Oracle[®] Hospitality Property Interfaces IfcBusi.Net.dll Installation and Configuration Guide

Release 8.14.12.1 and above Part Number F48205-01

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Preface

Audience

This document is intended for Oracle employees, Oracle Partners installing and supporting Hotel Property Interface application IFC8 with Suite8 Property Management System.

Customer Support

To contact Oracle Customer Support, access My Oracle Support at the following URL: https://support.oracle.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 and any associated log files
- Screenshots of each step you take
- FULL contact details including email address

Documentation

Oracle Hospitality product documentation is available on the Oracle Help Center at http://docs.oracle.com/en/industries/hospitality/

Revision History

Date	Description of Change
April 2019	Initial publication
March 2020	• Adjusted Screenshots of current version 8.14.4.1
July 2020	Version 8.14.7.0Added IfcBusi.NET SSL configuration
October 2020	Version 8.14.8.0Added Import of certificate from Cert Store
August 2021	Review for Publication to General Public
September 2021	• Review for 8.14.12.1

1 General

IfcBusi.dll is the dynamic library used by **Suite8 PMS** to communicate with each IFC8 instance. It is used to send out actions from the Suite8 PMS client workstation to IFC8 such as check-in/checkout notification, Key Requests, Credit card requests. Therefore, it is required to have IfcBusi.dll installed on all Suite8 PMS client workstations that perform check-in / out or any other action that requires IFC8 Interfaces. As of the IFC8.14.0.0 release, a re-written IfcBusi.Net.dll is being introduced. It contains the same functionality as the older version but is re-written.

Installation of IfcBusi.Net.dll will be done via the IFC8.14.x Install wizard. It is required to install .NET Framework 4 x on the PC where IfcBusi.Net.dll will be installed.

Note: For connections with Opera PMS the installation of IFCBusi.Net.dll on the Opera Workstations is NOT necessary!!

2 Install IfcBusi.Net.dll on the Suite8 Client Workstation

- **1.** Download the IFC8.14.12.x (or higher) Install Wizard and store it on the Suite8 Client PC.
- **2.** Right-click and execute Ifc8setup.exe as administrator (FULL Local Admin rights are required)

Name		*
8 Ifc8Setu	0	Open Run as administrator

The Installer starts.





- 3. Click Next.
- **4.** Choose the path where to install IfcBusi.Net.dll (default & recommended is C:\Fidelio\ifc8.Net\)

🛃 Oracle H	lospitality Property Interface V8.14.	- Install V	Vizard	×
Destinati Click Nex	ion Folder kt to install to this folder, or click Chang	ge to install to	a different folder	
Ø	Install Orade Hospitality Property Int C:\Fidelio\Ifc8.Net\	terface to:		Change
InstallShield -				
	<	Back	Next >	Cancel

5. Select Next.



6. Choose **Custom** Setup type and select Next.

All setup options are displayed.

🛃 Oracle Hospitality Property Interface V8.14.	Install Wizard X
Custom Setup Select the program features you want installed.	
Click on an icon in the list below to change how a feat IfcApplication IfcControl IfcBusi IfcLogBrowser IfcService	This feature requires 3872KB on your hard drive.
Install to: C:\Fidelio\Ifc8.Net\IfcApplication\ InstallShield	Change
Help Space < B	ack Next > Cancel

As only the IfcBusi.Net.dll is needed to be installed on the Suite8 Client Workstations select the LOV icon of "IfcApplication" and select the option pointer.

X This feature will not be available.

/ Oracl	le Hospitality Property Interface V8.14.	Install Wizard	×
Custon Select	n Setup the program features you want installed.		
Click on	an icon in the list below to change how a fea	ature is installed. Feature Descript	tion
	This feature will be installed on lo This feature, and all subfeatures,	ocal hard drive. will be installed on local ha	ard drive.
I	1 This feature will be installed whe	n required.	
	X This feature will not be available.		
Install to			Change
Instalishie	Help Space < E	ack Next >	Cancel

7. Repeat this step for the other modules which should not be installed.

😾 Oracle Hospitality	Property Interface	e V8.14, - Insta	II Wizard	×
Custom Setup	isahirar unu want i	octalled		- Con
Select the program t	eatures you want i	nstalleo.	Contraction of the	
Click on an icon in the list below to change how a fee X • IfcApplication X • IfcControl • IfcBurs X • IfcLogBrowser X • IfcService			Feature Description Installation of IfcBusi.NET This feature requires 15240 your hard drive.	
Install to: C:\Fidello\Ifc8.Net\Ifc8 InstallShield	kusi/			Change
Help	Space	< Back	Next >	Cancel

8. Select Next.

🔀 Oracle Hospitality Property Interface V8.14.	- Install Wizard	×
Ready to Install the Program		
The wizard is ready to begin installation.		
Click Install to begin the installation.		
If you want to review or change any of your ins exit the wizard.	stallation settings, click Ba	ack. Click Cancel to
InstallShield		
<	Back Install	Cancel

9. Select **Install** to confirm the installation.

The installation will commence.

The Installation Wizard form will show that the installation of IfcBusi.Net.dll is completed.



10. Select **Finish** to close the installer.

Files are installed in the defined path:

> System (C:) > FIDELIO > Ifc8.Net > IfcBusi					
Name ^	Date modified	Туре	Size		
🚳 lfcBusi.Net.dll	10.03.2020 08:22	Application exten	1.331 KB		
📄 lfcBusi.Net.tlb	10.03.2020 15:20	TLB File	5 KB		
IfcSuite8Wrapper.dll	10.03.2020 08:23	Application exten	36 KB		
🚳 Interop.FidelioDatabase.dll	10.03.2020 08:23	Application exten	23 KB		
Interop.fidelioerror.dll	10.03.2020 08:23	Application exten	12 KB		
🔲 🗟 Interop.fidelioGlobalStatus.dll	10.03.2020 08:23	Application exten	44 KB		
Interop.FideliolfcAction.dll	10.03.2020 08:23	Application exten	14 KB		
Interop.fidelioMisc.dll	10.03.2020 08:23	Application exten	17 KB		
Interop.FidelioPostings.dll	10.03.2020 08:23	Application exten	25 KB		

Note: IfcBusi.Net.dll uses its own set of DLL's which will be installed and located on the same path where IfcBusi.Net.dll is located.

- IfcSuite8Wrapper.dll

- a set of Interop. fidelio....dll

These dlls will communicate with the Fidelio dlls located in the programs folder of the PMS client.

These dlls do not need to be registered.

3 Register lfcBusi.Net.dll

After installation through the Ifc8 installer, the IfcBusi.Net.dll is already registered so Suite8 PMS will recognize the dll.

If for some reason you need to manually register the dll either use a batch or execute a manual command via the CMD Prompt as administrator.

Note: The registration must take place from the path where the IfcBusi.Net.dll is located.

