

VPN with INSYS Connectivity Service

OpenVPN Connection to INSYS Connectivity Service under iOS with iPad

Configuration Guide

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Publisher INSYS icom GmbH Hermann-Köhl-Str. 22 D-93049 Regensburg Germany

Phone	+49 941 58692 0
Fax	+49 941 58692 45
E-mail URL	info@insys-icom.com http://www.insys-icom.com

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1 Introduction

General

The present publication refers to a combination of selected hardware and software components of INSYS icom GmbH as well as other manufacturers. All components have been combined with the target to realize certain results and effects for certain applications in the field of professional data transfer.

All components have been prepared, configured and used as described in this publication. Thus, the desired results and effects have been achieved.

The exact descriptions of all used components, to which this publication refers, are described in the tables *Hardware, Accessories* and *Software* at the end of this publication.

The symbols and formattings used in this publication are explained in the correspondent section at the end of this publication.

Some configurations or preparations, which are precondition in this publication, are described in other publications. Therefore, always refer to the related device manuals. INSYS devices with web interface provide you with helpful information about the configuration possibilities, if you click on "display help text" in the header.

An Apple iPad can also participate in the INSYS Connectivity Service via an Open-VPN connection.

Refer to <u>http://www.openvpn.net</u> for further information about OpenVPN.

Use this publication to find out how to include an Apple iPad into the INSYS Connectivity Service via an OpenVPN connection. Prerequisite is that the app OpenVPN Connect is installed on the tablet.

The present publication describes the proceeding under iOS 5.1 on an iPad 1. Proceed accordingly for an installation under other versions/devices.



Figure 1: iPad with INSYS Connectivity Service via OpenVPN

Configuration

Proceed as follows to configure the OpenVPN connection to the INSYS Connectivity Service.

- Downloading the configuration file from INSYS Connectivity Service How to download the OpenVPN configuration file for your tablet from the IN-SYS Connectivity Service. This step must be performed from a PC.
- → Your PC is connected to the Internet.
- → The tablet is completely configured in the INSYS Connectivity Service.
- 1. Open the browser and log in to your account in the INSYS Connectivity.

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Password		
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INSYS MICROELECTRONICS GmbH www.insys-icom.de Impressum connectivity@insys-icom.de 2. Select the "Devices" tab.

iroups	evices	My VPN	l Hub						
Add a dev	ice Clo	one	Delete						
Showing 1 to Device Name	4 of 4 Entrie Serial	s Type	online	Group	Manage	Files	Local IP	Netmask	Dev Co
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Feldgerät2	10010002	INSYS	Offline	FieldDevices	Manage	Download	192.198.14.1	255.255.255.0	Cod
Leitrechner		PC	Offline	ControlCenter	Manage	Download	192.198.16.1	255.255.255.0	
Tablet		PC	Offline	ServiceTechnicians	Manage	Download	192.198.17.1	255.255.255.0	
Search									

3. Select the "Download" button in the row of the respective device (here "Tablet").

Mact Help Log out						I	NSYS Conne	ectivity Ser	vice INSYS	icom
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Feldgerät2 10010002	INSYS	Offline	F	ieldDevices	Manage	_	Download	192.198.14.1	255.255.255.0	Cod
Leitrechner	PC	Offline	C	Download		×	ownload	192.198.16.1	255.255.255.0	
Tablet	PC	Offline	Ser	Certificates in PK	CS12 Container		ownload	192.198.17.1	255.255.255.0	
Search				Certificate Authori	ty					
Show 10 - Entries				Private Key						
← →				Device Certificate						
				OpenVPN Config	file					
							_			
						Cancel				

- 4. Select "OpenVPN Config File" using the right mouse button and "Save target as" to save the file on the computer.
- 5. Select "Cancel" and close the browser.
 - ✓ You have downloaded the configuration file from the INSYS Connectivity Service to your computer with this.

Sending the configuration file to the iPad

How to send the OpenVPN configuration file to the iPad that is intended to establish the OpenVPN connection.

- → You have downloaded the OpenVPN configuration file as aforesaid.
- 1. Send the OpenVPN configuration file as e-mail attachment to the e-mail address configured on the iPad.
 - ✓ You have completed all preparatory steps with this that are to be performed from a PC.

Configuring OpenVPN Connect for the INSYS Connectivity Service

How to configure OpenVPN Connect under iOS for a connection to the INSYS Connectivity Service.

- → OpenVPN Connect is installed on the iPad.
- → The edited configuration file has been sent to the iPad via e-mail.
- → The iPad is connected to the Internet.
- 1. Open the Mail application and the e-mail with the configuration file.



2. Select the attached file and "Open in "OpenVPN"".

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✓ OpenVPN Connect opens.

3. Select the "+" behind the new profile under "New profiles are available...".

Abou	1	OpenVPN	× Help
	A	If you are importing a profile from an OpenVPN Access Server, log into the server using Safari and click on "user-locked" or "autologin" profile.	
	ø	Using iTunes Sync, select your device, go to OpenVPN under the "apps" tab, and drop your .ovpn and related cert/key files into the file sharing window.	
		If you receive the profile as a .ovpn attachment in the Mail app, you can open it in OpenVPN (Note: this method is less secure).	
	?	More Help	>
	New pro	ofiles are available	
	(1 new OpenVPN profile is available for import.	
	~ 55	vorker1.connectivity-service.insys-icom.de/Tablet	
	More fro	om OpenVPN Technologies	
	P	Your Secure and Private Path to the Internet	>
	R	VPN Solution for your Business	>

 \checkmark The new profile is being imported.

