



Requirements for VPN access to the EasyGo HUB

**Annex 2.8 to
Joint Venture Agreement
Toll Service Provider Agreement**

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Document: 208
Version: 3.0
Date: 7 December 2018

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Document Revision History

Version	Date	Author	Main changes
1.0	2013.05.02		Approved by SC
2.0	2014.06.16		Approved by ESC
2.1	2018.08.15	JMC	Updated according to 201/203
2.2	2018.08.20	JMC/SR/ASK	General update
2.3	2018.11.30	ASK	Review in 22 November WG2 meeting
3.0	2018.12.07		Approved by ESC

1 Introduction

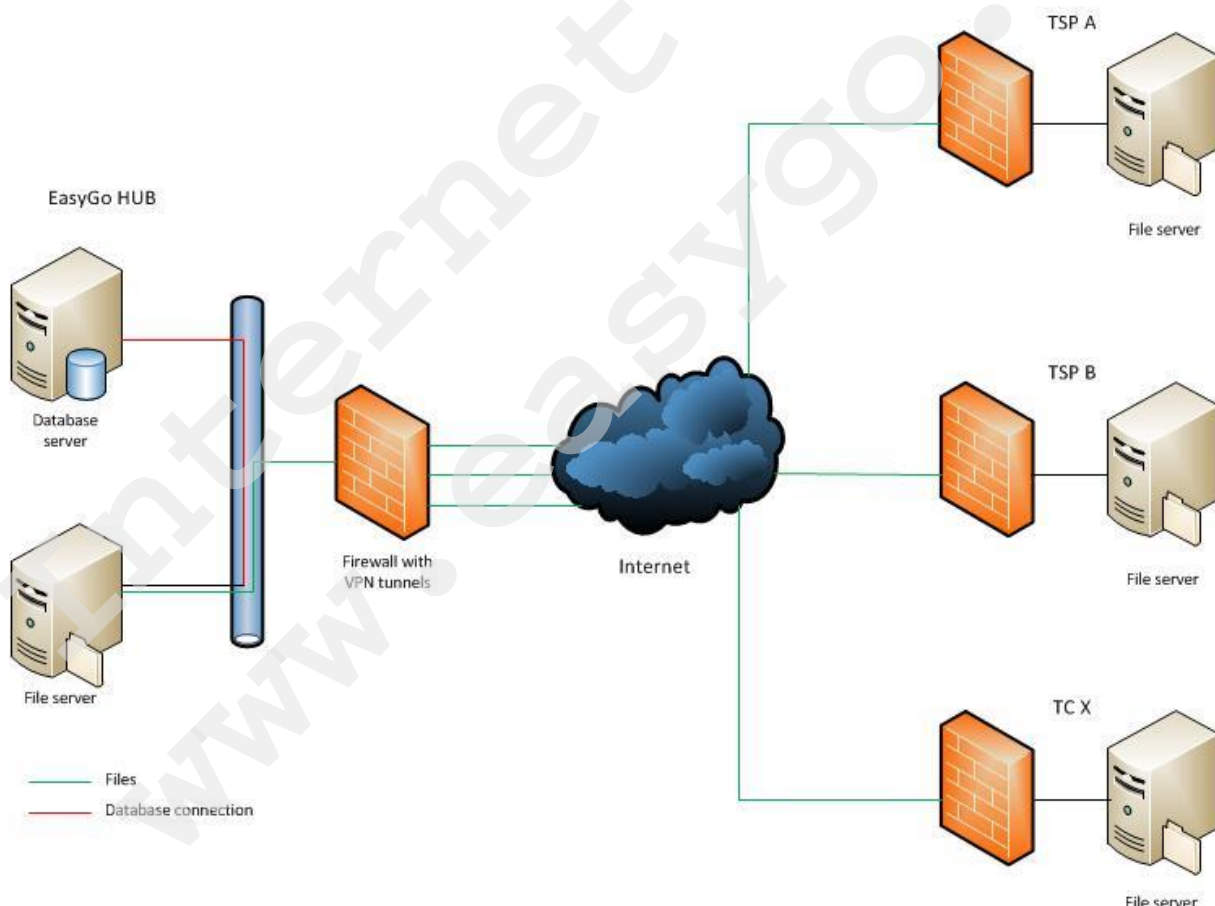
1.1 Purpose of this document

This document describes how to setup the data connection between Toll Service Providers (TSP), Toll Chargers (TC) and the EasyGo HUB in order to ensure that the file exchange takes place as described in document 201 “Requirements for central systems and the EasyGo HUB” and Document 203 “Technical requirements, data formats and interface specifications”.