A batch command could look like this:

C: cd C:\fidelio\ifc8.Net\IfcBusi "C:\Windows\Microsoft.NET\Framework\v4.0.30319\RegAsm.exe" /codebase /tlb IfcBusi.Net.dll

4 Suite8 PMS Configuration

The new IfcBusi.Net.dll is supported as of Suite8 PMS version 8.14.0.0 or higher. Suite8 PMS Version 8.14.0.x also supports older IfcBusi.dll versions. This ensures compatibility of the older IFC8 version with Suite8.14.0.0 version and higher. For this Suite8 PMS must be configured to either support old IfcBusi.dll or the new IfcBusi.Net.dll.

A new configuration parameter has been added in Configuration > Global Settings > Interfaces > 1 Interfaces (IFC8).

Under General settings tick the "Use IfcBusi.Net.dll" tick box to activate using the IfcBusi.Net.dll instead of old IfcBusi.dll.

interface (IFC8) <u>1</u> Interface (IFC8) <u>2</u>	Misc. Interface <u>3</u> Misc. Interface			
Configuration of Interface Users	٢			
Credit Card Interface	0			
General Settings				
Perform IfcBusi.dll check on V8 startup				
Show wakeup response				
Disable logging of interface action	IS			
Do not notify global setting change	jes to IFC			
🔲 Interface login backward compatib	bility			
Use IfcBusi Net.dl				

☑ Use IfcBusi.Net.dl

Save the changes, close the Configuration and restart the Suite8 client on all workstations.

5 IfcBusi.Net.dll sys Tray Icon

Suite8 client will load an instance of installed IfcBusi.Net.dll upon login of Suite8 user. The IfcBusi.Net.dll instance will load a sys tray icon which is used to display its status to the user.

IfcBusi Notifications:

Upon IfcBusi.Net instance initializing (at time Suite8 PMS clients does start) it will display notifications the user should not always ignore.









Tip:

To always see such notifications related to Suite8 PMS IfcBusi.Net ensure the Windows 10 Focus Assist option is set to "OFF"

Settings	X
බ Home	Focus assist
Find a setting	Choose which notification you'd like to see and hear so you can stay focused. The rest will go straight to action center where you can see them any time.
🖵 Display	 Off Get all notifications from your apps and contacts.
40) Sound	Priority only See only selected notifications from the priority list. The rest will go straight to action center.
Notifications & actions	Customize your priority list
J Focus assist	O Alarms only Hide all notifications, except for alarms.
() Power & sleep	Automatic rules
🖾 Battery	Choose the times and activities when you don't want to be disturbed, and focus assist will turn on automatically.
📼 Storage	During these times 23:00 - 07:00: Priority only Off
Tablet mode	When I'm duplicating my display
H Multitasking	Alarms only
Projecting to this PC	When I'm playing a game Off Priority only Off
X Shared experiences	When I'm using an app in full screen mode Off
🛱 Clipboard	Alarms only
	Snow me a summary or what I missed while focus assist was on

Or in the case that Focus assist shall be set to specific applications (Priority only) the Suite8 application is added to the priority list of applications:



IfcBusi Status Information

The IfcBusi sys tray icon will display the version, the Parser loaded by IFC8, and the communication status with the IFC8 instance when you move the mouse over the icon.



The sys tray icon will be displayed in various colors to show the current status of the Interface instance.

Icon Colour	Description	Notes
Green Communication to IFC8 and with the		
	vendor is established	
<mark>Yellow</mark>	Communication Suite8 client to IFC8	Check communication Suite8
	not established or vendor system not	client/ IfcBusi able to connect
	connected. (not LinkAlive)	to IFC8 instance (network)
		Check Ifc8 instance started
		Check vendor able to connect
		to IFC8 instance

The IfcBusi sys tray icon also has a context menu for some optional settings. Right-click on the sys tray icon to open the context menu.



Available Menu options:

Menu Option	Description
Configuration	Opens the Logfile options
Show Log	Opens the IfcBusi Log Monitoring

Menu Option: Configuration

To use:

- to enable or disable logging IfcBusi communication (3 levels available),
- to disable IfcBusi Icon Balloon Info popping up,
- to disable the Internal printer setup check-in Database.
- to save the current set configuration (of the above options).



IfcBusi Icon Context menu Options:

Menu option	Description	Notes
Logging disabled	No IfcBusi log will be created	
	(default)	
Logging enabled (Lvl 1)	IfcBusi log will be created	
	with log level 1	
Logging enabled (Lvl 2)	IfcBusi log will be created	
	with log level 2	
Logging enabled (Lvl 3)	IfcBusi log will be created	
	with log level 3	
Log. Disabled after 1 h	Time after IfcBusi logging	
Log. Disabled after 3 h	will automatically be	
Log. Disabled after 6 h	disabled	
Log. Disabled after 12 h		
Log. Disabled after 24 h		
No Balloon Info	Disables balloon info on Busi	
	icon	
No IPRN Config	Disables Printer setup check	Set only when issues
	on Busi start	with IfcBusi loading
		slowly and no printing
		necessary for this
		interface
Use log. Settings for all WS	Define logging settings for all	
	Workstations IfcBusi.Net.dll	
	is installed	
Save Configuration	Save the chosen	At the next start of
	configuration	IfcBusi, the settings will
		be used again

To set the above values do the following steps:

- 1. Choose the Logging enabled value (Lvl1, 2, or 3)
- 2. Access the Config again
- 3. Choose the Log Disabled after... time
- 4. Access the Config again
- 5. Select the Save configuration option

If the Logging shall be enabled for IfcBusi.Net.dll instances on all Suite8 client workstations select the "Use log. Settings for all WS".

The above configuration will be stored in the Database and all IfcBusi.Net.dll instances will read the values after the next restart of the Suite8 client.

Menu Option: Show Log

Selecting this menu option will load the IfcBusi Log Monitoring based on the chosen Log Level of the Menu Option: Configuration

💀 lfcBusi.Net - Monitorin	ng				×
Close			Mc	onitoring expiration: 01.10.2020 12:	28:14
V Ifc21 V Pms2 V Main	$\overline{\mathbf{v}} \to \overline{\mathbf{v}} \leftarrow \overline{\mathbf{v}} \Rightarrow \overline{\mathbf{v}} \leftarrow \overline{\mathbf{DbA}}$	ction _ MessLvl3 + □ Style: Debug 🔽 MonitorRe	fresh 🔽 <u>Bottom</u>	fcBusi_PMS_MBOESEL-LAP[D	S][21]
TimeStamp	Ifc21 McBusi⇔TCP_C=5501:10.175.40.236 Link:Alive <mark>Comm:Sync</mark>	Pms21 IfcBusi⇔COMM_DBS=Unknown:Unknown Link:Alive Comm:Sync	lfcC	Main ontrol ⇔ TCP=Unknown	^
109.30.12:27:451			<messlv12> [IfcBusiMain.] /1] (21) Moni</messlv12>	MnuLogLevel_CheckedChanged toring turned off by user	1
109.30.12:27:451			<messlv13> [MonitoringHa MonitoringOut will be stopp</messlv13>	ndler.StopMonitoring/1] putXMLfile → monitoring ed	
109.30.12:27:451	Monitoring stopped	Monitoring stopped	Moi	nitoring stopped	
109.30.12:27:511	Monitoring started	Monitoring started	Mor	nitoring started	
109.30.12:27:511			<messlvl2> [MonitoringHa MonitoringOut</messlvl2>	ndler.StartMonitoring/1] putXMLfile → done	
<u>[09.30.12:28:00]</u>		<pre><messlvl3> [CommDbsBusi.SetIdrvBusiFeatures/1] (21) IDRV_FEATURES==""</messlvl3></pre>			
<u>[09.30.12:28:19]</u>		<messlvl3> [CommDbsBusi.SetIdrvBusiFeatures/1] (21) IDRV_FEATURES==""</messlvl3>			
<u>109.30.12:28:491</u> ←[1 Tim	↑] <linkalive <br="" date="200930">we="122849" />◆</linkalive>				~

