pre>
	104.28/15:58:411			<pre><messlvl3> [IfcMain.moStateTimer_El apsed/6] Garbage collection done (memory usage 167-167MB)</messlvl3></pre>

A request for credentials for the other Machine will pop up.

Log: C:\Fidelio\lfc8.Net\lfcApplication\\_FKT\_LOGO\M87\M87POS\_Log.XML (1 MonItems/0,06+0,02sec.) Cfg:

This may take some time depending on your Network / Domain structure.

When the Authentication is successful a screen will offer the services installed on the remote Machine for selection.

If Control[If COntrol] - V8.15.     If COnnect - If CProcess - View -     If CProcess -     If CPr	(Administrator) SsiCet. Server/Client ▼ 1000 Stamp Pms2 Main] Me 1005.13/14:41:231 105.13/14:41:231 105.13/14:41:231 105.13/14:44:281	Select RoServices on '10. 1241':  Geok Ter Service Silvasia  FC0 NET-SERVICE_SIMeSIM02  FC0 NET-SERVICE_SIMeSIM03	Style: Debug V MontorRefeeth Pms2 OPERA w TCP_C+S50110CAL Link: Start CommtSync	− □ ×     M87POS_SPH_Log XML     Main-V8.15.0.0 (A)     MicControl = TCP-SIOL10.0AL     MicControl = TCP-SIOL10.0AL
< >> Log: C:\Fidelio\Ifc8.Net\IfcApplica	tion\ FKT LOGO\M87\M87POS SPH Log.XM	OK	IfcApplication\ FKT LOGO\M87\M87.x	[IfcMain.moStateTimer_Elapsed /21] Garbage collection done (memory usage 97→97MB)

Mark the Ifc8 Services you wish to add to your IfcControl Configuration and select OK. The Ifc8 Connections to the remote Services will then be available on the IfcControl form.

8 IfcControl[IfcControl] - V8.15.	(Administrator)	-	×
IfcConnect + IfcProcess + View +	SslCert. Server/Client: *		
10         241-5112 (Servet)           10         241-5113 (Servet)           10         241-5113 (Servet)           10         241-5111 (Servet)           10         241-5111 (Servet)           11         Servet)           12         241-5111 (Servet)           13         ISControl connect           14         270-0.15101           15         1510 (Servet)           17         270.015102           17         270.015102           16         37.015102           17         270.015102           16         37.015102	1310.22         14.933.5463         Amade CellNetEnty(): RequestInk/Sarl / MequestInk/Sarl / Wat, For, Rep/           130.52         14.933.5454         Amade CellNetEnty(): RequestInk/Sarl / RequestInk/Sarl / Wat, For, Rep/           130.52         14.933.5454         Amade CellNetEnty(): RequestInk/Sarl / RequestInk/Sarl / Wat, For, Rep/           130.52         14.933.5545         Amade CellNetEnty(): RequestInk/Sarl / RequestInk/Sarl / Wat, For, Rep/           130.52         14.933.5544         Amade CellNetEnty(): RequestInk/Sarl / RequestInk/Sarl / Wat, For, Rep/           130.52         14.933.5544         Amade CellNetEnty(): RequestInk/Sarl / RequestInk/Sarl / Wat, For, Rep/           130.52         14.933.5544         Amade CellNetEnty(): RequestInk/Sarl / RequestInk/Sarl / Wat, For, Rep/           130.52         14.933.6044         Amade CellNetEnty(): RequestInk/Sarl / RequestInk/Sarl / Wat, For, Rep/           130.52         14.933.6044         Amade CellNetEnty(): RequestInk/Sarl / RequestInk/Sarl / Wat, For, Rep/           130.52         14.933.642         Mam         C-Hander CellNetEnty(): RequestInk/Sarl / RequestInk/Sarl / Wat, For, Rep/           130.52         14.933.643         Mam         C-Hander CellNetEnty(): RequestInk/Sarl / RequestInk/Sarl / Wat, For, Rep/           130.52         14.933.643         Mam         C-Hander CellNetEnty(): RequestInk/Sarl / RequestInk/Sarl / Wat, For, Rep/           130.52         <		
< >>	13.05.22 14:59:38.059 Main : Englised: RequestLinkStart :		¥
Log: C:\Fidelio\lfc8.Net\lfcApplica	tion\_FKT_LOGO\M87\M87POS_SPH_Log.XML (1 MonItems/0.09+0.01sec.) Cfg: \\10.165.120.241\lfc8.Net\FKT\SIMtoSIM2\SIMtoSIM.xml		

## 4 Installing Services

If this is the first time you are Installing Services with Ifc8.Net 8.15.x please read all the documentation pertaining to Services before proceeding. In Particular the handling Section, to ensure any choices to be made are done soi on an informed basis.

### Installing Ifc8 as a Service

To Install Ifc8 as a Service mark the Ifc8 connection of the Interface to be installed as a service. From the drop-down menu or by right click select.



The first step will be to confirm / indicate where the bin sub-directory of the services directory is located. The default would be \fidelio\Ifc8.Net\Services\Bin.

If it is located somewhere else (Non-Standard Installation), it should be linked in this step.

8 Select	the lfc8.Net-Service installation source folder - (*.*)	×
C:\Fidelio	fc8.Net\lfcService\bin	
	\$MfeDeepRem	~
🗉 🗉 🗹 🔼	\$Recycle.Bin	
📃 🕀 🔁	\$WINDOWS.~BT	
📄 🗄 🖬 🗾	\$Windows.~WS	
📄 🖻 🖬 🔼	\$Win REAgent	
🖌	.nLj0FKLa9u_Oracle	
🗉 🗉 🗖	oracleprinters	
📔 🗄 🕂 🗖	Boot	
🛛 🛨 🗠 📥	Config.Msi	
<u>+</u>	Documents and Settings	
E E -	Drivers	
l ! ! ! ! ! ! ! ! !	ESD	
	Kall Nat	
	ICO.Net	
	bin	
		×
bin		
Dire	OK C	ancel

Mark the Bin Directory and select OK.

Next step is to indicate in which directory the Services are to be installed.

Recommendation is to have a "Installed Services" Directory where each individual service is installed in its own sub-directory. The Sub-Directory should carry a unique clear name. Either of the FKT\_LOGO, HOTEL, MACHINE this depends on if you wish to group Ifc8.Net Instances under one Service or not and if so according to which criteria.

Here the installation will group all Ifc8.Net Instances form one Property "Hotel Demo" together.



If c8.Net offers the ability to configure multiple If c8.Net Interfaces under one Service. It is therefore recommended that only one Service be installed per machine or Property. In this example the Services will be installed under  $\label{eq:listalled_Service} $$ A directory created using the 'Make New Folder' button. $$$ 

#### What happens in the background?

If cControl will copy the If cService files from the \If cService \bin folder into the new folder you created.

Once the directory is defined, the Service Name and parameters need to be entered.

fcNetProcess ConfigXml file: C:\Fidelio\lfc8.Net(\lfcApplication\_FKT_LOGO\M87\M87.xml fcNetProcess parameters (use spaces as separator):	ICINETService ServiceID (no spaces or special chara DEMO_HOTEL	cters):
fcNetProcess parameters (use spaces as separator):	fcNetProcess ConfiaXml file:	
fcNetProcess parameters (use spaces as separator):	C:\Fidelio\lfc8.Net\lfcApplication\ FKT LOGO\M87\M87	.xml
	lfcNetProcess parameters (use spaces as separator +V	):
Cancel OK	lfcNetProcess parameters (use spaces as separator +V Cancel	<b>)</b> : OK

Note that the form will not allow you to proceed with an invalid entry.

0\M87\M87.vml
o (mo) (mo) .xm
separator):
s separator):
s separator):
s separator):

**IfcNetService Service ID:** Freely definable using NO special characters except for a dash / hyphen "- "

#### IfcNetProcess parameters

"+A"

Start All Connections Automatically

This option will start all connections associated with this service automatically

"+C"

Start in Configuration Mode

IFC8 will start in 'Configuration Mode' and will not attempt to connect to the PMS (and subsequently not to a vendor system).

"+V"

### Pack IHST Table and rebuild IDRV and IWKC views For Suite8 PMS Interface only!

Added functionality into IFC8 to rebuild all Interface related views. To activate this, please add a "+V" to the command line:

This option will as well pack IHST depending on the settings in IDRV and IWKC.