1.2 Data exchange principles

Data exchange between the EasyGo HUB, TCs and TSPs is based on FTP through an encrypted VPN tunnel. WS_FTP 8.01 is used as FTP server.

The same VPN connection is used to access the TCs/TSPs production environment as well as the test environment but via two different IP-addresses.



Each TC and TSP is connected to the EasyGo HUB and has designated folders for delivering and receiving files. (Identical for both test and production environment). This is described in Document 201 “Requirements for central systems and the EasyGo HUB”.

1.3 Setting up the connection

When an application from a TSP/TC has been approved, the TSP/TC will have to provide the EasyGo HUB secretary with the required data by filling in the forms in sections 3, 4.1 and/or 5.1 in order to start the setup process.

The EasyGo HUB secretary will set up the VPN connection, IP-addresses and set up folders on production and test systems on the EasyGo HUB FTP servers according to Document 201 “Requirements for central systems and the EasyGo HUB”.

When the technical setup of the VPN connection has been executed, the new TSP/TC will be contacted either by the IT department (if technical issues need to be sorted out) or the EasyGo HUB secretary in order to distribute the relevant passwords.

Access to the EasyGo HUB is divided into two steps each protected by individual access control or passwords:

1. Shared secret is used to set up the network VPN connection which gives access from the network of the TSP/TC to the EasyGo HUB FTP network
2. Username and password which give access to folder/s on the FTP server

(It is possible to access multiple FTP accounts with one VPN tunnel to the FTP network provided that the correct username of each folder is used.)

The test procedures shall be in accordance with Document 206 “EasyGo test strategy” and will be agreed upon in each case between TSP/TC and the EasyGo HUB secretary.

1.4 EasyGo HUB contact information

EasyGo HUB Contact information		
A/S Storebælt Vester Søgade 10 1601 Copenhagen V Denmark	Contact person	Joan Carlsen
	E-mail	jmc@sbf.dk
	Phone:	+45 58 30 30 42

IT department Contact information		
A/S Storebælt Vester Søgade 10 1601 Copenhagen V Denmark	Contact person	Finn Belling
	E-mail	fb@sbf.dk
	Phone:	+45 58 30 30 36

Internet
www.easygo.com
COPY

2 Information to be sent to the EasyGo HUB

In sections 3, 4 and 5 TC/TSP will find forms that must be filled in and returned to the EasyGo HUB secretary.

The EasyGo HUB handles several versions of files and it is important that the TCs/TSPs fill in the information according to their type of agreement.

The TC/TSP must fill in the following forms:

- Configuration form for VPN access to the EasyGo HUB - all
- Information about the actor TSP and/or TC

Internet
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3 Configuration form for VPN access to the EasyGo HUB

Information in the **blue** boxes shall be filled in by EasyGo HUB secretary.

Information in the **yellow** boxes shall be filled in by the TC / TSP.

Actor information (to be filled in)		
	Contact person (Technical)	
	E-mail	
	Phone:	
	Actor	

Network information				
	TC / TSP		EasyGo HUB	
VPN vendor				
VPN-access type				
IpSec peer address				
Phase 1 negotian mode				
Phase 1 options (IKE)				
Protocol				
Perfect Forward Secrecy				
Shared Secret				
	TC / TSP		EasyGo HUB	
	IP address	Subnet mask	IP address	Subnet mask
Host IP address or IP subnet (local/remote net)				

Test-system and production system should be entered with different IP-addresses.

Comments

4 File version 130001 - Information about the Toll Service Provider

Information in the **blue** boxes shall be filled in by EasyGo HUB secretary.

Information in the **yellow** boxes shall be filled in by the TSP.

Information in the **green** boxes is optional and should be filled in by the TSP if applicable.

For more details on the below mentioned data fields, refer to document 203.

