

FILE EXCHANGE SYNC CLOUD & DROPBOX

016-8000-033EN REV. A

Configuration Manual





PREFACE

This configuration manual is intended for persons responsible for installing File Transfer on a SBGuidance system. The manual contains important instructions that should be complied with when commissioning, operating and servicing the SBGuidance system.

This manual has been compiled with the utmost care. Raven Europe assumes no responsibility for any errors or omissions in this document.

Any comments or questions can be sent to <u>service-</u> <u>eu@ravenind.com</u>.

Raven Europe or any of its suppliers will accept no liability for physical or material damage caused whilst using the SBGuidance system.

The installed Raven Europe system produces less than 70dB (A) noise.

This configuration manual uses a number of concepts for extra attention to a few things:



Tip:

Provides recommendations on how certain activities can be performed much easier.



Please note!:

Indicates certain problems that the user should take note of.



Caution!:

Indicates that the machine can be damaged.



Warning!:

Indicates a risk of injury.



DISCLAIMER

WARNING!

- The safety instructions contained in the manuals of the tractor or implements must be complied with at all times.
- Always switch off the tractor before installing or repairing hydraulic and electrical components of the SBGuidance system.
- It is strictly prohibited to use the SBGuidance system on public roads.
- It is strictly prohibited to leave a driving vehicle unattended when the SBGuidance system is switched on. The driver is always responsible for the direction and course of the vehicle.
- To prevent injury or fire, replace defective fuses only with fuses of the same type and amperage.
- The SBGuidance the operating system is not able to detect and avoid obstacles. If there is an obstacle in your path, you will always need to take action for it to be avoided.
- Only allow authorized/qualified persons to operate the system. Authorized/qualified persons are defined as: persons who have read and understood the manual, have been given instructions by a product specialist, and who are both physically and mentally fit and able to operate the system.
- The system contains moving parts! Make sure the immediate environment is clear of people before operating the system.
- In case of system failure or breakdown switch of the tractor and disconnect the electrical power source to avoid further damage. Contact your dealer for further instructions on how to repair your system.
- Always wear personal protective equipment when operating/adjusting/repairing the system outside of the tractor cab.
- In order to prevent power surges from occurring, always start the machine first, before initiating the SBGuidance control system.

PAY ATTENTION!

- Only touch the touch-screen with your finger or by using a special touch-screen stylus/pen. Operating the touch-screen with sharp objects may cause permanent damage to the screen.
- Always consult your supplier as to which products are best suited first before cleaning the touch-screen with chemicals or alcohol.
- If the terminal is not used for a long period, better remove the terminal from the tractor and store in a heated environment. This will extend the life span of the electronic components.
- To prevent theft, it is better to not let the terminal and GPS-antenna unattended in the tractor on the field.

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1 REQUIRED SOFTWARE

Depending on which terminal is used (Geostar or Viper4), the required software may differ. Below is a predominance of the various possibilities per terminal.

1.1 VIPER 4

For the installation on a Viper 4 terminal there is the possibility to use Sync or Dropbox.

1.1.1 SYNC SOFTWARE

For the required software in the case of using Sync see section 1.2.1

1.1.2 DROPBOX SOFTWARE

For the installation on a Viper 4 terminal, the latest Dropbox version from the Raven Europe website must be used. Place this on a USB drive. The installation procedure will follow later in this manual.

1.1.3 DROPBOX ACCOUNT

Make sure that you have a Dropbox-account available before the installation. If needed, request an account on the Dropbox-website: <u>https://www.dropbox.com/login</u>. Preferably, have a Dropbox-account only for the field exchange application. Then, there is no risk that Dropbox uploads all kind of other Dropbox-folders on your computer and overload the computer with data.

1.1.4 FIELD MANAGER

For the Sync file exchange application, at least Field Manager 4.2.3 is required. This means that the software version 4.x of SBGuidance, Base Manager, Update Manager, Machine Manager and Loader must also be present at the terminal. Check, and update if necessary, whether the Field Manager has version 4.2.3 or higher and whether the other applications are 4.x. If needed, see the update manual on the Raven Europe website.