If the Service is intended for an OPERA / CLOUD PMS Installations, please remove if unwanted.

#### **Configuring IfcService**

If cControl module offers the option to configure If c8 instances as service or remove from an installed service.

It is also possible to maintain Ifc8.Net services by starting and stopping the service.

Select **OK** to continue.

The Service will now be installed.

Once done the IfcControl shows the connection being installed as service with updated connection name.

8 IfcControl[IfcControl] - V8. (Administrator)
IfcConnect - IfcProcess - View - SsICert. Server/Client
□       127.0.0.1:5101 (Service-DEMO-HOTEL )         □       0         □       0         0       0.01:5102         □       127.0.0.1:5102         □       127.0.0.1:5102         □       127.0.0.1:5102         □       127.0.0.1:5103         □       127.0.0.1:5103         □       ■         □       FIAS - Oracle Property Interface based on FIAS
< >
Log: C:\Fidelio\lfc8.Net\lfcApplication\_FKT LOGO\M87

In the Windows Services list the IFC8NET-SERVICE is now visible.



#### NOTE:

The service will be installed with StartupType = **Manual** by default.

Please ensure to change this to Automatic afterwards

### Adding Ifc8 Instance to Existing Ifc8 Service

As previously stated, it is possible to combine multiple Ifc8 instances into one Ifc8 service.

This can be done when e.g., multiple Ifc8 instances of multiple Hotel properties run on the same PC and shall run as a service.

One can define one Ifc8 service containing all Ifc8 instances for one Hotel property, or One Machine, the logic of which Interfaces are combined is freely definable.

It is also possible to define One Service for One Interface

- 1. Mark the Ifc8 instance to add to a service.
- 2. Select IfcConnect menu and choose Add to Service or right click marked Ifc8 instance and choose Add to Service.

The menu now offers the service the instance can be added to

Connect + IfcProce	ss • View • SslCert. Server/Clien	t		*	•	
127.0.0.1.5101 ( M87POS_SE	Service-DEMO-HOTEL   ) PH - Oracle MICROS Simphony - Oracle	Mc1 Pms1	Pms2 Main MessLvl3 ~	→	DbAction Style: Debug ~	MonitorRefresh 🗹 📴 TLP_Log
127.00.15 B- TLP - T 127.0.0.15 B A FIAS - C	Stop Connection Modify Connection Add Connection	TimeStamp	Ifc1 TLP = TCP_S=5001LOCAL Link:End Comm:Asyn	Pms1 OPERA == TCP_C=550110CAL Link:Start Comm:Sync	Pms2 OPERA == TCP_C=5501LOCAL Link:Start Comm:Sync	Main-V8.15. IfcControl ⇔ TCP=5102LOCAL Bink:Alive Comm:Sync
	Delete Connection Hide Connection					[IfcMain.moStateTimer_E apsed/17] Garbage collection done (memory usage 93-93MB)
	Add to Service	► IFC8.NET-SE	RVICE (DEMO-HOTEL)			<pre></pre> dessLvl3> [IfcMain.moStateTimer_B apsed/16] Garbage
	Create certificate	-				collection done (memory usage 93-93MB)
		105.16/11:47:251				<pre><messlv13> [IfcMain.moStateTimer_E apsed/16] Garbage collection done (memory usage 94-94MB)</messlv13></pre>

3. Select the desired Service and a new form will open.

Verify IfcNetService settings	>
IfcNetProcess ConfigXml file:	
C:\Fidelio\lfc8.Net\lfcApplication\_FK	T_LOGO\HT24\HT24.xml
IfcNetProcess parameters (use sp	aces as separator):
lfcNetProcess parameters (use sp <mark>+V</mark>	aces as separator):
lfcNetProcess parameters (use sp <mark>+V</mark>	aces as separator):
IfcNetProcess parameters (use sp ➡▼ Cancel	aces as separator):

#### 4. Enter the optional start parameter as required

Verify IfcNetService settings	×
IfcNetProcess ConfigXml file:	
C:\Fidelio\lfc8.Net\lfcApplication\_FKT_LOGO\HT24\F	IT24.xml
IfcNetProcess parameters (use spaces as separate	or):
<u>I</u>	
Cancel	ОК

- 5. Click **OK** to confirm adding to service.
- 6. Press Cancel to go back.
- 7. After you click **OK** IfcControl adds the Ifc8 instance to the chosen Service.

fcConnect • IfcProcess • View • SsICert. Server/Clien	t		*	*	
■ 127.0.0.1.5101 (Service-DEMO-HOTEL ■)	In Incl Pms 1	ms2 Main MessLv13 V	→ + Ø => Ø <=	DbAction Style: Debug ~	MonitorRefresh 🕢 🎦 TLP_Log XN
Hor Constant Con	TimeStamp	Ifc1 TLP == TCP_S-5001-LOCAL Link:End Comm:Asyn	Pms1 OPERA == TCP_C=SS01LOCAL Link:Start Comm:Sync	Pms2 OPERA == TCP_C=5501LOCAL Link:Start CommiSync	Main-V8.15 (A) IfcControl == TCP=5102LDCAL Link:Alive Coum: Sync
					[IfcMain.moStateTimer_E1 apsed/17] Garbage collection done (memory usage 94-94MB)
	105.16/11:51:351				<pre><messlvl3> [IfcMain.moStateTimer_El apsed/16] Garbage collection done (memory usage 93-93MB)</messlvl3></pre>
<	105.16/11:52:371				<pre><messlv13> (IfcMain.moStateTimer_El apsed/7] Garbage collection done (memory usage 94-94MB)</messlv13></pre>

### **Removing from Service**

To remove an Ifc8 instance from an IfcService perform following steps:

- 1. Mark the lfc8 instance to remove from service:
- 2. Select IfcConnect Remove from Service or right-click the marked Ifc8 instance Remove from Service



After you click on this menu item, the Ifc8 instance will be removed from the Service.



As there is no warning message, ensure to only click on Remove from Service.

#### **Displaying Service Status**

IfcControl will display and icon showing the current Service Status.

It can display if the Ifc Service instance is started, stopped or paused.

Ifc Service state	us
-------------------	----

Icon	Description
►	Status Service started / running
•	Status Service stopped
н	Status Service paused

The status icon is displayed at the end of the lfc instance name



127.0.0.1:5207 (Service-IFC8-Hotel1 
)

#### **NOTE**:

Even the Ifc Service is in status started / running it does not mean that the linked Ifc process is also started and running.

#### Starting IFC Service Instance

After installation of the Ifc service instance the user can now start the service via IfcControl.

For starting or stopping the IFC8 service no lfcControl connection to the related lfc8 instance is necessary.

- 1. Mark one lfc instance of the lfcService to start.
- 2. Select IfcConnect menu option or right-click on the marked connection.
- 3. Select Start Service.



#### The Service starts.

Status can be checked in Windows Services list.

Services (Local)					
-CO bernees (abeen)					
IFC8.NET-SERVICE (DEMO-HOTEL)	Name	Description	Status	Startup Type	Log On As
	IFC8.NET-SERVICE (DEMO-HOTEL)	Starts Oracle Hospitality Property Interface as a service.	Running	Manual	Local Syste
Stop the service	WHEN IN A DEBUG OF A REAL PROPERTY OF A REAL PROPER	THE DEFENSE IN THE REPORT OF THE PARTY OF	n -	A 1 12 17	1 10 1

### **Stopping IFC Service**

To stop a IFC8 service via IfcControl

1. Mark the Ifc8 Service to stop.

Via IfcControl

- 2. Select lfcConnect menu option or right-click on the marked connection.
- 3. Select Stop Service.

Via Right Click



#### The Service will stop.

Status can be checked in Services list:

Services (Local)					
IFC8.NET-SERVICE (DEMO-HOTEL)	Name	Description	Status	Startup Type	Log On As
	IFC8.NET-SERVICE (DEMO-HOTEL)	Starts Oracle Hospitality Property Interface as a service.		Manual	Local System

### **Upgrading Services**

IfcControl can upgrade local Services after a general IFC8 software Upgrade.



Select the  $\ensuremath{\textbf{Update selected IfcService}}$  option for a Singular Service

or

Update all visible local services.

Then select the source bin to update from:



And IfcControl will update the service accordingly.