Field name	Number of characters	Field type	Mandatory/Optional	Value
Actor ID	6	AlphaN	Mandatory	
Actor ID Connected	6	AlphaN	Mandatory	
Actor ID Connected CFC	6	AlphaN	Mandatory	200000
Actor Type	2	AlphaN	Mandatory	30
Actor name	30	AlphaN	Mandatory	
Address	50	AlphaN	Mandatory	
Postal code ¹	6	AlphaN	Mandatory	
Country code ²	3	AlphaN	Mandatory	
Telephone working time ³	15	AlphaN	Mandatory	
Telephone outside working time ³	15	AlphaN	Optional	
Telefax ³	15	AlphaN	Optional	
Mobile phone ³	15	AlphaN	Optional	
Internet – web site	100	AlphaN	Mandatory	
E-mail address ⁴	100	AlphaN	Mandatory	
Customer related contact	30	AlphaN	Mandatory	
Contact– Direct telephone ³	15	AlphaN	Mandatory	
Contact – Direct mobile ³	15	AlphaN	Optional	

¹ For valid postal code formats see www.mapanet.eu/EN/resources/Postal-Format.asp

² According to ISO 3166-1 alpha 2. See http://en.wikipedia.org/wiki/Iso_3166-1

³ Numbers represented with numerals only (without spaces as separators in between digits). For telephone numbers the international prefix shall be included (e.g. 0047....)

⁴ Only valid e-mail-addresses in the form A@A.A

Field name	Number of characters	Field type	Mandatory/Optional	Value
Contact – Direct e-mail ⁴	100	AlphaN	Mandatory	
IT support contact	30	AlphaN	Mandatory	
IT support contact– Direct telephone ³	15	AlphaN	Mandatory	
IT support contact– Direct mobile ³	15	AlphaN	Optional	
IT support contact– Direct e-mail ⁴	50	AlphaN	Mandatory	
Mails from EasyGo HUB ⁵	50	AlphaN	Mandatory	
Administrative contact Financial and data exchange	30	AlphaN	Mandatory	
Administrative contact– Direct telephone ³	15	AlphaN	Optional	
Administrative contact– Direct mobile ³	15	AlphaN	Optional	
Administrative contact– Direct e-mail ⁴	100	AlphaN	Mandatory	
Bank account number	20	AlphaN	Optional	
Description	50	AlphaN	Mandatory	
Date established ⁶	8	AlphaN	Mandatory	
Type of Contract AutoPASS	16	AlphaN	Optional	
VAT-number (Organization number) ⁷	20	AlphaN	Mandatory	
IBAN number ⁸	28	AlphaN	Mandatory	
BIC code ⁹	11	AlphaN	Mandatory	
Postal address (place/city name)	30	AlphaN	Mandatory	
Currency ¹⁰	3	AlphaN	Mandatory	
VAT-number 2 for currency 2 ⁷	20	AlphaN	Optional	
Currency 2 ¹⁰	3	AlphaN	Optional	

⁵ Receives alarms from EasyGo HUB

⁶ Valid date in the format ddmmYYYY

⁷ VAT ID according to http://en.wikipedia.org/wiki/VAT_identification_number

⁸ According to ISO 13616. See http://en.wikipedia.org/wiki/International_Bank_Account_Number

⁹ According to ISO 9362. See http://en.wikipedia.org/wiki/Bank_Identifier_Code

¹⁰ According to ISO 4217. See http://en.wikipedia.org/wiki/ISO_4217

Field name	Number of characters	Field type	Mandatory/Optional	Value
IBAN number currency 2 ⁸	28	AlphaN	Optional	
BIC code currency 2 ⁹	11	AlphaN	Optional	
TC type	1	AlphaN	Mandatory	
TC operational name	30	AlphaN	Optional	
Type of charge *	2	Number	Mandatory	00
Currency 3 ¹⁰	3	AlphaN	Optional	
VAT-number 3 for currency 3 ⁷	20	AlphaN	Mandatory/Optional	
IBAN number currency 3 ⁸	30	AlphaN	Optional	
BIC code currency 3 ⁹	11	AlphaN	Optional	
Currency 4 ¹⁰	3	AlphaN	Optional	
VAT-number 4 for currency 4 ⁷	20	AlphaN	Mandatory/Optional	
IBAN number currency 4 ⁸	30	AlphaN	Optional	
BIC code currency 4 ⁹	11	AlphaN	Optional	
Company registration number	20	AlphaN	Mandatory	

*) Always 00 for TSPs. TCs may fill in correct value or 00

5 File version 130001 - Information about the Toll Charger

Information in the **blue** boxes shall be filled in by EasyGo HUB secretary.

Information in the **yellow** boxes shall be filled in by the TC.

Information in the **green** boxes is optional and should be filled in by the TC if applicable.

For more details on the below mentioned data fields, please refer to Document 203 “Technical requirements data formats and interface specifications”.