The right hand of the Monitoring header displays the time when current monitoring will expire and monitoring will be disabled again

The IfcBusi.Net.dll monitoring displays the communication with the IFC8 instance and also the messages from and to Suite8 client

- The Ifc column logs the XML messages to IFC8.
- The **Pms** column displays the Database actions when the **DbAction** filter flag is activated
- The Main column logs the PMS events and data transmitted to IfcBusi for execution.

Close			Monitoring expiration: 30.09.2020 15:0
2 Hell 2 Pent 2	P - P - P - P - P - P Co P Differion - Messivi? + F Skyle Debug F	Nontorfletresh 97 John Tokus [11]ani	
TimoStamp	Efell Robert TCP College Jone Link All Ver Commission	Pers 11 Robus - COVM DDS-robusters Dranger Link Allive Creek Symp	Ma La Mi Cavitur et TCP-Usitaten
129,30,14024111 (29,30,4402411) (29,30,4402411) (29,30,440411) (29,30,440411) (29,30,440411) (29,30,440411) (29,30,440411) (29,30,440411) (29,30,440411) (29,30,440411) (29,30,440411) (29,30,440411) (29,30,440411) (29,30,440411) (29,30,440411) (29,30,440411)		Calendarian evoj();"Telect 1960,", 1901,000,1070 Film 1960, 190 Televine evoj();"Telect 1960,", 1901,000,1070 Film 1960, 190 Televine evoj(); Televine evoj 1070 JD 400 (100, 100 0 100 (100, 100) 100,1021,TET-Televine AD 100,101,101 (100,100 0 100 (100, 100) 100,1021,TET-Televine AD 100,102,101 (100,100) 100,1021,TET-Televine AD 100,102,100 (100,100) 100,1021,TET-Televine AD 100,102,100 (100,100) 100,1021,TET-Televine AD 100,102,100 (100,100) 100,1021,TET-Televine AD 100,100,100 (100,100) 100,100,100,100,100,100 (100,100,100) 100,100,100,100,100,100 (100,100,100) 100,100,100,100,100,100,100,100,100,100	<pre>GMestGuip[Influenzibles.neuroder/1] [1] Pefferle dose = True GMestGuip[Influenzibles.neuroder/1] [1] Defferle dose = True GMestGuip[Influenzibles.neur</pre>
103.30.14:06:131		(DEAction) Read2(0).INHU_EXT_NUN-"\$15"	
109.20.14:04:191		<pre><lpre>cleartion> HeadQ[0].1985_EXT_TYPE-"#"</lpre></pre>	
102.20.1420411F1		<pre>cthAstion> HeadQ(0).1885_13+"2038"</pre>	
103.20.14:06:191		(DEAction) Read([0])1000_AL_COD+"5"	
109.20.14(04(19)		kleAction> Resd(1).1885_AL_HL+"S"	
122.20.14126(12)		KIRANISON> Read(11.1225_AL_DED=*5*	
109.20.14:06:191		clidetion> Resd((),1905_AL_NEx*5*	
(09.30.14:0E:19)		clbAction> Read(0).1800_AL_TV="5"	
109.20.141041191		(CBAction> ReedO(0).IABD_AL_VR-*5*	
109.30.141041191		(20902700) Bee00101-1950 82 000+.0.	
129.20.14:06:191		REDAction> Read(0):INH ST_DEC*'0"	
109.30.141061131		ClmAntiney ReadQ[0], 1808_ST_HL="0"	
109.20.141061191		(DeActions ReedQ(0),INDE_SI_NE*"S"	
109.10.14:04:191		(Station) Read((0),2225_82_70**0*	
109.10.141041191		<pre>CDLACTLOAD Read2(0).INHI_DI 'N**"5"</pre>	
109.30.141041191 109.30.141041191	- (1/7) «DusstdataChange Date-"200900" fine-"240617" GuastBus-"949" Roombus-"415" Dusstfirstname-"Carol" Goarlanguage"0" RosetBuse-"Bennett" GuastBarellage"0" GuastBarguage"0" HDBas-"BBCSEL- 101" wellag-tachtens Description Descriptions (0" /04	<traction's newtres(0)<="" td=""><td></td></traction's>	
	and a summer of the second sec		Characterization (Contraction Contraction) (11) Constitute Characterization - Terra
109.30.741041141			The second s
109.30.141041191	-111#1 stickhing Barashindston Timeshidston /ie		(and an and a supervised and a supervised of a supervised and a supervised of the su

6 IfcBusi Log

Ifc Busi Log Location

Define the path where the IfcBusi log file shall be stored on the client PC in **Suite8** > **Configuration** > **Global Settings** > **Miscellaneous** > **Workstation 4** tab.

8 Miscellaneous - V8RC 8.14 De	emo Version			
Search Te <u>x</u> t	Searc <u>h</u>	Miscellaneous Search Screens 1 Travel A	gent Proc 2 Visual Appearance 3 Workstation 1	
CRM Goods Settings Accounts Receivable Billing CCM CCM Country Specifics Generic Interfaces Monte Sincus Noth Audit Proville	ŕ	V8 Log Directories Default log directory Local log directory Mailing documents	Please make sure just to select a path on the local machine hard drive for the log directories Citemp Citemp Citemp	?

Note: The path is valid for all Client PCs.

For IfcBusi.NET a subfolder \IfcBusiNet will be automatically created.

Example: C:\temp\IfcBusiNet

Within this subfolder, another folder will be created as per the linked Interface instance number (ICFG_ID).

► Computer ► S	System (C:)	▶ temp	 IfcBusiNet 	•	
ew Tools He	lp				
Include in librar	y 🔻 Sh	are with 🔻	Burn	New folder	
(C:)	^ Name			^	
icates	1 2				
rs	6				
.10	1				
ub	10				
COS	18				

In this folder, the log files will be created and stored.