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1.2 GEOSTAR

For the installation on a Geostar terminal it is only possible to use the Sync software. Dropbox is no longer supported on Geostar terminals.

1.2.1 SYNC SOFTWARE

For the installation at a Viper terminal, the latest Sync version and associated certificates of the Raven Europe website must be used (Figure 1). The installation procedure will follow later in this manual.

1.2.2 SYNC ACCOUNT

Make sure that a Sync account is available for the installation. If you do not already have a Sync account, you can request it from the Sync website: <u>https://www.sync.com/signup</u>. It is desirable to have a separate account for the file exchange application. Then, there is no risk that Sync uploads all kind of other Sync-folders on your computer and overload the computer with data.

1.2.3 FIELD MANAGER

For the Sync file exchange application, at least Field Manager 4.2.3 is required. This means that the software version 4.x of SBGuidance, Base Manager, Update Manager, Machine Manager and Loader must also be present at the terminal. Check, and update if necessary, whether the Field Manager has version 4.2.3 or higher and whether the other applications are 4.x. If needed, see the update manual on the Raven Europe website. Finitermediate Certification Authorities .p7b Trusted Root Certification Authorities.p7b

FIGURE 1 CERTIFICATES

2 INSTALLATION

2.1 PREPARATION INSTALLATION SYNC ON GEOSTAR

(These steps are only necessary if Dropbox has never been installed on the Geostar)

Complete the following steps to install the Sync application on a Geostar 200/250 terminal:

- Open the *Control Panel* by going to *Windows > Settings > Control Panel*. Go to Internet Options there, a screen like in Figure 4 will open.
- 2. Click in Figure 4 on *Certificates*. The screen from Figure 2 will open.
- Go to the *Trusted Root Certification Authorities* tab and click on *Import*. A new screen appears, click in this screen on *next*. The screen from Figure 3 opens. Click in this screen on *Browse*. Select behind *Files of Type; all files*. Afterwards, choose the correct file with the name *Trusted Root Certification Authorities.p7b*. which is already on the USB drive.
- 4. Click on Next (Figure 3) and on Finish.
- After clicking *Finish* a warning message will occur (Figure 5). Click on *Yes*. This warning message will occur about 35 times. Therefore click on *Yes* 35 times. Afterwards the warning message disappears and the message *"the import* was *succesful" appears*.
- Go to the *intermediate Certification Authorities* tab and click on *Import* and *Next*. The screen from Figure 7 appears. Click in this screen on *Browse* and select behind *Files of Type; all files*. Afterwards,

Internet Pro	perties				<u>? ×</u>	
General Se	ecurity Privacy	Content	Connectio	ons Progra	ms Advanced	
Content Advisor Ratings help you control the Internet content that can be viewed on this computer.						
		Ena	ble	Se	ttings	
Certificate	:5					
<mark>e</mark>	Use certificates f	or encrypt	ed connect	tions and ide	entification.	
Cle	ear SSL state	Certi	ficates	Put	olishers	
AutoComp	lete					
	AutoComplete st on webpages an for you.			Se	ttings	
Feeds						
1	Feeds provide up websites that ca Explorer and oth	n be read i	n Internet	Se	ttings	
		Ok		Cancel	Apply	

FIGURE 4 INTERNET PROPERTIES

		horities Trusted Publ
		DST (ABA,ECOM
		Autoridad Certifi
		Autoridad Certifi
	3-7-2009	DST (Baltimore E
Belgacom E-Trust Prim	21-1-2010	Belgacom E-Trus
C&W HKT SecureNet	16-10-2009	CW HKT Secure
C&W HKT SecureNet	16-10-2009	CW HKT Secure
C&W HKT SecureNet	16-10-2010	CW HKT Secure
C&W HKT SecureNet	16-10-2009	CW HKT Secure
Remove		Advanced
es		
		View
	Baltimore EZ by DST Belgacom E-Trust Prim C&W HKT SecureNet C&W HKT SecureNet C&W HKT SecureNet C&W HKT SecureNet Remove	ABA.ECOM Root CA 9-7-2009 Autoridad Certificador 28-6-2009 Autoridad Certificador 29-6-2009 Baltimore EZ by DST 3-7-2009 Belgacom E-Trust Prim 21-1-2010 C&W HKT SecureNet 16-10-2009 C&W HKT SecureNet 16-10-2009 C&W HKT SecureNet 16-10-2009 Remove Remove