4. Select the profile.

SIM ᅙ	16:09	93 %
out	OpenVPN	He
	2N Connect	
Profile	Autologin profile	>
Status	Disconnected	>
Connection	OFF	
More from Op	penVPN Technologies	
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	N Solution for your Business	>

5. Select "Rename" to rename the profile.

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OpenVPN	Profiles	Rename Delete
we 🚺	rker1.connectivity-service.insys-icom.de/Tablet	✓
	9 b. e	
	Import your Private Tunnel profile	Go
6	Import profile from OpenVPN Access Server	
	Enter Access Server address	Go

6. Assign an appropriate name to the profile and select "Done".

No SIM 🔶	16:09	93 % 🕮
OpenVPN	Profiles	Done Delete
	YS Table Import your Private Tunnel profile Import profile from OpenVPN Access Server Enter Access Server address	Go Go
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- \checkmark The profile is being renamed.
- 7. Select "OpenVPN".

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P	Import your Private Tunnel profile	Go
0	Import profile from OpenVPN Access Server	
	Enter Access Server address	Go

Connectivity Service with this.

Connection Establishment

Establish an OpenVPN connection to the INSYS Connectivity Service now. The following steps are necessary for this:

- Establishing an OpenVPN connection to the INSYS Connectivity Service How to establish an OpenVPN connection to the INSYS Connectivity Service.
- → OpenVPN Connect is installed on the iPad.
- → The profile has been created in OpenVPN Connect.
- → The iPad is connected to the Internet.
- 1. Open OpenVPN Connect.

No SIM ᅙ	16310 On any VDN	93 % 🗖
About	OpenVPN	Help
	pen VPN Connect	
Prof	ile INSYS Tablet Autologin profile	>
Stat	us Disconnected	>
Con	nection OFF	
More	from OpenVPN Technologies	
	Your Secure and Private Path to the Internet	>
9	VPN Solution for your Business	>

2. Slide the switch behind "Connection" to the right.

SIM 🔶 VPN			16:10		93%
pout			OpenVPN		Help
၇ OpenV	PN Connect				
Profile	Autologin p	ablet profile			
Status	Connect	ed			>
Connectio	n ON				
Connection	Details				
Duration	0:00:08	Last packet receiv	ed 2 seconds ag	ю	
Bytes In	4.01 KB	Bytes Out	2.71 KB	-	
VPN IPv6		VPN IPv4	198.18.0.13		
User		Client IP			
Server	worker1.connectiv	ity-service Servei ct P n	.del76.9.162.6		
Port	1173	Protocol	UDPv4		
More from O	penVPN Technolo	ogies			
P Yo	our Secure and P	rivate Path to the Inte	ernet		>
🕥 VF	N Solution for yo	our Business			>

- The OpenVPN connection is being established. Then, the VPN symbol is displayed in the task bar.
 - To close the connection, slide the switch behind "Connection" to the left again.

3 Used Components

Hardware and software

Description	Manufacturer	Туре	Version
Tablet	Apple	iPad 1	-
OpenVPN pa- cket	Open Source	OpenVPN Connect	1.0 or higher
Operating sys- tem	Apple	iOS	5.1 or higher

Table 1: Used hardware and software

4 Further Information

4.1 Literature

OpenVPN Das Praxisbuch ISBN: 978-3-8362-1197-0 Publisher: Galileo Computing

OpenVPN Grundlagen, Konfiguration, Praxis ISBN: 978-3-89864-396-2 Publisher: dpunkt.verlag

4.2 Web Links

OpenVPN Technologies, Inc.: http://www.openvpn.net

OpenVPN e.V.: http://www.openvpn.eu

5 Symbols and Formattings

Uniform formattings and intuitive symbols are meant to help you find and read the information relevant to you. The following text explains the symbols and formattings of this publication and corresponds in its structure with the structure of this publication.

Activity description for 1 to n operations

Use the activity target here to find out the target of this activity and the individual operations, which compose this activity. You can decide whether this activity is relevant to you.

Operation description of 1 to n operations of an activity

Use the operation target here to find out the target of this operation. This operation target is achieved by the following numbered operation steps.

- → An arrow will indicate prerequisites which must be fulfilled to be able to process the subsequent steps in a meaningful way.
- 1. A single operation step describes what you need to do at this point. Arrows describe a sequence for selecting menu items \rightarrow File \rightarrow Print.
 - A result which you will receive after performing an operation step will be marked with a check mark. At this point, you can check if the previous operation step(s) was or were successful.
- 2. An operation step describes an operation to be completed simultaneously.
- 3. Process all steps in the sequence of the numbering.
 - (i) Additional information which you should take under consideration are marked with a circled "i". You are pointed to possible error sources and their avoidance on the one hand here; on the other hand, you will find interesting context and background information about the respective topic.

Console dialogues (e.g. Windows prompts) are highlighted in grey. Your inputs/commands are highlighted in blue. C:\Programme\OpenVPN\easy-rsa>build-key-server SERVER_1

- Alternative results and operation steps are marked with a solid triangle pointing to the right. This will tell you how to reach the same results performing different steps, or what you could do if you didn't reach the expected results at this point.
- 4. Each operation has a last step.
 - ✓ With htis, you have successfully read Symbols and Formattings.

Germany

INSYS icom GmbH Hermann-Köhl-Str. 22 93049 Regensburg Germany

 Phone
 +49 941 58692 0

 Fax
 +49 941 58692 45

 E-mail
 info@insvs-icom.com

E-mail <u>info@insys-icom.com</u> URL <u>www.insys-icom.com</u>

Czech Repulic

INSYS icom CZ, s.r.o. Slovanská alej 1993 / 28a 326 00 Plzen-Východní Předměstí Czech Republic

Phone	+420 377 429 952
Fax	+420 377 429 952
Mobile	+420 777 651 188

E-mail <u>info@insys-icom.cz</u> URL <u>www.insys-icom.cz</u>