A		-	e:
Name	Date modified	Type	Size
IfcBusi_PMS_MBOESEL-PC[DS][8].bak	31.01.2019 10:38	BAK File	239 KB
IfcBusi_PMS_MBOESEL-PC[DS][8].evt	31.01.2019 10:41	Classic Event Log	271 KB
IfcBusi_PMS_MBOESEL-PC[DS][8].xml	22.01.2019 14:51	XML File	1 KB
IfcBusi_PMS_MBOESEL-PC[DS][8].xsl	07.12.2018 08:38	XSL Stylesheet	74 KB
IfcBusi_PMS_MBOESEL-PC[DS][8]_07_11.26.evt	07.12.2018 08:38	Classic Event Log	1 KB
IfcBusi_PMS_MBOESEL-PC[DS][8]_07_15.30.evt	07.12.2018 11:26	Classic Event Log	1.954 KB
IfcBusi_PMS_MBOESEL-PC[DS][8]_08_00.00.evt	07.12.2018 15:30	Classic Event Log	1.954 KB
IfcBusi_PMS_MBOESEL-PC[DS][8]_08_11.00.evt	08.12.2018 00:00	Classic Event Log	1.510 KB

Current Log file:	IfcBusi_PMS_PCNAME[DS][IFCnumber].evt
Backup log file:	IfcBusi_PMS_PCNAME[DS][IFCnumber]. bak
	will be opened together with current .evt log file
Old log file:	<pre>IfcBusi_PMS_PCNAME[DS][IFCnumber]_DD_HH_MM.evt</pre>
Log file Style sheet:	IfcBusi_PMS_PCNAME[DS][IFCnumber].xsl
Monitoring config file:	IfcBusi_PMS_PCNAME[DS][Ifcnumber].xml

Only **.evt** Log files can be opened using the IfcLogBrowser.exe which can be installed via the IFC8 installer.

IfcBusi Log Encryption Status

The IfcBusi.Net monitoring header shows if the connection uses **parser encryption** or **TCP SSL encryption** with the Ifc8.Net instance.

The Link Status LED displays an umbrella character () to indicate internal parser encryption (internal AuthKey) between IFC8.Net and IfcBusi.Net. No SSL Connection.

	orareenora			
lfcBusi.Net - Monitori	ing			
Close				
✓ Ifc21 ✓ Pms2 ✓	Main □ → □ ← □ → □ <= □ DbAction	- MessLvl4 + Style: Debug T MonitorRefres	h 🔽 Bottom	
TimeStamp	IfcBusi ↔ TCP_C=5501:10 122 TLink:Alive Comm:Sync	gcommunication Pms21 IfeBusi => COMM_DBS-Unknown: Unknown Link: Alive Comm: Sync	Main IfcControl ⇔ TCP=Unknown	^
]			Sync	
108.12.12:12:101			<messlvl2>[IfcBusiMain.GetVersion/1] → 8.14.7.1</messlvl2>	
108.12.12:12:101	<messlvl2>[IfcBusiMain.StartIfcComm/1] (21) StartIfcComm: "21 OPI Local" - state sync after CommAllow</messlvl2>			
108.12.12:12:101	<messlvl2>[IfcBusiMain.Connect/1] (21) StartIfcComm done: "21 OPI Local</messlvl2>			
108.12.12:12:101		<messlv14>[CommDbsBusi.GetIsch/1] (21) Started</messlv14>		
108.12.12:12:111		<messlv14>[CommDbsBusi.GetIsch/1] (21) Done</messlv14>		
108.12.12:12:111	<pre><messlv12> [IfcBusiMain.moParse_ChangedLinkState/1] (21) Started - State: Alive - Start</messlv12></pre>			
108.12.12:12:111	<pre><messlvl2> [IfcBusiMain.moParse_ChangedLinkState/1] (21) Done</messlvl2></pre>			
108.12.12:12:111	<pre><messlv12> [IfcBusiMain.moParse_ChangedLinkState/1] (21) Started - State: Start - Alive</messlv12></pre>			
108.12.12:12:111	<messlv14> [IfcBusiMain.moParse_ChangedSchema/1] (21) Started</messlv14>			
108.12.12:12:111	<pre><messlv12> [IfcBusiMain.moParse_ChangedSchema/1] (21) Done</messlv12></pre>			
108.12.12:12:111	<pre><messlv12> [IfcBusiMain.moParse_ChangedLinkState/1] (21) Done</messlv12></pre>			
108.12.12:12:11			<messlvl2>[IfcBusiMain.GetVersion/1] - 8.14.7.1</messlvl2>	
[08.12.12:12:11]			<messlv12>[IfcBusiMain.Connect/1] (21)</messlv12>	

The Comm Status LED displays an umbrella character () to indicate TCP SSL communication between IFC8.Net and IfcBusi.Net. No parser encryption is active.

IfcBusi.Net - Monitoring				- 1
Close				- 1
V Ifc21 V Pms2 V Main	□ → □ ← □ → □ <= □ DbAction	- MessLvi4 + Style: Debug T MonitorRefres	h 🔽 Bottom IfcBusi_].xn
TimeStamp	Ifc21 McBusi⇔TCP_C=5501:10 122 Link:Alive TCoum:Sync	Pms21 IfcBusi⇔ COMM_DBS=Unknown:Unknown Link:Alive Comm:Sync	Main IfcControl ⇔ TCP=Unknown	^
108.12.14:03:131			<pre><messlvl4>[IfcBusiMain.ActionGetName/1] (21) Started</messlvl4></pre>	
108.12.14:03:131			<pre><messlvl2>[IfcBusiMain.ActionGetName/1] (21) Done - True / CpAuthor</messlvl2></pre>	
108.12.14:03:131			<messlv14>[IfcBusiMain.ActionGetName/1] (21) Started</messlv14>	
108.12.14:03:131			<pre><messlvl2>[IfcBusiMain.ActionGetName/1] (21) Done → True / CpSettl</messlvl2></pre>	
108.12.14:03:131			<messlvl4>[IfcBusiMain.ActionGetName/1] (21) Started</messlvl4>	
108.12.14:03:131			<pre><messlvl2>[IfcBusiMain.ActionGetName/1] (21) Done - True / CpPayOnly</messlvl2></pre>	
108.12.14:03:131			<messlv14>[IfcBusiMain.ActionGetName/1] (21) Started</messlv14>	
108.12.14:03:131			<pre><messlvl2>[IfcBusiMain.ActionGetName/1] (21) Done - True / NightauditStart</messlvl2></pre>	
108.12.14:03:131			<messlvl4>[IfcBusiMain.ActionGetName/1] (21) Started</messlvl4>	
108.12.14:03:131			<pre><messlvl2>[IfcBusiMain.ActionGetName/1] (21) Done - True / CancelRequest</messlvl2></pre>	
108.12.14:03:131			<pre><messlvl4>[IfcBusiMain.ActionGetName/1] (21) Started</messlvl4></pre>	
108.12.14:03:131			<pre><messlvl2>[IfcBusiMain.ActionGetName/1] (21) Done - True / CcUsage</messlvl2></pre>	
108.12.14:03:131			<messlv14>[IfcBusiMain.ActionGetName/1] (21) Started</messlv14>	
108.12.14:03:131			<messlvl2>[IfcBusiMain.ActionGetName/1] (21) Done - True / NightauditEnd</messlvl2>	
108.12.14:03:131			<pre><messlvl2>[IfcBusiMain.GetLinkState/1] () - True</messlvl2></pre>	
108.12.14:03:131			<pre><messlvl2>[IfcBusiMain.GetCommState/1] () - True</messlvl2></pre>	~

7 IfcBusi.Net SSL Connection with Ifc8.Net

Overview

As of Ifc8.Net Version, 8.14.7.0 IfcBusi.Net and Ifc8.Net Application and Service can communicate via a secure TCP/IP connection using certificates.

