

MedITEX instructions for clinical IT administrators: MedITEX WebPortal Installation with Secure SSL Connection (using HTTPS protocol)

- 1. Right-click on the ZIP-file with WebPortal installation, choose "*Extract All*", and save everything in a folder named "*WebPortal*".
- Activate IIS (Internet Information Services) on the WebPortal computer, if necessary: Click on "Control Panel -> Programs and Features -> Turn Windows features on or off"



Following extensions need to be activated:

Windows Features			×
Turn Windows features on or off			6
To turn a feature on, select its check box. To turn a feat check box. A filled box means that only part of the featu	ure off, ire is tu	clear i rned c	ts on.
🕀 🔜 🔒 Games			
Indexing Service			1
🕼 🔐 Internet Explorer 10			
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E      FTP Server			
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IIS Management Console			
IS Management Scripts and Tools			
IS Management Service			
World Wide Web Services			
Application Development Features			
.NET Extensibility			
ASP			
ASP.NET			
CGI			
ISAPI Extensions			
V ISAPI Filters			
Health and Disposition			



3. How to order and install an SSL certificate?

# 3.1 Request a SSL certificate directly from *IIS Manager*

a. Open your IIS Manager and choose "Server Certificates".

File View Help		
onnections	Can LASS DC Home	Actions
d.	JASC-PC Home	Open Feature
JASC-PC (ASC-PC)(INITES)	Filter:	Manage Server     Restart     Start     Stop     View Application People
	Headers Restrictions	E View Sites Change .NET Framework Version
	ISAPI Friters Modules Output Caching Server Certificates	Help     Online Help

b. Click on "Create Certificate Request..."

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File View Help				
Connections	Carl Commence			Actions
む	Server Ce	rtificates		Import
JASC-PC (JASC-PC\critex)	Use this feature to reque	st and manage certificates that t	he Web server can use with Web	Create Certificate Request
Application Pools	sites configured for SSL.	ale and ale and ale and ale		Complete Certificate Request.
p w sites	Name	Issued To	Issued By	Create Domain Certificate
				Create Self-Signed Certificate.

c. Specify the required information and click "Next".

equest Certificate			9	23
Distinguishe	Name Properties			
Specify the required infor official names and they ca	ation for the certificate. State/province and Ci not contain abbreviations.	ty/locality must be specified as		
Common name:				
Organization:				
Organizational unit:				
City/locality				
State/province:				
Country/region:	DE	•		
	Previous	Next Finish	Cance	



d. Select a cryptographic service and a bit length and click "Next".

equest Certificate		2
Cryptographic Service Provider Properties		
Select a cryptographic service provider and a bit length. The bit length of the certificate's encryption strength. The greater the bit length, the stronger the length may decrease performance.	e encryption key determines the security. However, a greater bit	
Cryptographic service provider:		
Bit length: 2048 -		
Previous	at Finish C	Cancel

e. Specify the file name for the certificate request and choose a folder where the .TXT file, which will be created after clicking *"Finish"*, should be saved.

quest Certificate			l	9
File Name				
Specify the file name for the certificate request. signing.	This information can	be sent to a certifica	ation authority for	
Specify a file name for the certificate request:				

### 3.2 Send a request for SSL certificate

Send the .TXT file containing the CSR code to your certificate provider.

### 3.3 Complete the certificate request

a. After you have received your certificate, install it on the server: right-click on it and choose "*Install*" from the context-menu.



b. Open the IIS Manager and choose "Server Certificates"

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	۷	4	P			View Sites Change .NET Framework Version
	Worker Process	Modules	Output Caching	Server Certificates		Help Online Help
	Features View	Content View				

# c. Click on "Complete Certificate Request..."

Internet Information Services (IIS) I	Manager			
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File View Help				
Connections	Server Certif Use this feature to request an sites configured for SSL.	icates nd manage certificates that	the Web server can use with Web	Actions Import Create Certificate Request Complete Certificate Request
⊳- <u>e</u> Sites	Name	Issued To	Issued By	Create Domain Certificate Create Self-Signed Certificate Help Online Help

d. Fill in the requested information and click on "OK"

nplete Certificate Request	9	23
Specify Certificate Authority Response		
Complete a previously created certificate request by retrieving the file that contains the certificate authority response.	s	
File name containing the certification authority's response:		
u		
Friendly name:		
ОК	Cance	J



- 4. Copy "MedITEX\_Webportal\_ISAPI.dll" into the WebPortal folder.
- 5. Permit the "MedITEX\_Webportal\_ISAPI.dll" to run under ISAPI- and CGI- Settings in the IIS manager.



6. Create a new application pool and a new application in the IIS-manager:

To see additional help on this topic, please visit this website: <u>http://www.unigui.com/doc/online\_help/index.html?isapi\_module.htm</u> In your IIS, create a new application pool "*MedITEX WebPortal*" and a new application "*webportal*" for that pool.