FIGURE 2 CERTIFICATES

Certificate Import Wizard	×
File to Import	
Specify the file you want to import.	
File name:	
Bro	owse
Note: More than one certificate can be stored in a single file in the following	6
Note: More than one certificate can be stored in a single file in the following	ronnaus;
Personal Information Exchange- PKCS #12 (.PFX,.P12)	
Cryptographic Message Syntax Standard- PKCS #7 Certificates (.P7B)	
Microsoft Serialized Certificate Store (.SST)	
< Back Next >	Cancel

FIGURE 3 IMPORT CERTIFICATES



choose the correct file with the name Intermediate Certification Authorities.p7b

Click on Next (Figure 8) and on Finish.
 Afterwards the message the "the import was succesful" appears.

	nport Wizard
Certifi	cate stores are system areas where certificates are kept.
Windo	ws can automatically select a certificate store, or you can specify a location for
0	Automatically select the certificate store based on the type of certificate
۲	Place all certificates in the following store
	Certificate store:
	Trusted Root Certification Authorities Browse
	< Back Next > Can

FIGURE 5 IMPORT WIZARD CERTIFICATES

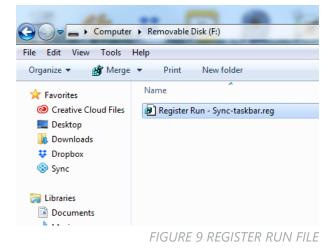
Security	Warning XI
	You are about to install a certificate from a certification authority (CA) claiming to represent:
	ACCVRAIZ1
	Windows cannot validate that the certificate is actually from "ACCVRAIZ1". You should confirm its origin by contacting "ACCVRAIZ1". The following number will assist you in this process:
	Thumbprint (sha1): 93057A88 15C64FCE 882FFA91 16522878 BC536417
	Warning: If you install this root certificate, Windows will automatically trust any certificate issued by this CA. Installing a certificate with an unconfirmed thumbprint is a security risk. If you click "Yes" you acknowledge this risk.
	Do you want to install this certificate?
	Yes No
	FIGURE 6 SECURITY WARNING
Certific	ate Import Wizard
File	to Import Specify the file you want to import.
	File name:
	Browse
	Note: More than one certificate can be stored in a single file in the following formats:
	Personal Information Exchange- PKCS #12 (.PFX,.P12)
	Cryptographic Message Syntax Standard- PKCS #7 Certificates (.P7B)
	Microsoft Serialized Certificate Store (.SST)
	< Back Next > Cancel
	FIGURE 7 IMPORT WIZARD

rtificate Import Wizard
Certificate Store
Certificate stores are system areas where certificates are kept.
Windows can automatically select a certificate store, or you can specify a location for
\bigcirc Automatically select the certificate store based on the type of certificate
Place all certificates in the following store
Certificate store:
Intermediate Certification Authorities Browse
,
< Back Next > Cancel

FIGURE 8 IMPORT WIZARD CERTIFICATES

2.2 INSTALLATION SYNC (GEOSTAR/VIPER4)

- (This step is only for Viper 4). For Sync installation on a Geostar go to step 2. Place the file "Register Run – Sync-taskbar.reg" on a USB drive. Insert the USB drive in the terminal and press ALT + SBGuidance. Go to the USB drive (Figure 9). Doubleclick on the file "Register Run – Sync-taskbar.reg" and go back to the Loader.
- Make sure the terminal has an internet connection. Start SBGuidance once before you continue the Sync installation. The Windows time is then synchonised with the GPS time. Double click the Sync-installer.exe (on USB drive). An initialization screen will appear (Figure 10).
- 3. After a few minutes a new screen appears (Figure 11). Choose "Create a new Sync account" if you do not already have a Sync account. If you already have a Sync account select "Use an existing Sync Account" and click *next*. Enter the email address and password of the Sync account in this screen (Figure 12) and click *next*. Then click on "I agree to the Sync.com Terms Of Service" and click *next*.
- 4. Adjust the Sync folder location by clicking *browse*. Sync folder must be in (Figure 16):
 - a. Geostar: C:\Documents and Settings\Administrator
 - b. Viper4: C:\Users\User