Secured TCP/IP connection with IfcBusi.Net will be created by using SSL certificates. For best security official CA, certificates are recommended, it is also possible to use self-signed /self-created certificates.

If CA certificates shall be used, ensure that they will be created as .pfx and .crt files. The certificates will not be added to the Microsoft cert store (MMC) but stored on the local PC or on any other PC which is available in the local network. The certificates will be defined via the IfcApplication configuration editor. IfcBusi.Net.dll will get the certificate information from the Suite8 database IMSQ table upon instance load.

TCP/IP SSL connection is not supported by older IfcBusi.Net.dll versions.

Suite8 IMSQ Table Changes

. . . .

With IFC8.14.7.0	additional	columns	will be a	added to	the IMSQ	table

....

Star	startsete × 🔠 V8 V8ive MB0ESEL-DE2 × 🔠 IMSQ ×								
Spalten	ten Daten Constraints Zugriffsberechtigungen Statistiken Trigger Flashback Abhängigkeiten Details Partitionen Indizes SQL								
1	🔏 🔞 🗢 Aktionen								
	COLUMN_NAME	DATA_TYPE	NULLABLE	DATA_DEFAULT	COLUMN_ID	COMMENTS			
1	IMSQ_ID	NUMBER (30,0)	No	(null)	1	IMSQ_ID identifies IMSQ			
2	IMSQ_ICFG_ID	NUMBER (30,0)	No	(null)	2	Link-ID to ICFG			
3	IMSQ_PORT	NUMBER(4,0)	Yes	(null)	3	the MsqType: 0 = MSMQ 19999 = TcpMqPort			
4	IMSQ_MQ_NAME	VARCHAR2 (30 BYTE)	Yes	(null)	4	the NAME of the MsQueue without the "IFC" or "PMS" prefix			
5	IMSQ_PC_IFC	VARCHAR2 (64 BYTE)	Yes	(null)	5	the IFC_SERV computer name (MSQ-FormatName)			
6	IMSQ_AUTH	VARCHAR2 (64 BYTE)	Yes	(null)	6	IFC8 connection authorization information			
7	IMSQ_AUTH_SHA	VARCHAR2(128 BYTE)	Yes	(null)	7	IFC8 connection authorization information (SHA hash)			
8	IMSQ_CERT_PRIV_IFC	CLOB	Yes	(null)	8	Certificate used for IfcBusi SSL (Ifc8 private key)			
9	IMSQ_CERT_PUBL_IFC	CLOB	Yes	(null)	9	Certificate used for IfcBusi SSL (Ifc8 public key)			
10	IMSQ_CERT_IFC_LOGIN	VARCHAR2 (1024 BYTE)	Yes	(null)	10	Authorization data used by Ifc8 for IfcBusi SSL			
11	IMSQ_CERT_PRIV_BUSI	CLOB	Yes	(null)	11	Certificate used for IfcBusi SSL (IfcBusi private key)			
12	IMSQ_AUTH_CERT	VARCHAR2(128 BYTE)	Yes	(null)	12	IfcBusi SSL/TLS connection authorization information			

Column Name	Format	Note
IMSQ_CERT_PRIV_IFC	CLOB	The certificate used for IfcBusi SSL
		(Ifc8 private key)
IMSQ_CERT_PUBL_IFC	CLOB	The certificate used for IfcBusi SSL
		(Ifc8 public key)

IMSQ_CERT_IFC_LOGIN	VARCHAR2(1024 BYTE)	Authorization data used by Ifc8 for
		IfcBusi SSL
IMSQ_CERT_PRIV_BUSI	CLOB	The certificate used for IfcBusi SSL
		(IfcBusi private key)
IMSQ_AUTH_CERT	VARCHAR2(128 BYTE)	IfcBusi SSL/TLS connection
		authorization information
IMSQ_CERT_PRIV_IFC	CLOB	The certificate used for IfcBusi SSL
		(Ifc8 private key)

IFC8.NET V.8.14.7.0 will automatically add these columns to the table when starting up and connecting to Suite8 Database.

Create a Certificate for IfcBusi.Net

Create a Certificate using Ifc Application

In the IfcApplication select the **Options** menu and choose **Create certificate**.

fc1	Configuration	Alt+C	C <= Db
TimeSt	Enable config mode	Alt+G	HOTEL 1
I LINC D	Create certificate	Alt+T	611:LOCAL
	Simulation	Alt+U	omm:Asyn
06.23.11	Database swap	Alt+W	
	 Show monitoring 	Alt+E	

A new form **Create a new certificate** opens.

Cartificata nama:	
C:\FIDELIO\Ifc8.Net\FKT\1V8Liv	e\11FIASMSC\lfc8.Net-Cert(FIAS)
Password (min. length 8, req.	1 upper & numeric & symbol char.)
/alidity (1-5 years):	
/alidity (1-5 years):	
/alidity (1-5 years):	

Certificate name: Define the path and name of the certificates. **Certificate password:** define the certificate password

Note: Password must have min, length of 8 characters, must contain 1 upper letter, 1 numeric char. And 1 symbol char.

Note: Validity: define the validity of the certificate (in years) must **NOT** be more than **5 years**!!

Do not forget to properly note down the password and ensure it is passed on to the person(s) responsible on-site.

- **1.** Click **Cancel** to revert.
- 2. Click OK to confirm certificate definition

A confirmation window will open with the certificate path and name.



Find the certificates in the defined directory.

^ □ Name ^	Date modified	Туре	Size
S IfcBusi.Net.dll	22.06.2020 21:33	Application exten	1.409 KB
IfcBusi.Net.tlb	23.06.2020 05:31	TLB File	5 KB
🙀 IfcBusi.Net-Cert(V8Live).crt	23.06.2020 12:07	Security Certificate	1 KB
IfcBusi.Net-Cert(V8Live).pfx	23.06.2020 12:07	Personal Informati	3 KB
IfcSuite8Wrapper.dll	22.06.2020 21:33	Application exten	36 KB
🗟 Interop.FidelioDatabase.dll	22.06.2020 21:33	Application exten	23 KB
Interop.fidelioerror.dll	22.06.2020 21:33	Application exten	12 KB
🚳 Interop.fidelioGlobalStatus.dll	22.06.2020 21:33	Application exten	44 KB
Interop.FideliolfcAction.dll	22.06.2020 21:33	Application exten	14 KB
Interop.fidelioMisc.dll	22.06.2020 21:33	Application exten	17 KB
Interop.FidelioPostings.dll	22.06.2020 21:34	Application exten	25 KB