7. You can choose if you want to install the web site as -

<u>Method a)</u> an application under default web site (right-click on *"Default Web Site -> Add application"*). It can be opened with *"URL/WebPortal\_Name"*:

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	Siter	Name	ID	Status	Binding	0	Help
	Default Web Site - WebPortal	\varTheta Default Web Site	1	Started (ht	*:80 (http)		Online Help



<u>Method b</u>) a new separate Web Site (right-click on "Sites -> Add Web Site"):

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File View Help						
Connections	Cites				Ac	tions
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JASC-PC (JASC-PC\critex)	Filter	- 88	Go 🕞 🥁 Show A			Set Web Site Defaults
Application Pools	Name	ID	Status	Binding	0	Help
Default Web Site	Default Web Site	1	Started (ht	*:80 (http)		Online Help
> 😜 webportal	😔 webportal	2	Started (ht	*:81 (http)		

Method a) describes an application under default web site. It is possible to create several applications. All of them have the same port and can be assigned with only one certificate. Method b) describes a separate web site. Every separate web site has its own port and an assigned certificate.

8. Assigning the Application Pool:

In Advance Settings screen set the *Application Pool* to one you created in first step.

(General)		
Application Pool	MyAppPool	
Physical Path	D:\webapps	
Physical Path Credentials		
Physical Path Credentials Logon Type	ClearText	
Virtual Path	/mywebapps	
Behavior		
Enabled Protocols	http	
	(General) Application Pool Physical Path Physical Path Credentials Physical Path Credentials Logon Type Virtual Path Behavior Enabled Protocols	Mysical Path     D:webapps       Physical Path     D:webapps       Physical Path Credentials     ClearText       Virtual Path     /mywebapps       Behavior     Enabled Protocols

Next step is to adjust the handler mapping for the application you just created.





In Handler Mappings screen right-click on "ISAPI-dll" and select "Edit Feature Permissions".

🗿 Handler Mapp	ings	
Use this feature to specify the re code, that handle responses for	sources, such as specific request t	DLLs and managed ypes.
Group by: State	•	
Name 🔺	Path	State
Disabled		
ISAPI-dll	*.dll	Disabled
Enabled		
OPTIONSVerbHandler	*	Enabled
TRACEVerbHandler	*	Enabled
StaticFile	*	Enabled
•		F

Check the "Execute" option and press "OK".

Edit Feature Permissions	? ×
Permissions:	
Read	
Script	
Execute	
OK Cance	a

9. Create Bindings and assign the port and the certificate:

# Method a):

Open the IIS manager, click on "Sites -> Default Web Site" and choose "Bindings..."

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- Application Pools	115	00				Edit Site	
Default Web Site			NBC	1		Bindings	
		<b>4</b>	<b>***</b>	<b>e</b>		Basic Settings	_
	Authentication	Handler Mappings	HTTP Response	ISAPI Filters		View Applications	
		D-	- Contraction of the second se		-	View Virtual Directories	

Choose the type "https" and click on "Edit..."

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Choose your SSL certificate and change the port to 443 (standard port number), then click on "OK"



# Method b):

Open the IIS manager, click on "Sites", choose your created web site and click on "Bindings..."

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File View Help							
Connections	() webpartal liama				Actions		
2	🗌 💽 webp	ortal Home			Explore		
JASC-PC (JASC-PC\critex)	Filter	- 🏭 Go - 🗸	Show All		Edit Permissions		
Application Pools	IIS			<u> </u>	Edit Site		
Default Web Site		-	NE		Bindings		
> 😜 webportal		<b>4</b>	<b>*</b>		Basic Settings		
	Authentication	Handler Mappings	HTTP Response		View Applications		
			Headers		View Virtual Directories		

Choose the type "https" and click on "Edit..."

Choose your SSL certificate and a port number (standard port number: 443), then click on "OK"





10. Right-click on "Recdate.ini" (in the WebPortal folder) -> Edit.

> Change "*localhost*" to the Firebird database location of MedITEX IVF:

There is already a *"Recdate.ini"* file in the *MedITEX VF* folder. Open this file and compare them. If MedITEX WebPortal is not located on the same server as the *IVF*, change *"localhost"* from the WebPortal Recdate.INI file to the same server-id in the *"Recdate.ini"* file from the *IVF* folder. Be sure that the *"DBAlias"* are the same in both *"Recdate.ini"* files.



Then copy "RecDate.ini" into that folder where your IIS manager is saved.

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Favoriten	Name	Änderungsdatum 20.11.2010 13-36	Typ Anwendungserwe	Größe 1.024 KB
E Desktop	S modrafit.dll	14.07.2009 03:15	Anwendungserwe	39 KB
Downloads	anativerd.dll	01.06.2012 06:38	Anwendungserwe	356 KE
E Zuletzt besucht	i protsup.dll	14.07.2009-03:16	Anwendungserwe	20 KB
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A Marik	🗟 static.dll	20.11.2010 13:21	Anwendungserwe	37 KB

#### 11.Check

Now it is possible to open the WebPortal with the corresponding link: <u>Method a)</u> URL: <u>HTTPS://server/webportal/meditex\_webportal\_isapi.dll</u> <u>Method b)</u> URL: <u>HTTPS://server/meditex\_webportal\_isapi.dll</u>

If you choose any other port then the standard 443, change the link like that: <u>Method a)</u> URL: <u>HTTPS://server:PORT/webportal/meditex\_webportal\_isapi.dll</u> <u>Method b)</u> URL: <u>HTTPS://server:PORT/meditex\_webportal\_isapi.dll</u>