IfcControl V8.		×
Upd "IFC	ate: 3.NET-SERVICE_M87-KAI* V8. 17647 V8. 17647	?
	OK Cancel	
lfcContro	I V8.	×
i	Update: IFC8.NET-SERVICE_M87-KAI → done	
	OK Cancel	

The IfcControl Program will then:

- 1. Stop The Service
- 2. Update the Service
- 3. Update the corresponding XML Configuration File
- 4. Restart the Service

In the case that one selects update all visible Services this will be done sequentially.

In other words, first service A, then Services B etc. So, to cause the least disruption possible.

#### NOTE:

Only Visible Services will be updated!

Visible is a local Service (This Machine) that is running.

# 5 Creating New Interface from IfcControl

It is possible to create a new Interface from scratch out of the IfcControl Program. Follow the following steps.

### **Adding Connection**



### Defining the port to be used for communication.

Connect • IfcProcess • View • SsICert. Server/Client:	•
E-127.0.0.1:5101 M87POS_SPH - Oracle MICROS Simphony - Oracle	20.01.23 11:44:11.689 Main : [127.0.0.1:5102]Comm status changed: Port_Closed - 20.01.23 11:44:11.739 Main : Try to connect to IP-Adress: 127.0.0.1:5102
	20.01.23 11:44:17.273 Main : Try to connect to IP-Adress: 127.0.0.1:5102 20.01.23 11:44:17.273 Main : Try to connect to IP-Adress: 127.0.0.1:5102 20.01.23 11:44:17.734 Main : Closing connection
	20.01.23 11:44:17.742 Main : [127.0.0.1:5102]Comm status changed: Port_Not_Cor 20.01.23 11:44:17.766 Main : Stop connection 20.01.23 11:44:17.766 Main : Turnent on connect to 127.0.0.1:5102

Once confirmed a new selection is available in the drop-down menu for lfcConnect.

### Installing new IfcProcess as Service



Once selected the service Installation source folder needs to be selected.



By default, this would be the bin folder.

Next the Service destination folder is defined.



This can be any folder you choose. Using the "Make New Folder" one can define the location and tree structure as one wishes. In this example an Installed Services directory was created containing folder for each individual service.

#### Verifing Ifc Service Settings

/erify lfcNetService settings	>
If NetService ServiceID (no whitespaces or special characters):	
Define a new IfcNetProcess ConfigXml file:	
C:\Fidelio\frc8.Net\frcConfig\frc8NetConfig_1.Xml	
lfcNetProcess parameters (use spaces as separator):	
"+CICP:5102 FI:FIAS FP:OPERACS:lfc8.Net-CertServ.pfx:[PASSWORD]CC:lfc8.Net-CertClien.ot"	
Cancel	ОК

After creating / selecting the folder you wish to use a settings verification page will appear

Service ID: Used to identify the Service (Usually the FKT LOGO) default is the folder name selected previously.

Config.Xml file: The file name for the xml file that will be saved.

- Parameters: CP:The port to communicated on. (IfcControl to Service) (Required)
  - FI: Interface Object Parser (Default is FIAS) (Required)
  - CS: Server Certificate name with password inclosed in [] (Optional)
  - CC: Client Certificate name (Optional)

Adjust or remove the optional defaults as required, see example below the select OK.

erify lfcNetService settings	>
IfcNetService ServiceID (no whitespaces or special characters): TLP	
Define a new lfcNetProcess ConfigXml file: C:\Fidelio\lfc8.Net\lfcConfig\lfc8NetConfig_4 Xml	
IfcNetProcess parameters (use spaces as separator): "+CICP.5103IFI:FIASIFP-OPERA"	
Cancel	ок

#### 

Parameters are separated by the pipe symbol " | "

The parameter line / variables are enclosed by quotation marks " "

#### Completing the Installation

Once completed the new connection / Interface will be listed like this.

8 IfcControl[IfcControl] - V8. (Administrator)			-		$\times$
IfcConnect + IfcProcess + View + SslCert. Server/Client:		•			5
127.0.0.1.5103 (Service-TLP =)     28 Unknown ficProcess     127.0.0.1.5101     X50 MR2POS SPH . Oracle MICBOS Symphony - Oracle	20.01.23 13:21:20.000 Main 20.01.23 13:21:20.569 Main 20.01.23 13:21:25.601 Main 20.01.23 13:21:25.601 Main	: Try to connect to n : Timeout : Try to connect to n : Timeout	IP-Adress: 127.0 on connect to IP-Adress: 127.0 on connect to	0.1:5102 :127.0.0. 0.1:5102 :127.0.0.	.1:510 ^ .1:510
Kei Norr oo_or rr ordate niter too angenary ordate	20.01.23 13:21:31,186 Main click for options 36,767 Main	Try to connect to Timeout Try to connect to	IP-Adress: 127.0 on connect to IP-Adress: 127.0	0.1:5102 :127.0.0. 0.1:5102	1:510
	20.01.23 13:21:37.319 Main 20.01.23 13:21:42.354 Main 20.01.23 13:21:42.893 Main 20.01.23 13:21:42.893 Main	n : Timeout : Try to connect to n : Timeout	on connect to IP-Adress: 127.0 on connect to	0.1:5102 127.0.0 127.0.0	1:510 .1:510
	20.01.23 13:21:47.527 Main 20.01.23 13:21:48.462 Main 20.01.23 13:21:53.522 Main 20.01.23 13:21:53.522 Main	Thy to connect to Timeout Try to connect to	on connect to IP-Adress: 127.0	.127.0.0 0.1:5102	1:510
	20.01.23 13:21:59.134 Main 20.01.23 13:21:59.134 Main 20.01.23 13:21:59.716 Main 20.01.23 13:22:04 790 Main	Try to connect to	IP-Adress: 127.0 on connect to	0.1:5102	1:510
	20.01.23 13:22:04.780 Main 20.01.23 13:22:05.374 Main 20.01.23 13:22:10.411 Main 20.01.23 13:22:10.411 Main	Try to connect to	on connect to IP-Adress: 127.0	:127.0.0 0.1:5102	1:510
	20.01.23 13:22:10.948 Main 20.01.23 13:22:16.010 Main 20.01.23 13:22:16.534 Main 20.01.23 13:22:16.534 Main	Try to connect to	IP-Adress: 127.0	0.1:5102	.1:510
	20.01.23 13:22:21.576 Main 20.01.23 13:22:22.178 Main	: Try to connect to n : Timeout	on connect to	0.1:5102 :127.0.0	1:510
Log: Cfg:					.:

Now proceed to start the service and then the connection.

Access to configuration is now available and one can complete any configuration options that are required.

# 6 Menu Options

The IfcControl application has following Menu options:

```
lfcConnect - lfcProcess - View - SslCert. Server/Client
```

Menu Option	Description	Notes
IfcConnect	Options for IfcControl handling	
lfcProcess	Options for IFC8 instance action	
View	Show About / Monitoring	
Ssl Cert. Server/Client	Set local certificate to use	Required for connections from IfcControl on remote PC

•

•

### **IfcConnect**

#### Available Options

Menu Option	Description	Notes
Start Connection	Start connection to marked Ifc8 instance	Available if connection is Stopped
Stop Connection	Stop connection to marked Ifc8 instance	Available if connection is Started
Start all Connections	Start connection to all listed	
Stop All Connections	Stop specific connection to marked Ifc8 instance	
Modify Connection	Modify connection settings	Change IP address, IP port Not available for listed lfc8.Net services Modification is only possible when lfcControl is NOT connected to this instance and lfc instance is not assigned to an lfcService instance
Add Connection	Add new Connection to	
Delete Connection	Remove Ifc8 Instance or service from IfcControl	
Hide Connection	Hide specific connection which shall not be displayed in this IfcControl instance	

ORACLE

Install as Service	Install a non-service Ifc8.Net instance as a service	Only available if service not already installed
Uninstall Service	Uninstall existing Service	Only available if service is installed
Add to Service	Add a non-Service lfc8.Net instance to existing lfc8.Net service	
Check for Update IfcService	Allow updating IfcService files to related sub folder	Only available when Service is stopped
Get Ifc8.Net (remote) services:	Add Service Configuration from remote Machine to	Only available for instances installed as service
Advanced Configuration	Access to Adv. Configuration sub-menu	See Adv. Configuration Sub- Menu description
Start Service	Start Ifc8.Net Service	Only available for instances installed as service
Stop Service	Stop Ifc8.Net Service	Only available for instances installed as service
Close	Close IfcControl	All connections will be stopped

#### NOTE:

The menu options display dynamically.