Import Certificate

To assign a certificate to the IfcBusi.Net connection open the Configuration editor and go to PMS1 – COMM – DBS node. Mark the SslConfig attribute name.

rile • Options •			
onfig structure	Attributes		Selected attribute
IFC9	Name DbsDebugMode FoCommTcpDns MonConnldFormat FoCommPort FoCommPrwd SslConfig	Value N N IpAddress 5501 Open SslConfig	Name SelConfig Current value Open SslConfig New value Open SSL/TLS configuration for lfcBusi Undo Description The SSL/TLS configuration for lfcBusi communication Only items from list are allowed Default: "Open SslConfig" Path /IFC9/PMS1/COMM/DBS Type Initialize, DbsConf

In the **Selected Attribute** section select the "Open SSL/TLS configuration for IfcBusi" button



If Configuration Editor has been accessed using the Windows Authentication another **Suite8** user authentication is required now

Authentication	n by Suite8 user	×
User Name:	S8user	
Password:	•••••	

After a successful login a new form opens.

ument:	Ivo certificate defined!		Import certificate from file
Vew:	No certificate selected!		Import certificate from cert store
)etails	of certificate used for mutual authenticat	ion (optional)	
Current:	No certificate defined!		import certificate from file
Sument: New:	No certificate defined! No certificate selected!		Import certificate from file

This form enables a user to select and assign certificates for the connection IfcBusi.NET to IFC8.NET.

Details of server certificate:

Status	Status Detail	Notes
Current:	No certificate defined!	In case no certificate is assigned
	Certificate details	In case of certificate assigned
New:	No certificate defined!	In case no certificate is assigned
	No certificate defined!	In case of a certificate assigned but no
		other certificate chosen
	Cortificate details	In case the certificate re-assigned
		in case the certificate re-assigned
	The certificate will be	In case certificate will be removed
	removed!	

Details of the certificate used for mutual authentication (optional)

Status	Status Detail	Notes		
Current:	No certificate defined!	In case no certificate is assigned		
	Certificate details	In case of certificate assigned		
New:	No certificate defined!	In case no certificate is assigned		

Status	Status Detail	Notes
	No certificate defined!	In case a certificate is assigned but no other certificate is chosen
	Certificate details	In case the certificate re-assigned
	The certificate will be removed!	In case certificate will be removed

1. Cancel button

Select to revert close form. This will revert changes done before pressing Apply button

2. Clear certificates button

Select this to remove assigned certificates

3. Apply button

Select to confirm changes. The form will close then. Apply button is only available when changes were made.

It is possible to assign a certificate from a file (.pfx) or a certificate imported from a local certificate store.



Import Certificate from File

Add Server Certificate

This is the server certificate of IfcApplication.

1. Select the **Import certificate from file** The Select file form opens.



2. Choose the certificate (pfx file) to assign as the pfx certificate requires a password.



SSL/TLS Setup fo	Select server certificat - Certificate files (*.pfx) CERTING Sector (IEC8) of CERTING Sector (IEC8) of CERTING Sector (IEC8) of	×	-		×
Details of server (Current: No certifica New: No certifica	IV8Live IV8Live	^ ^	ficate ste fror	from file n cert stor	e
Details of certifica Current: No certifica New: No certifica	B 15CTG 17DTW B 17DTW B 18XML_POS B 20087POS B 210PI B 22CC9 B 25HT24 B 25LU B 25LU	*	ficate ite fror	from file n cert stor	je
Cancel	If c8.Busi.Net-cert(IFC8).pfx: SeffSigned+UntrustedRoot → CN="If c8.Busi.Net(IFC8)", valid until 24.06.2040	3] A	pply	

3. Select **OK** to confirm certificate choice.

The form displays the certificate information.

Details	of server certificate		
Current:	No certificate defined!		Import certificate from file
New: File: (IFC8).p	Subject : Ifc8.Busi.Net(IFC8) Issuer : Ifc8.Busi.Net(IFC8) Validity from 24.06.2020 until 24.00 C:\FIDELIO\Ifc8.Net\FKT\1V8Live\ x	5.2040 11FIASMSC\lfc8.Busi.Net-cert	Import certificate from cert store
Details	of certificate used for mutual au	thentication (optional)	
Current:	No certificate defined!		Import certificate from file
Current: New:	No certificate defined! Certificate will be removed!		Import certificate from file Import certificate from cert store
New:	No certificate defined! Certificate will be removed! Don't forget to res	tart all Suite8 instances after (Import certificate from file Import certificate from cert store

If no mutual authentication is desired click **Apply** to import the certificate into IFC Configuration.

NOTE: Adding certificates requires a restart of all Suite8 Workstations having IfcBusi.Net installed, as the IfcBusi.Net must be reloaded to read the new settings.

Add a certificate for mutual authentication:

This is the Server Certificate of IfcBusi.Net

Note: It is only possible to assign a certificate for mutual authentication at the same step od assigning the Server certificate.

4. Select the Import certificate from file button.

The Select file form opens.

5. Search the certificate file to assign and enter the required password.



6. Click Enter.

Current: No certifica		ficate from file
New: Subject : Issuer : Validity f File: C:\FIDELI((IFC8).pfx		ite from cert store
Details of certifica Current: No certifica		ficate from file
New: Certificate		te from cert store
Cancel	If cBusi.Net-Cert(V8Live).pfx: SelfSigned+UntrustedRoot → CN="If cBusi.Net-Cert(V8Live)", valid until OK Cancel	Apply

If the password is correct the form displays the certificate information.

7. Click **OK** to confirm certificate choice.

<mark>≝8</mark> SSL/TL	S Setup for communication between lfc8.NET and Suite8 (lfcBusi.NET)		_		×	
Details	of server certificate					
Current:	No certificate defined!	Import	t certificate f	from file		
New:	Subject : Ifc8.Busi.Net(IFC8)	Import ce	rtificate from	n cert store		
File: (IFC8).pf)	Subject : trc8.Busi.Net(IFC8) Issuer : tfc8.Busi.Net(IFC8) Validity from 24.05.2020 until 24.06.2040 File: C:\FIDELIO\lfc8.Net\FKT\1V8Live\11FIASMSC\fc8.Busi.Net-cert (IFC8).pfx					
Details	of certificate used for mutual authentication (optional)					
Current:	No certificate defined!	Import	t certificate f	from file		
New:	Subject : lfcBusi.Net-Cert(V8Live) Issuer : lfcBusi.Net-Cert(V8Live)	Import ce	rtificate from	n cert store		
File:	Validity from 23.06.2020 until 23.06.2040 C:\FIDELIO\lfc8.Net\lfcBusi\lfcBusi.Net-Cert(V8Live).pfx					
	Don't forget to restart all Suite8 instances after press	ing 'Apply	1			
	Cancel Clear certificates		Ap	oply		

8. Click **Apply** to import the certificate into IFC Configuration.

Import Certificate from Cert Store

Requirements:

- The certificate to assign must be available in the local Certificate store of the IFC PC.
- The certificate must be a .pfx one using the private key
- The certificate must be imported into either CurrentUser or LocalMachine Personal store

Add Server certificate

This is the server certificate of IfcApplication .