Field name	Number of characters	Field type	Mandatory/Optional	Value
Actor ID	6	AlphaN	Mandatory	
Actor ID Connected	6	AlphaN	Mandatory	
Actor ID Connected CFC	6	AlphaN	Mandatory	200000
Actor Type	2	AlphaN	Mandatory	31
Actor name	30	AlphaN	Mandatory	
Address	50	AlphaN	Mandatory	
Postal code ¹¹	6	AlphaN	Mandatory	
Country code ¹²	3	AlphaN	Mandatory	
Telephone working time ¹³	15	AlphaN	Mandatory	
Telephone outside working time ³	15	AlphaN	Optional	
Telefax ³	15	AlphaN	Optional	
Mobile phone ³	15	AlphaN	Optional	
Internet – web site	100	AlphaN	Mandatory	
E-mail address ¹⁴	100	AlphaN	Mandatory	
Customer related contact	30	AlphaN	Mandatory	
Contact– Direct telephone ³	15	AlphaN	Mandatory	
Contact – Direct mobile ³	15	AlphaN	Optional	
Contact – Direct e-mail ⁴	100	AlphaN	Mandatory	

¹¹ For valid postal code formats see www.mapanet.eu/EN/resources/Postal-Format.asp

¹² According to ISO 3166-1 alpha 2. See http://en.wikipedia.org/wiki/Iso_3166-1

¹³ Numbers represented with numerals only (without spaces as separators in between digits). For telephone numbers the international prefix shall be included (e.g. 0047....)

¹⁴ Only valid e-mail-addresses in the form A@A.A

Field name	Number of characters	Field type	Mandatory/Optional	Value
IT support contact	30	AlphaN	Mandatory	
IT support contact– Direct telephone ³	15	AlphaN	Mandatory	
IT support contact– Direct mobile ³	15	AlphaN	Optional	
IT support contact– Direct e-mail ⁴	50	AlphaN	Mandatory	
Mails from EasyGo HUB ¹⁵	50	AlphaN	Mandatory	
Administrative contact Financial and data exchange	30	AlphaN	Mandatory	
Administrative contact– Direct telephone ³	15	AlphaN	Optional	
Administrative contact– Direct mobile ³	15	AlphaN	Optional	
Administrative contact– Direct e-mail ⁴	100	AlphaN	Mandatory	
Bank account number	20	AlphaN	Optional	
Description	50	AlphaN	Mandatory	
Date established ¹⁶	8	AlphaN	Mandatory	
Type of Contract AutoPASS	16	AlphaN	Optional	
VAT-number (Organization number) ¹⁷	20	AlphaN	Mandatory	
IBAN number ¹⁸	28	AlphaN	Mandatory	
BIC code ¹⁹	11	AlphaN	Mandatory	
Postal address (place/city name)	30	AlphaN	Mandatory	
Currency ²⁰	3	AlphaN	Mandatory	
VAT-number 2 for currency 2 ⁷	20	AlphaN	Optional	
Currency 2 ¹⁰	3	AlphaN	Optional	

¹⁵ Receives alarms from EasyGo HUB

¹⁶ Valid date in the format ddmmyyyy

¹⁷ VAT ID according to http://en.wikipedia.org/wiki/VAT_identification_number

¹⁸ According to ISO 13616. See http://en.wikipedia.org/wiki/International_Bank_Account_Number

¹⁹ According to ISO 9362. See http://en.wikipedia.org/wiki/Bank_Identifier_Code

²⁰ According to ISO 4217. See http://en.wikipedia.org/wiki/ISO_4217

Field name	Number of characters	Field type	Mandatory/Optional	Value
IBAN number currency 2 ⁸	28	AlphaN	Optional	
BIC code currency 2 ⁹	11	AlphaN	Optional	
TC type ²¹	1	AlphaN	Mandatory	
TC operational name	30	AlphaN	Optional	
Type of charge *	2	Number	Mandatory	00
Currency 3 ¹⁰	3	AlphaN	Optional	
VAT-number 3 for currency 3 ⁷	20	AlphaN	Mandatory/Optional	
IBAN number currency 3 ⁸	30	AlphaN	Optional	
BIC code currency 3 ⁹	11	AlphaN	Optional	
Currency 4 ¹⁰	3	AlphaN	Optional	
VAT-number 4 for currency 4 ⁷	20	AlphaN	Mandatory/Optional	
IBAN number currency 4 ⁸	30	AlphaN	Optional	
BIC code currency 4 ⁹	11	AlphaN	Optional	
Company registration number	20	AlphaN	Mandatory	

*) 00 – no information

²¹ [TC Type allowed values according to document 203](#)