This means one will only be offered the menu options possible at any specific time.

This means:

Un-install service is only available if a Service is installed.

Start Connection is only available if the connection is stopped.

### Advanced Configuration Sub-Menu

Menu Option	Description	Notes
Create Certificate	Ability to create a self-signed Certificate	See Working with Certificates
Refresh Encryption	Refresh Encryption	Refresh the key used to secure the Passwords in the configuration.
Check Registry Access	Check User has necessary rights to access registry.	Needed for Security features.

### **IFC Process**

#### Available options

Menu Option	Description	Notes		
Re-init	Let Ifc8.Net reinitialize its` connections			
Configuration	Access the Ifc8.Net instance Configuration editor			
Enable / Disable Config Mode	Set/Release Ifc8.Net instance Config Mode	Dynamic menu option		
Disable Config Mode	Disable Ifc8.Net instance from Config Mode			
Simulation	Open Simulation form for this specific Ifc8.Net instance	Needs user authentication		
Database Swap	Start Database Resynchronization			

#### View

#### Available options

Menu Option	Description
Show Logbrowser	Enable or disable IfcLogBrowser view
Show IfcControl log	Enable or disable internal IfcControl log monitor
Show Hidden IfcConnects	Enable or disable display of hidden Ifc Connects
About	Company Application notes / Disclaimer

### SSL Cert. Server/Client

Option to allow connection between IfcControl and Ifc8.Net instances via valid SSL certificate only.

Would allow connection of IfcControl from remote PC.

Menu Option	Description	Notes
LOV Box 1	Chose Server certificate	Enter path of .crt certificate
LOV Box 2	Chose client certificate	Enter path of .pfx ertificate (requires password)

# 7 Working with IfcControl Form

### Understanding IfcControl Connections

To get information about the status of the IFC instance IfcControl must have a connection to the related Ifc instance.

This will be defined by adding the connection, enter the connection IP Address and the Port as of Ifc instance Configuration.

Start Connection to let IfcControl connect to the Ifc instance.

The LED's in the tree menu show the status of the Connection of IfcControl to Ifc instance respective, when Connection is established, also the link status of each Ifc instance defined.



#### **Ifc Control Connection status**

Icon Colour	Description	Notes
Grey	Not connected	Connection stopped
- Yellow	Awaiting connection	
Green	Connection established	

#### Ifc instance link status

Icon Colour	Description	Notes
Red	Not connected	LinkEnd mode
left Yellow	Awaiting connection	LinkStart mode
Orange	Not connected + Comm Async	Link End mode
Green	Link established	LinkAlive mode

Without IfcControl connection to the Ifc instance, no Ifc status information is available.

#### Ifc Service status

lcon	Description
•	Status Service started / running
•	Status Service stopped
н	Status Service paused

**NOTE**:

Even the Ifc Service is in status started / running it does not mean that the linked Ifc process is also started and running.

#### Status Examples

#### Example 1



When starting IfcControl tool all defined connections will be shown, but without current Ifc link status.

#### Example 2



The first Connection does not show any Ifc status information as IfcControl has not connected with this Ifc instance.

If cControl has connection to the other three instances, two of them are properly initialized with the vendor system, one has no connection with the vendor system.

#### Example 3



IfcControl has connection to all defined Ifc instances.

The first and the last lfc instance are not connected with the vendor, thus show the red and yellow link status.

The second and third lfc instance are properly connected with the vendor system and the PMS.

#### Example 4



IfcControl has connection to all defined Ifc instances.

All Ifc instances are properly connected with the vendor system and the PMS.

#### Connecting to an IFC Instance

#### Start Connection

To start to connect to a specific IFC8 instance select the IfcConnect Menu or right-click on the IP address of the connection and then select **Start Connection** 

At very first connection after creation of a connection authentication is required by entering the local Windows user (user of IFC PC) credentials.



Authenticate with local Windows user.

3 Authentication by Win user		×
User Name: Win Domain: Password:	user  	in

When connection to Ifc8 instance via defined port is successful then the Ifc8 monitoring will appear showing current communication and status

[] IfcControl[IfcControl] - V8.1 (Administrator)					- 0 )
fcConnect • IfcProcess • View • SsICert. Server/Clients			- )	-	
27.0.0.1.5101 (Service-M87-DEMO-HOTEL =)	🖉 lici 🖉 Pms 1 🖉 Pms	Main MessLvl3 v	→ <b>→ → → →</b>	DbAction Style: Debug v	MonitorRefre M87POS_SPH_Log X8
#c1     Pma1     Pma2     T27.0.1.5102 (Service-TLP-DEMO-HOTEL ■)	TimeStamp Li	Ifc1 M87PO5_SPH ↔ TCP_S+5009LOCAL nk:Alive Comm:Sync	Pms1 OPERA == TCP_C-SS01LOCAL Link:Alive Comm:Sync	Pms2 OPERA == TCP_C=5501LOCAL Link:Alive Comm:Sync	Main-V8.15.0.0(A) McCantrsl == TCP-5101LOCAL Link:Alive Comm: Sync
TLP - Timelox PMS Plus Doorlocking System - Asse fc1 - Pms1 - Pms1					apsed/31] Garbage collection done (memory usage 117-117MB)
Pms2	105.15/15:56:231				<pre><hesslvl3> [IfcMain.moStateTimer_El apsed/11] Garbage collection done (memory usage 117-117MB)</hesslvl3></pre>
	105.15/15:57:251				<pre><hesslvl3> [IfcMain.moStateTimer_El apsed/31] Garbage collection done (memory usage 117-117MB)</hesslvl3></pre>
c >	105.15/15:58:271				<messlv13></messlv13>

Also, on the left side in the connection tree following happens:

- 1. The Name of the Ifc8 instance will be shown
- 2. The IFC and PMS objects will be shown
- 3. The instance icon and the IFC object icons will be red, yellow or green colored depending on the Ifc8 instance link status.



#### Ifc instance link status

Icon Colour	Description	Notes
E Red	Not connected	LinkEnd mode
🦰 Yellow	Awaiting connection	LinkStart mode
🧏 Orange	Not connected + Comm Async	LinkEnd mode
📕 Green	Link established	LinkAlive mode

When the PMS and the vendor system are properly connected to IFC8 the status icons in IfcControl will become green and the monitoring status shows proper connection.

Connect • IfcProcess • View • SsICert. Server/Client	6		•				
127.0.0.1.5101 (Service-M87.DEMO-HOTEL = )     M87POS_SPH - Oracle MICROS Smphony - Oracle     fo1     Pma1     Pma2     Pma	Tc1 Prest Prest Main MessLv13 V -						
	TimeStamp	Ifcl TLP ↔ TCP_S-5001LOCAL Link:Alive Comm:Sync	Pms1 OPERA => TCP_C-5501LOCAL Link:Alive Comm:Sync	Pms2 OPERA +> TCP_C-5501LOCAL Link:Alive Comm:Sync	Main-V8.15. HcControl → TCP-5102LOCAL Link:Alive Comm: Sync		
TLP - Timelox PMS Plus Doorlocking System - Asso			[IfcObject.ChangeLinkSta te/51] Start-Alive				
Pms1 Pms2	105.15/16:08:441			er[1)1] <linkalive Date="220515" Time="160844" /&gt;</linkalive 			
	105.15/16:08:441			<messlv13> [IfcObject.ChangeLinkSta te/60] Start-Alive</messlv13>			
	105.15/16:08:441	<messlv13> [IfcObject.ChangeLinkSta te/60] Start-Alive</messlv13>					
	105.15/16:08:441	⇒[1(0] <linkalive Date="220515" Time="160844" /&gt;</linkalive 					

Remember that the status of the Ifc instance on the left side of the IfcControl form will only show when IfcControl relates to the Ifc8 instance it relates to.

The Ifc8 instance monitoring is always present, even IfcControl has no connection to the Ifc8 instance.

#### **Stopping Connection**

While the IfcControl has established connection to the IFC8 instance it is not possible to modify or delete a connection configuration.

In case of necessary changes first stop the connection with the instance.

For this select the lfcConnect menu or right-click on the connection to stop and then select **Stop Connection**.