Rg studure	SSL/TLS Setup for communication between HcB.NET and Suite8 (HcBusi.NET)) – 🗆 X	
PC3 ⊕ IPC1 ⊕ PMS1 ● PARSE ⊕ PARSE ⊕ PROT ⊕ COMM ● COMM	Details of server certificate Current : No certificate defined! New: No certificate selected!	Import certificate from Tile Import certificate from cert store	on for ficBusi
	Details of certificate used for mutual authentication (optional)		Bas -
	New: No certificate selected!	Appet pathons have be import intelliging him the give	

1. Select the Import certificate from cert store button:

	 Personal (My) Other userse (Address book) 	 Revoked certificates Trusted people
Issued to / Subject		

- 2. Choose the Store location and Store name the certificate is located at.
- **3.** Enter the certificate name / Issued to value

Store location	Store name	
Current user	O Trusted root certificate authorities (CA)	O Intermediate certificate authorities (CAs
O Local machine	Personal (My)	O Revoked certificates
	Other userse (Address book)	O Trusted people
	 Third-party certificate authorities (CAs) 	○ Trusted publisher
ssued to / Subject		
fc8.Busi.Net(IFC8)		

4. Click Apply.

If the certificate is found the form displays the certificate details.

Jetalis			
Current:	No certificate defined!	Import	certificate from file
New: Store:	Subject : Ifc8.Busi.Net(IFC8) Issuer : Ifc8.Busi.Net(IFC8) Validity from 24.06.2020 until 24.06.2040 Current User/Mr/\ffc8.Busi.Net(IFC8)	Import cer	rtificate from cert store
Details Current:	of certificate used for mutual authentication No certificate defined!	on (optional)	certificate from file
Details Current: New:	of certificate used for mutual authentication No certificate defined! Certificate will be removed!	on (optional) Import Import cer	certificate from file tificate from cert store
Details Current: New:	of certificate used for mutual authenticati No certificate defined! Certificate will be removed! Don't forget to restart all Suit	on (optional) Import Import cer re8 instances after pressing 'Apply'	certificate from file ttficate from cert store

If no mutual authentication is desired select Apply to import the certificate into IFC Configuration.

Add a certificate for mutual authentication:

This is the Server Certificate of IfcBusi.Net

Note: It is only possible to assign a certificate for mutual authentication at the same step of assigning the Server certificate.

- 1. Choose the Store location and Store name the certificate is located at.
- **2.** Enter the certificate name / Issued to value.

Select	certificate for mutual	authentication from cert store
Store © C O L	location iurrent user ocal machine	Store name Trusted root certificate authorities (CA) Intermediate certificate authorities (CAs) Personal (My) Revoked certificates Other userse (Address book) Trusted people Third-party certificate authorities (CAs) Trusted publisher
Issue	d to / Subject	
lfcBu	usi.Net-Cert(V8Live)	

3. Click **Apply** to import the certificate into IFC Configuration.

Config structure	Attributes		Selected attribute
E IFC9 E IFC9 E PMS1 PRN E PARSE E PROT E COMM C OMM E COMM E COMM	Name DbsDebugMode FoCommTopDns MonConnIdFormat FoCommPort FoCommPort FoCommPort SstConfig	Value N N IpAddress 5501 Open SalConfig	Name SslConfig Current value Open SslConfig New value Open SSL/TLS configuration for lfcBusi Undo Description The SSL/TLS configuration for lfcBusi communication Only items from list are allowed Default: "Open SslConfig" Path /IFC9/PMS1/COMM/DBS Type Initialize, DbsConf

4. Click **Apply** or **Apply&Save** to confirm changes. The IFC will reinitialize.

Start/Stop - Options	- About
fc1 Pms1	Main 🗹 🕂 🗲 📄 🗢 📜 << DbAction – MessLv3 🔃 🗋 Style: Debug 🗋 MontorRefresh 🖉 Bottom 🛛 FIAS_Log.XML
TimeStamp	PMS1-V81.ive SERV[11] ⇔ 085-ckba0bsConnect.0F0Comm9ort-5191 Link: Alive, ¹⁷ Comm, Sync
106.25.10:13:551	<pre>kWessWis>[CommDos.checklic/26] reature license "AkilaL_CAS" done</pre>
106.25.10:13:55	<pre>KMessLv13>[CommLDs.CheckLic/26] Feature license "FULL_CAS" done</pre>
[06.25.10:13:55]	<pre>CMessLv13>[IfcObject.ChangeLinkState/26] Start-Alive</pre>
[06.25.10:13:55]	<pre>kMessLv13>[CommTcpServMulti.Init_Specific/26] (10.175.63.106:5191) → done</pre>
[06.25.10:14:37]	<pre><messlvl3>[TcpFoWsConnect.Init/9] SslStream authentication for Socket(10.175.63.106:5191 - 10.175.63.106:61188) will be validated</messlvl3></pre>
[06.25.10:14:37]	<pre>KMessIv13>[TcpFoWsConnect.SslStream_ValidateClientCertificate/9] (10.175.63.106:61188) Certificate validation via IMSQ table</pre>
[06.25.10:14:37]	<pre>KMessLvl3>[TcpFoWsConnect.SslStream_ValidateClientCertificate/9] (10.175.63.106:61188) Certificate validation done via ClientCertInfo=""</pre>
106.25.10:14:371	CMessLv13>[TcpF0WsConnect.Init/9] SslStream authentication done: Cipher: Ae3256 strength 256 Frotcoci: Isl2 Is authenticated as server: True Is Encrypted: True Certificate revocation checked: True Local cert issued to "CN=TcBusi.Net(IFC8)"(SelfSigned+UntrustedRoot), valid until 24.06.2040 Remote cert issued to "CN=TcBusi.Net-Cert(VELive)" (SelfSigned+UntrustedRoot), valid until 23.06.2040
[06.25.10:14:37]	<pre>kMessLv13>[TcpFoWsConnect.Init/9] - done</pre>
[06.25.10:14:37]	<pre><messlv13>[CommMainServ.OnChangeCommState/9] (10.175.63.106:61188) Off-Sync</messlv13></pre>
[06.25.10:14:38]	+[10.175.63.106:61188 ↑] <linkpmsconf date="200625" defref3="8.14.6.2" time="101438"></linkpmsconf> +
[06.25.10:14:38]	-[10.175.63.106:61188 7] <linkalive date="200625" time="101438" userid="V8Live"></linkalive> +

NOTE: Adding certificates requires a restart of all Suite8 Workstations having IfcBusi.Net installed, as the IfcBusi.Net must be reloaded to read the new settings.

After importing the certificates from the cert store the certificates can be removed from the cert store as IFC8.Net and IfcBusi.net.dll read the certificates from the database. This ensures that these certificates will not be used by other systems.

Re-assign Certificates

In case existing certificates will be replaced with new ones, the re-assignment will work the same way.