**Stop Connection** only means that the Connection of IfcControl with the IFC8 instance will be stopped/closed. The IFC8 instance itself will remain in its connection status with PMS / vendor.

HcControl[IfcControl] - V8. (Administrator)	CONNECTION STOPPED!				- 🗆 X		
fcConnect + IfcProcess + 10				•			
127.0.0.1.5101 (Service MS7/DEMO:HOTEL +) M87POS SPH - Oracle MICROS Simphony - Oracle	🖓 🚺 🖓 Penal 🖓 Penal 🖉 Penal 🖉 Penal 🖉 Penal 🖉 Penal VI Style: Debug v 🕼 Monitor Refre (MS7POS_SPH_Log XML)						
27.0.0.1.5102 (Service-TLP-DEMO-HOTEL   ) TLP - Timelax PMS Plus Doorlocking System - Asso Vol	TimeStamp	Ifol METPOS_SPH ++ TCP_S+5009 LOCAL	Pms1 OPERA == TCP_C=S501LOCAL Link:Alive Comm:Sync	Pms2 OPERA == TCP_C=SS01LOCAL Link:Alive Comm:Sync	Main-V8.15 HcControl = TCP+5101LOCAL	•	
Pms2					closed by Client		
	105.15/16:11:551				CMessLv13> [ComMainServ.OnChangeCo mmState/29] (127.0.0.1:63251) Syno-Off		
	105.15/16:11:551				CMessLv13> [TopFoMaConnect.ClientRe coiveData/29] (127.0.0.1:63251) Thread "Top_FoServ_Clien tReceiveData [127.0.0.1:63251]" finished		

Loa(A2): CAFidelioUfc&NetUfcApplication\ FKT LOGO\M87UTC Loa.XML ID Monitems/0.02+0.00sec.) Cfc: CAFidelioUfc&NetUfcApplication\ FKT LOGO\M87UM87.xml

### Starting and Stopping Individual Interfaces

#### Starting Individual Interface

To start individual interfaces, mark the Interface and through the Ifc Connect menu select **StartUp IfcProcess** or right-click on the Interface and select **Start IfcProcess**.

Via Right Click

#### Via IfcConnect



#### Stopping Individual Interface

To stop individual interfaces, mark the Interface and via the IfcConnect menu select ShutDown IfcProcess or right-click on the Interface and select ShutDown IfcProcess.



# Starting and Stopping Individual Remote Interfaces

#### NOTE:

To execute this remotely the Connection must be secured by SSL (Secure Socket Layer).

#### Starting Individual Remote Interface

To stop individual interfaces, mark the Interface and via the IfcConnect menu select **ShutDown IfcProcess** or right-click on the Interface and select **ShutDown IfcProcess**.

#### Via IfcConnect

#### Via Right Click



#### Stopping Individual Remote Interface

To stop individual interfaces, mark the Interface and via the IfcConnect menu select **ShutDown IfcProcess** or right-click on the Interface and select **ShutDown IfcProcess**.



### **Starting and Stopping Services**

### **Starting Service**

To stop individual interfaces, mark the Interface and via the IfcConnect menu select ShutDown IfcProcess or right-click on the Interface and select ShutDown IfcProcess.

Via IfcConnect	Via Right Click menu
IfcControl[IfcControl] - V8. Administra     IfcConnect + IfcProcess + View + SslCert. Ser	er/Client: IfcControl[IfcControl] - V8.'. (Administrator) rer/Client: IfcConnect = IfcProcess = View = SslCert.Server/Client:
Stop Connection Start all Connections Nodify Connection Add Connection Delete Connection Hide Connection	v - Oracle m - Assz V - Oracle m - Assz M - Assz
Remove from Service Start Service	Check for update IfcService
Check for update IfcService Get IFC8.Net (remote) Services:	Get IFC8.Net (remote) Services:  Create certificate
Advanced Configuration	
Close Alt+X	
<	> < > 105.18/

### **Stopping Service**

To stop individual interfaces, mark the Interface and via the IfcConnect menu select ShutDown IfcProcess or right-click on the Interface and select ShutDown IfcProcess.



#### Starting Remote Service

To stop individual interfaces, mark the Interface and via the IfcConnect menu select **ShutDown IfcProcess** or right-click on the Interface and select **ShutDown IfcProcess**.

Via IfcConnect			Via Right Click menu
8 IfcControl[IfcControl] - V8.	dministrator)		B IfcControl[IfcControl] - V8. (Administrator)
IfcConnect + IfcProcess + View + S	ICert. Server/Client	C:\Fidelio\I	IfcConnect + IfcProcess + View + SsICert. Server/Client: C:\Fidelio\Ifc8.Net\IfcControl\
Stop Connection Start all Connections Stop all Connections Modify Connection Add Connection Delete Connection	nphorry - Oracle ) System - AssaA a-IFC8WF 9-IFC8WF	bloy 0 ■)	127.0.0.1:5101 (Service-M87 ●)         ●       M87POS_SPH - Oracle MICROS Simphony - Oracle         ●       127.0.0.1:5102 (Service-M87 ●)         ●       127.0.0.1:5102 (Service-M87 ●)         ●       127.0.0.1:5102 (Service-M87 ●)         ●       127.0.0.1:5102 (Service-M87 ●)         ●       NTLP - Timelox PMS Plus Doorlocking System - AssaAbloy         ●       wfivit      oracle com:5101 (Service-IFC8)         ●       ●       wfivit      oracle com:5102 (Service-IFC8)         ●       ●       ●       SIM - Internal IFC Simulation         ●       ●       SIM - Internal IFC Simulation         ●       ●       SIM - Internal IFC Simulation
Hide Connection Remove from Service Start Service Get IFC8.Net (remote) Services:	e-IFC8WFI	0 =)	Image: Simple state     Fig.1     Modify Connection       Image: Simple state     Modify Connection     Add Connection       Image: Simple state     Simple state     Delete Connection       Image: Simple state     Fig.1     Hide Connection
Advanced Configuration	-IFC8WF	IO =)	wf Jus.oracle.com:5104 (Service-II Remove from Service
Close Alt+X			GIM - Internal IFC Simulation     Start Service
Close			Get IFC8.Net (remote) Services:
			Create certificate
Log: \\wfivm05590.us.oracle.com\lfcl	.Net\FKT\SIM-POS	toSIM\LOG\SI	Log: \\wfivm05590.us.oracle.com\lfc8.Net\FKT\SIM-POStoSIM\LOG\SIM_Log.XML (28 M

#### NOTE:

The ability to Start / Stop a remote service is controlled by the Windows domain user rights. This must be allocated to the user who wishes to do this.

#### **Stopping Remote Service**

To stop individual interfaces, mark the Interface and via the IfcConnect menu select **ShutDown IfcProcess** or right-click on the Interface and select **ShutDown IfcProcess**.



### **IfcProcess Options**

Used to perform available action as per connected lfc8 instance.

To use IfcProcess options requires IfcControl connection to the specific Ifc8 instance.



If Process options are not available when If Control is not connected to the If cinstance.



The following are available options:

#### **Re-Init**

- 1. Select Re-Init option to disconnect IFC instance from current connections and perform internal initialization.
- 2. Use the Re-Init option to restart an Ifc8 instance without need to shut down the application or stopping the Ifc Service.

#### Configuration

- 1. Select **Configuration** option to access the **Configuration Editor** if the specific Ifc8 instance running either as Service or as application.
- 2. Access to the Configuration requires user authentication with local Windows user credentials.

### Enable Config Mode

- 1. Select **Enable Config mode** option to set the current Ifc8 instance into Configuration mode for longer configuration changes.
- 2. Config mode will disable any connections from or to Ifc8 instance.
- 3. Select **Disable Config mode** option to set current Ifc8 instance back to status to allow connections from and to Ifc8 instance.

#### Simulation

- 1. Select **Simulation** option to access the internal IFC8 simulation module.
- 2. Access to the **Simulation** module requires user authentication with local Windows user credentials.

#### Database Swap

- 1. Select **Database Swap** option to start a Data Resync process for the specific lfc8 instance.
- 2. Use this option to start a DataResync process for IfcService instances or for IfcApplications running on remote Server.

# IfcProcess and View Options on a Remote Machine

To execute IfcProcess Options on a Remote Machine.