File • Options • Config structure Attributes Selected attribute IFC9 IFC1 DisDebugMode Name PARSE PARSE MonConnidFomat IpAddress PROT MonConnidFomat IpAddress Open SalConfig Press SalConfig New value Open SslCrifig Image: MAIN SalConfig Open SalConfig New value Image: Press SalConfig Open SalConfig Description Image: Press SalConfig Description The SSL/TLS configuration for IfcBusi Image: Press Path IfC9/PMS1/COMM/DBS Path	ConfigXml Setup for < unknow	vn>		×
//FC9/PMS1/COMM/DBS	ConfigXml Setup for <unknow File - Options - Config structure - IFC3 - IFC1 - PRN - PRN - PARSE - PROT - COMM - DDS - SmAth Def - MAIN</unknow 	Attributes Name DbsDebugMode FoCommTcpDns MonConnldFormat FoCommPot PmsUserPwd SslConfig	Value N N IpAddress 5501 Open SslConfig	- × Selected attribute Name SalConfig Current value Open SslConfig New value Open SsL/TLS configuration for lfcBusi Undo Description The SSL/TLS configuration for lfcBusi communication Only tems from list are allowed Default: "Open SslConfig" Path
				ratn //IFC9/PMS1/COMM/DBS Type

New value			
Open SSL/	TLS configuration for IfcBusi		

Ifc Configuration Editor is accessed using the Windows Authentication another Suite8 user authentication is required.

Current:	Subject: Ifc8.Busi.Net(IFC8) Issuer: Ifc8.Busi.Net(IFC8)		Import certificate from file
	Validity from 24.06.2020 until 2	24.06.2040	Import certificate from cert store
Details Current:	Subject: KoRusi Net Cot()() in	l authentication (optional)	Import certificate from file
	Issuer: IfcBusi.Net-Cert(V8Live	=) 23.06.2040	Import certificate from cert store
	Validity from 23.06.2020 until 2		
New:	Validity from 23.06.2020 until 2 No certificate selected!		

To change the Certificates select the "**Import certificate from file**" or the "**Import certificate from cert store**" button and follow the steps as described in the above section.

Note: Changing the existing **certificate for mutual authentication** is currently not possible without re-assign the server certificate.

For this, the buttons to "import certificate from file" and "**Import certificate from cert store**" for mutual authentication are not available

Clear Certificates

Current:	bject: Ifc8.Busi.Net(IFC8)	Import certificate from file	
iss Va	lidity from 24.06.2020 until 24.06.2040	Import certificate from cert store	
New: No	certificate selected!		
Details of o	certificate used for mutual authentication (optional)		
Details of c Current: Su	certificate used for mutual authentication (optional) bject: lfcBusi.Net-Cert(V8Live)	Import certificate from file	
Details of c Current: Su Iss Va	bject: lfcBusi.Net-Cert(V8Live) uer: lfcBusi.Net-Cert(V8Live) lidity from 23.06.2020 until 23.06.2040	Import certificate from file	
Details of c Current: Iss Va New: No	certificate used for mutual authentication (optional) bject: lfcBusi.Net-Cert(V8Live) uer: lfcBusi.Net-Cert(V8Live) lidity from 23.06.2020 until 23.06.2040 certificate selected!	Import certificate from file	
Details of c Current: Su Iss Va New: No	certificate used for mutual authentication (optional) bject: lfcBusi.Net-Cert(V8Live) uer: lfcBusi.Net-Cert(V8Live) lidity from 23.06.2020 until 23.06.2040 i certificate selected!	Import certificate from file	
Details of c Current: Su Iss Va New: No	certificate used for mutual authentication (optional) bject: lfcBusi.Net-Cert(V8Live) uer: lfcBusi.Net-Cert(V8Live) lidity from 23.06.2020 until 23.06.2040 ocertificate selected!	Import certificate from file	
Details of Current: Su Iss Va New: No	certificate used for mutual authentication (optional) bject: lfcBusi.Net-Cert(V8Live) uer: lfcBusi.Net-Cert(V8Live) lidity from 23.06.2020 until 23.06.2040 certificate selected!	Import certificate from file Import certificate from cert store	

To remove/clear all certificates select the "Clear certificates" button.

Lumont.				
Jurrent.	Subject: Ifc8.Busi.Net(IFC8)		Import certificate from file	6
	Issuer: Ifc8.Busi.Net(IFC8) Validity from 24.06.2020 until	24.06.2040	Import certificate from cert st	ore
New:	Certificate will be removed!		L:	
Details Current:	of certificate used for mutua	al authentication (optional)	has not contributed from file	
Details Current:	of certificate used for mutual Subject: lfcBusi.Net-Cert(V8Liv Issuer: lfcBusi.Net-Cert(V8Liv Validity from 23.06.2020 until	e) e) e) 23.06.2040	Import certificate from file	ore
Details Current: New:	of certificate used for mutual Subject: lfcBusi.Net-Cert(V8Liv Issuer: lfcBusi.Net-Cert(V8Liv Validity from 23.06.2020 until Certificate will be removed!	al authentication (optional) e) e) 23.06.2040	Import certificate from file	ore
Details Current: New:	of certificate used for mutual Subject: lfcBusi.Net-Cert(V8Liv Issuer: lfcBusi.Net-Cert(V8Liv Validity from 23.06.2020 until Certificate will be removed!	al authentication (optional) e) e) 23.06.2040	Import certificate from file	ore
Details Current: New:	of certificate used for mutual Subject: IfcBusi.Net-Cert(V8Liv Issuer: IfcBusi.Net-Cert(V8Liv Validity from 23.06.2020 until Certificate will be removed!	al authentication (optional) e) e) 23.06.2040	Import certificate from file	ore
Details Current: New:	of certificate used for mutual Subject: If cBusi.Net-Cert(V8Liv Issuer: If cBusi.Net-Cert(V8Liv Validity from 23.06.2020 until Certificate will be removed! Don't forget to	e) e) 23.06.2040 restart all Suite8 instances after	Import certificate from file Import certificate from cert st pressing 'Apply'!	ore

To confirm certificate settings click **Apply** to save changes.

NOTE: Adding certificates requires a restart of all Suite8 Workstations having IfcBusi.Net installed as the IfcBusi.Net must be reloaded to read the new settings.

Certificates when Moving IFC Instance

In case the IFC8.Net Instance or service has been moved to another PC/Server the certificates must be defined again in the Ifc8Config as the defined certificate values will not be valid anymore!

The related Error message might occur in the IFC8 instance Pms object:

<App_Config_InvValue_Exception>[TcpFoWsConnect.Init/6] -Description: Server certificate can not be retrieved from IMSQ table value \rightarrow The specified network password is not correct.

Follow the steps for Re-assign certificates.

First Start of IfcBusi.Net with SSL Settings Changed

When starting Suite8 Client the first time after **adding/re-assigning/clearing** certificates the following notification pops up upon IfcBusi.Net instance loading **for EFT Interface**:



Click OK to confirm new settings and continuing loading the IfcBusi.Net instance.