The following pre-requisites must be fulfilled:

- 1. Win User with local admin rights to the remote Machine.
- 2. A secure SSL connection from the IfcControl to the Ifc8.Net Instance
- 3. The Remote Registry Service must be activated on the remote Machine

Services				- 0	×
File Action View	Help				
* *   🛅 🗒	a 🗟 🛛 📷 🕨 🖬 🖬 🕬				
Services (Local)	Services (Local)	-			
	Remote Registry	Name	Description Status	Startup	Type ^
		Remote Procedure Call (RPC) Locator	In Windows 2003 and earlier versions of Windows, the Remot	Manua	1
	Start the service	Remote Registry	Enables remote users to modify registry settings on this com	Autom	atic (T
		Retail Demo Service	The Retail Demo service controls device activity while the dev-	Manua	

### **Viewing Options**

Menu options to disable or enable the display of current IFC8 communication or to display hidden connections.

#### Showing LogBrowser

- 1. Enable or disable displaying the current IFC8 LogBrowser Monitoring.
- 2. Select the "View"- Menu and then select "Show LogBrowser".

lfcConnect - lfcProcess - V	iew 👻 SslCert. Server/Client:	
	<ul> <li>Show LogBrowser</li> </ul>	Alt+L
FIAS - Oracle Prop	Show IfcControl log	Alt+I
127.0.0.1:5114 (Servi	Show Hidden IfcConnects	Alt+H
E 127.0.0.1:5421 (Servi	About	
K XML_OPI - Oracle P	ayment Interface	

By default, the Ifc8.Net instance monitoring window is enabled once IfcControl has initial connection to the Ifc8.Net instance.

Unchecking the **Show LogBrowser** menu will either show no monitoring or the internal IfcControl log – when it is marked to display.

### Showing IfcControl log

- 1. Enable or disable displaying the internal IfcControl log.
- 2. Select the "View" Menu and then Select "Show IfcControl log.





NOTE:

This is only possible when **Show LogBrowser** option is unchecked. Unchecking the **Show IfcControl** log will show no monitoring.

#### Showing Hidden IfcConnects

Displays all IfcConnections marked as "hidden" for this IfcControl instance using the "Hide Connection" option.

This is the only way to change back a hidden connection to unhide.

Select the Show Hidden IfcConnects to display all hidden Ifc Connections in this IfcControl instance.

Hidden IfcConnects are displayed in light grey color.



Uncheck the **Hide Connection** option under IfcConnect or context menu of the marked hidden Ifc Connection to show the connect in the IfcControl panel list.

lfcConnect +	IfcProcess - View - SslCert. Server/Client:
□ <b></b>	
ē. <b>1</b>	Modify Connection
<b>1</b>	Add Connection
	Delete Connection
	Hide Connection
e <b>1</b>	Uninstall Service

Uncheck the Show Hidden IfcConnects to hide the IfcConnects marked as hidden.

#### About

The About option shows the legal Oracle disclaimer text for this version of IfcControl.

## 8 Creating Secure Connections (SSL Certificates)

It is possible to run IfcControl tool on a remote computer (not the IFC computer) within the customer network and manage IFC instances or IFC Services installed on the IFC computer from a different computer.

Connection is only possible using SSL certificates linked in the IFC configuration and in the IfcControl configuration.

IfcControl offers one the ability to create and implement self-signed certificates.

#### NOTE:

Oracle encourages the use of certificates signed by a Certified Authority.

Oracle does not accept any legal responsibility for the use of self-signed certificates, this lies with the customer. Accordingly, please verify the local legal requirements and obligations.

#### **Generating Certificates**

#### **IfcControl**

1. Create a Self-Signed Certificate by selecting Create Certificate from the Advanced Configuration Sub Menu.

Start Connection (TEL =)	Ici Pms1	Pms2 Main MessLvl3 V	→	DbAction Style: Debug ~	MonitorRefresh 🔽 🔒 TLP_Log 2	
Start all Connections Stop all Connections Modify Connection	IEL II System - Asso	TimeStamp	Ifc1 TLP == TCP_S-5001 LOCAL Link:Alive Comm:Sync	Pms1 OPERA == TCP_C-550110CAL Link:Alive Comm:Sync	Pms2 OPERA == TCP_C=5501L0CAL Link:Alive Comm: Symo	Main-V8.15. HcControl ↔ TCP=5102LOCAL
Add Connection Delete Connection Hide Connection		105.15/201281251				<pre>(MessLv13&gt; [IfcMain.moStateTimer_E] apaed/54] Garbage collection done (memory usage 120.120MB)</pre>
Uninstall Service Start Service Check for update IfcService Get IFC8.Net (remote) Services:		105.15/20:29:281				<pre>cMessLvl3&gt; [IfcMain.moStateTimer_E: apsed/54] Garbage collection done (memory usage 120-120MB)</pre>
Advanced Configuration	• Create	certificate Alt+T				ChessLv13>
Close Alt+X	Refresh Check r	encryption egistry access				apsed/54) Garbage collection done (memory usage 120-120MB)

Local computer user authentication is required.

8 Authentication b	by Win user on "K. ·DE" ×
User Name:	%Win User%
Win Domain:	%Win Domain%
Password:	%Password%
	Login

2. Enter password for the current local user logged in to the computer.

The Create Certificate form will open to define the certificate path and name, password, and certificate validity.

For an lfcConnect which did not have a connection with the lfc instance the default path is the lfcControl directory and a \* \* place holder name.

Certificate name:				
C:\Fidelio\lfc8.Net	\lfcApplication\_FKT_L	OGO\M87\lfc8.N	Vet-Cert(ITC)	
Password (min. len	gth 8, req. 1 upper & nu	meric & symbol ch	har.):	
Validăs (1 Escara)				
Validity (1-5 years):				
Validity (1-5 years):				
Validity (1-5 years):				
Validity (1-5 years): Subject Alternative	Name (SAN → DNS ve	enfication - option	al):	
Validity (1-5 years): Subject Alternative	Name (SAN $\rightarrow$ DNS ve	enfication - option	al):	
Validity (1-5 years): Subject Alternative	Name (SAN $\rightarrow$ DNS ve	enfication - option	al):	
Validity (1-5 years): Subject Alternative	Name (SAN $\rightarrow$ DNS ve	enfrication - option	al):	
Validity (1-5 years): Subject Alternative	Name (SAN $\rightarrow$ DNS ve	enfication - option	al):	01/

3. Adjust the directory and the certificate name as desired.

Do not take over the default certificate name.

It is not possible to create the certificate with the above default name containing the (\*).

- 4. Enter required password.
- 5. Enter required certificate validity (in years).

Create a new certificate	×
Certificate name: C:\Fidelio\lfc8.Net\lfcApplication\_FKT_LOGO\M87\lfc8.Net-Cert(ITC)	
Password (min. length 8, req. 1 upper & numeric & symbol char.):  •••••••••	
Validity (1-5 years):	
Subject Alternative Name (SAN → DNS verification - optional):	
Cancel	

6. Then click OK.

Certificates are generated and stored in the defined directory.

lfcContro	ol V8. Certificate created	×
1	FileInfo: C:\FIDELIO\\fc8.Net\FKT\1V8Live\11FIASMSC\Cert\lfc8.Net FIAS).pfx	-Cert(
	FileInfo: C:\FIDELIO\Ifc8.Net\FKT\1V8Live\11FIASMSC\Cert\Ifc8.Net FIAS).cer	-Cert(
		ок
FIDELIO > Ifc8.	Net > FKT > 1V8Live > 11FIASMSC > Cert	
^ [	Name I IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	

### Adding Certificate to the Local IfcControl

In IfcControl mark the related defined Ifc Connection and make sure the connection (and the Ifc Service) is stopped.

lfcConnect - IfcProcess - View - SsICert. Server/Clien	nt:	•
□···· 127.0.0.1:5000 (Service-HotelV8Live-11FIAS-MSC ■)	<mark>✓ lfc1 ✓ Pms1</mark> ✓ Main	□ → □ ← ☑ => ☑ <=
□ 127.0.0.1:5114 (Service-HotelV8Live-18XML_POS ■)	TimeStamp	Ifc1 FIAS ⇔ TCP=5011:LOC.

- 1. Mark the first check box on the IfcControl header (SslCert. Server/Client).
- 2. Select on the arrow to open the select file form.



3. Choose the desired .crt certificate which has been created and click OK.

lfcConnect + lfcProcess + View + SslCert. Server/Client	: C:\FIDELIO\Ifc8.Net\	lfcControl\lfc8.Net-Cert(FIAS).ce 🝷
127.0.0.1:5000 (Service-HotelV8Live-11FIAS-MSC  )	<mark>∕ lfc1 ∕ Pms1</mark> ∕	Main
□	TimeStamp	Ifc1 FIAS ⇔ TCP=5011:I
□		Link:End Comm

Certificate has now been linked to the Ifc connection Instance.

It is now optional to enter also the .pfx client certificate to gain mutual authentication – depending on the setup of mutual certificate in IFC instance configuration (client certificate)

- 4. Mark the second Pick Box on the IfcControl header (SslCert. Server/Client.
- 5. Select on the arrow to open the Select file form:

lfcConnect + lfcProcess + View +   SslCert. Server/Client	: C:\FIDELIO\lfc8.Net\	fcControl\lfc8.Net-Cert(FIAS).ce 👻	•
□	<mark>√ lfc1 √ Pms1</mark> √	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	MessLvl3 + Style: Debug 🗸 I
127.0.0.1:5114 (Service-HotelV8Live-18XML_POS =)	TimeStamp	Ifcl	Pms1
XML_POS-14 V8Live		FIAS ⇔ TCP=5011:LOCAL	SERV[11] ⇔ DBS=GlobalDbsConnec
127.0.0.1-5421 (Service-HotelV8I ive-21XML_OPL =)		Link:End Comm:Asyn	Link Start TCom

IfcConnect • IfcProcess • View •   SsICert. Server/Clie	nt: C:\FIDELIO\Ifc8	Net\lfcControl\lfc8.Net-Cert(FIAS).ce 🔹		•
□ 127.0.0.1:5000 (Service-HotelV8Live-11FIAS-MSC ■)	<mark>∕ lfc1 ∕ Pms</mark>	1 Main → · ← Ø => Ø <= DbAction - Mes	sLvl3	+ Style: Debug 🗹
127.0.0.1:5114 (Service-HotelV8Live-18XML_POS ■)	TimeStam	Select the Client certificat - Certificate files (*.pfx)	×	Pms1 I⇔DBS=GlobalDbsConnec
127.0.0.1:5421 (Service-HotelV8Live-21XML OPI =)		C:\FIDELIO\lfc8.Net\lfcControl\lfc8.Net-Cert(FIAS).pfx		Link:Start TCon
XML_OPI - Oracle Payment Interface		📄 🚊 FIDELIO	^	ave-nh carra ror nu
		i 8.14.11		→ IWKC_START >= '0!
T-28 IfcControl connect	[05.11.16:27:	🔬 🖶 🖂 8.14.9.0		
		📔 🖮 🗾 HTML		
	<u>[05.11.16:28</u> :	HTML8.14.11		3>[Parser_SERV.Iwko
		HIML8.14.3.1		. TWEC START N- 10
	LOE 11 16:20			A INNO_DIANI J= 0.
	103.11.10.23	Hick Net		ake-up calls for du
		AOM		+ IWKC START >= '0
	[05.11.16:29:			_
		i FKT		
		He- If cApplication		
	[05.11.16:30:	😥 🖳 🖅 IfcBusi		3>[Parser SERV.Iwko
				ake-up calls for du
		🗈 🖷 🦾 bin		→ IWKC_START >= '05
	[05.11.16:30:	certificates		
		fc8.Net-Cert(FIAS).ptx		
		He Service		
	[05.11.16:31:		4	3>[Parser_SERV.Iwk
		Password required:		ake-up calls for du
	105 11 16.01			+ INRO_DIARI >= 'U:
	105.11.16:31	OK Ca	ncei	

- 6. Enter the password generated for the certificate.
- 7. Click Enter.

When password is correct the certificate information will be displayed in red.

When password in incorrect related message will display.

8. Select OK to confirm the choice.

(Select Cancel to close without change.)



Second certificate has now been linked to the Ifc connection Instance.

9. Double-click on the defined Ifc Connection to see if certificate and password are valid for this connection.

If Ifc Connection is linked to a IfcService first start the Service.



In the MAIN log you can see the validation of the certificate being correct (or not).

Main-V8. IfcControl ∞ TCP=5000:LOCAL <mark>TLink:Alive TComm:Sync</mark>
MessLvl3>
TcpFoWsConnect.ClientReceiveData/221
(127.0.0.1:53640) TcpClient Connection
closed by Client
MagoTul3
CommMainSary OnChangeCommState/221
(127 0 0 1:52640) SuperOff
(127.0.0.1.00040) Sync-011
MessLV13>
[ICprowsConnect.ClientReceiveData/22]
127.0.0.1:53640)
hread "TCP_FoServ_ClientReceiveData
127.0.0.1:53640]" finished
MessLv13>[TcpFoWsConnect.Init/23]
SslStream authentication for Socket
(127.0.0.1:5000 → 127.0.0.1:53643) will be
ralidated
MessLvl3>
TcpFoWsConnect.SslStream ValidateClientCer
ificate/231 (127.0.0.1:53643) Certificate
validation done via
lientCertInfo="Ifc8.Net-Cert(FIAS).cer"
MessLv13>[TcpFoWsConnect.Init/23]
SalStream authentication done:
Cipher: Aes256 strength 256
Protocol: T1s12
Is authenticated as server: True
Is Encrypted: True
Certificate revocation checked: True
Local cert issued to "CN=Ifc8.Net-Cert
(FIAS)"(SelfSigned+UntrustedRoot). valid
ntil 8/21/2023
Remote cert issued to "CN=Ifc8.Net-Cert
(FIAS)"(SelfSigned+UntrustedRoot), valid
until 8/21/2023

Repeat the above on the remote IfcControl application.

### Adding a Certificate to IFC8.Net Instance

The \*.pfx certificate is added to the IFC8.Net configuration in the MAIN->COMM section.

ConfigXml Setup for FIAS -	Oracle Property Interface based on F	FIAS	- 0	
File • Options •				
onfig structure	Attributes		Selected attribute	
⊒- IFC8.Net	Name	Value	Name	
E-MAIN	CtrlCommPort	5131	ServerCertInfo	
-MON	ServerCentinfo		Current value	
SimAttrDef	MonConnidFormat	lp.Address		Ì
De PMS1			New value	
				ĺ
			Unde	
			Description	
			The server certificate file location for the SSL connection. "r/ft type is required, relative paths are supported. Left blank to disable Secure Socket Layer (SSL). Default: ""	

## 9 Installing IfcControl on Remote PC

Use the **Ifc8.Net** Install wizard and choose **Custom Setup** to only install the IfcControl tool.



Example where only IfcControl shall be installed.

Execute the installation and after finishing, close the wizard.

Start IfcControl.exe as administrator from out the IfcControl directory. It is recommended to create a shortcut which will start as administrator.

IfcControl executes.

IfcControl - V8. (Administrator)		- 0
Connect + IfcProcess + View + SslCert. Server/Client:	•	-
12200 115101 St fcControl connect		

It generates a default connection record you can now use.

### Configuring the Remote IfcControl

#### Requirement

Ensure you have created a valid network connection to the the local IFC PC.

Local IFC PC has windows share drive activated for the IFC Configuration and log paths. example folder

c:\fidelio\Ifc8.Net\Config\FKT1\
c:\fidelio\Ifc8.Net\Config\FKT2\
c:\fidelio\Ifc8.Net\Config\FKT3\

Folder Config has an active share.

📜 Conf	ig Proper	ties	
General	Sharing	Security	Previous
Netwo	ork File and	l Folder Sh	aring
	Config Shared	ł	
Netwo \\WF	ork Path: IVM02847	\Config	
SI	hare		

An active network share between IfcControl PC and IFC PC

(A pair of) certificates between IfcControl and local IFC8.Net instance

### Configuration

1. Execute IfcControl.exe

If cControl will open with a default connection to 127.0.0.1 Port 5101.

2. Select IfcConnect / Modify connection.



3. Enter the **IP Address** or **DNS name** and **Connection IP** port for the desired IFC instance on the host PC.



Final entry should look like this:



- 4. Add the certificates to this connection as shown above.
- 5. Copy both certificates to the remote PC and store them in a defined directory

Fidelio	> If	c8.Net > IfcControl > certificates				
	^	Name	~	Date modified	Туре	Size
		🔄 lfc8.Net-Cert(FIAS).crt		11.12.2019 10:13	Security Certificate	1 KB
		Ifc8.Net-Cert(FIAS).pfx		11.12.2019 10:13	Personal Informati	3 KB

T 12 If Control connect	Select the Se	erver certificate f	file		×	
	Look in:	certificates	~ ~	0 🖸 🗈 🗔-		
	-	Name	×	Date modified	Туре	
		Ifc8.Net-0	Cert(MBOESEL-LAP).pfx	11.12.2019 14:12	Personal I	
	Quick access	Ifc8.Net-0	Cert(MBOESEL-LAP).crt	11.12.2019 14:12	Security C	
		Ifc8.Net-C	Cert(IFC).pfx	08.01.2020 09:30	Personal I	
		Ifc8.Net-0	Cert(IFC).crt	08.01.2020 09:30	Security C	
	Desktop	Ifc8.Net-0	Cert(FIAS).pfx	20.01.2020 10:06	Personal I	
		Ifc8.Net-0	Cert(FIAS).crt	20.01.2020 10:06	Security C	
	Libraries					
	This PC					
		<			>	
		File name:	#c8.Net-Cert(FIAS).ort	~	Open	
	Network	Files of type:	Security Certificate files (" nfv." nt)	~	Cancel	
		They or type.			Curicu	



B-10.165.120.226.5411	Validate SSL certificate password		
	Enter the X509-Certificate	password:	
	••••••		
	Cancel	ок	

B IfcControl - V8. (Administrator)	- o x
IfcConnect + IfcProcess + View +   SslCert. Server/Client: C:\Fidelio\Ife	fc8.Net\/fcControl\certificates\/fc8.Net-C • C:\Fidelio\/fc8.Net\/fcControl\certificates\/fc8.Net-C •
B 10.165 120.226 5411	

6. Start the connection by double clicking the connection on the left menu.

IfcConnect + IfcProcess + View +	SslCert. Server/Client:	C:\Fidelio\lfc8.Net\lf	Control\certificates\lfc8.Net	-C • C	C:\Fidelio\lfc8.Net\lfcControl\certificates\lfc8.Net-C +	
B 10 1225.5411 28 FCControl connect	20 01 20 10.66 21 375 20 01 20 10.66 21 466 20 01 20 10.66 21 466 20 01 20 10.66 21 4676 20 01 20 10.66 21 672 20 01 20 10.66 21 672 20 01 20 10.66 21 672 20 01 20 10.56 22 374 20 01 20 10.56 22 374 20 01 20 10.56 22 384 20 01 20 10.56 22 384 20 01 20 10.56 22 384 20 01 20 10.56 22 784 20 01 20 10.56 22 784 20 01 20 10.56 22 784	Isin (10.165.102.) Software for some of the correct Isin Software for the correct Isin (10.165.102.2 Isin (10.165.102.2) Isin (10.165.102.2 Isin (10.165.102.2) Isin (10.165.1	25:5411/Comm status changed. to the values::10 165:120.2565 25:5411/Comm status changed. 25:5411/Comm status hanged. 26:5411/Comm status hanged. 26:5411/Com	Pot_Clos id11 Certificate Pot_Not, RequestL RequestL X	sed Post_Not_Connected 6 file) _Connected Post_Open Link Start / / To_Be_Processed / Link Start / / Received_Reply /	

When connection to the host PC is possible the user must authenticate connection once with the windows user and password of the host PC.

IU Rougest Link Start	
User Name:	user of IFC PC
Password:	•••••
	Login

In case the log file and config file are accessible (through providing a proper network connection / share) the remote IfcControl will display the current logfile browser and the link status of the interface instance (left side).

ia 127.0.0.1.5111	Ici Pent		DbAction - Messlul2 + Syle	Debug 🖸 MontorRefresh 🚽 Buttom
PRIST	TimeStamp	IPC1-FEAS- FAS = TOP-SOFILOCAL Link: End CommitAsyn	19651 SERV[11] = DBS-GlobalDeConnect Of cConnifort-555 9 Diskustert 7000000000	Main-VU.14. I(A) McCentrol = TCP-SIII.LOCAL TLLInk: All two CommitSynd
			FOR GUE! Results - INNC_START >= '08.25.14:53:00'	
	108.25/14:54:541			<pre>cMessLvl3&gt; [fdMain.moStateTimer_Elapsed/ l2] Garbage collection done (memory usage 126-12400)</pre>
	108.25/14:57:001		<pre>cMessIv13&gt; [Parser_SERV.IwkoChk/14] Check stored wake-up calls for dus: Results = INNC_START &gt;= '00.35.14154:00'</pre>	
	108.23/14157:591			<pre>dMesslv13&gt; [IfcMain.moStateTimer_Elapsed/ 14] Garbage collection done (memory usage 127-1278B)</pre>
	101.25/14151:001		Olesslv135 (Parser_SERV.1wkoChk/12) Check stored wake-up calls for due:	

Log: C//Fidelio/I/cl.Net/FKT/11FIASMSC/FIAS\_Log.XML (1 Monitemu/0,01+0,02sec.) Cfg: C//Fidelio/I/cl.Net/FKT/11FIASMSC/FIASMSC11.Xml

# 10 Multiple IfcControl Instances

It is possible to install multiple IfcControl instances on the same PC.

When the customer wants to run multiple interfaces of multiple properties on one PC it might be useful to separate the interface instances in separate IfcControl applications as to have better overview.

To create another lfcControl instance there are two options:

### **Multiple IfcControl Directories**

Copy the whole \lfcControl directory with its containing files and give it a different name – for example the Property Name or code.

FIDELIO > Ifc8.Net > IfcControl			
Name ^	Date modified	Туре	Size
Hotel1	27.01.2020 10:45	File folder	
Hotel2	27.01.2020 10:44	File folder	
8 IfcControl.exe	04.03.2020 21:31	Application	1.922 KB
IfcControl.exe.config	13.02.2020 14:44	CONFIG File	1 KB
IfcControl.xml	04.03.2020 14:57	XML Document	5 KB
IfcSuite8Wrapper.dll	04.03.2020 21:32	Application exten	36 KB
InstallUtil.InstallLog	19.02.2020 09:48	INSTALLLOG File	2 KB
Interop.FidelioDatabase.dll	04.03.2020 21:32	Application exten	23 KB
lnterop.fidelioerror.dll	04.03.2020 21:33	Application exten	12 KB
Interop.fidelioGlobalStatus.dll	04.03.2020 21:33	Application exten	44 KB
Interop.FideliolfcAction.dll	04.03.2020 21:33	Application exten	14 KB
Interop.fidelioMisc.dll	04.03.2020 21:33	Application exten	17 KB
Interop.FidelioPostings.dll	04.03.2020 21:33	Application exten	25 KB

In IfcControl application header will display the folder name so one can differentiate between the applications.



### Multiple IfcControl Configuration Files

- 1. Create multiple lfcControl configuration files (lfcControl.xml) and name them as per property or chain.
- 2. Configure them separately only with the desired IFC Connections.
- 3. Use the Hide Connection option for not displaying IfcService connection for other properties or chains.

> FIDELIO > Ifc8.Net > IfcControl
Name ^
📙 bin
certificates
🗹 🕋 Hotel-OPERAV5.xml
Hotel-SIM.xml
🗹 🔮 Hotel-Trunk.xml
Hotel-V8Live.xml
<b>⊻8</b> IfcControl.exe
lfcControl.exe.config
🖹 lfcControl.xml

4. Start the related IfcControl instance as per Shortcut linked with the related Configuration file.

8 IfcControl-Hotel V8Live Properties				>	
Security Deta		tails	Pre	vious Versions	
General	Shortcut	Compati	bility	Encryptic	n
۳ <mark>8 ۲</mark>	cControl-Hotel	V8Live			
Target type:	Application				
Target location	: IfcControl				
Target:	C:\FIDELIO	C:\FIDELIO\lfc8.Net\lfcControl\Hotel-V8Live.xml			
Start in:	C:\FIDELIO	\lfc8.Net\lfc	:Control		- ]
Shortcut key:	None				
Run:	Normal wind	low		~	
Comment:					]
Open File L	ocation	Change Ico	n	Advanced	