Fetching Latest Version of Sync	×
Downloading from sync.com	
Remaining time: unknown	
Ca	ancel

FIGURE 10 SYNC INSTALLATION

nc Setup		×
	Welcome to Sync! Create a new account, or use an existing account if you've already signed up and want to place your Sync folder on this computer.	_
	⑦ Create a new Sync account, ⑦ Use an existing Sync account on this computer.	
လ္မွာ sync .com		
	<back next=""> Cancel</back>	

FIGURE 11 SYNC SETUP

Sync Setup		×
	Login to Sync.com	
	Please enter the email (username) and password of your Sync account. Email: example.com	
	Password:	
လ္မွာ sync .com		
	< Back Next > Cancel	_
		_//,

FIGURE 12 SYNC ACCOUNT

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Please note!

Make sure that step 4 is executed correctly, if this is not the case this will cause problems later in the configuration process.

- Click Next. The installation is shown to be completed. Two options can be enabled at the bottom of the screen. Install updates automatically and Send error and debug messages to Sync. Uncheck both these options and click Finish.
- 6. If this is the first computer to use this Sync account, add a folder named "SBG" in the Sync folder on the terminal. A folder with the name "Export" must be added to this SBG folder. If the Sync account has already been used on other computers or terminals, only this folder structure needs to be checked. The Sync folder is located in the following location:
 - c. Geostar: C:\Documents and Settings\Administrator
 - d. Viper4: C:\Users\User

When using a Viper, the installation is finished. Restart the terminal and start SBGuidance once to start synchronization.

- <u>(From here only applicable to Geostar).</u> Click the Sync icon at the bottom right of the Windows screen. If the Sync symbol is not available, close the SBGuidance Loader by pressing Alt + F4 on the keyboard. Click on *Preferences* to open the Sync.com Control Panel (Figure 13).
- Under the "Options" tab, all options must be checked except the "Show Desktop Notifications" option (Figure 14).

ync Setup		×		
Sync Folder Location During installation a Sync folder is placed on your computer. Files you place inside the Sync folder will be backed up to the cloud and synce any other computers you've installed Sync on.				
	Sync folder location: C:\Documents and Settings\Administrator Browse Device name: SBG-T023	1		
လ္မွာ sync .com				
	< Back Next > Cancel			

FIGURE 16 SYNC FOLDER LOCATION

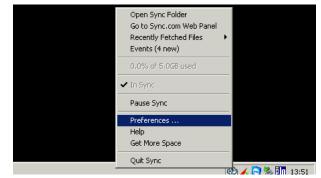


FIGURE 13 SYNC PREFERENCES

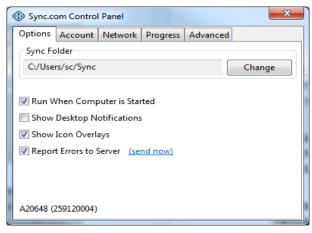


FIGURE 14 SYNC OPTIONS

-	😵 Sync.co	om Control	Panel			×
	Options	Account	Network	Progress	Advanced	
	Folders	to Sync				
		Sync 🚺 SBG				
	Re	set				Apply

FIGURE 15 SYNC ADVANCED

- 9. Go to the *Advance* tab and make sure that only the SBG folder is checked under the Sync folder (Figure 15). This is to prevent too much data on the terminal.
- In case Sync is used as a replacement for Dropbox, Dropbox must be uninstalled.
 Go to: "Start>> Programs >> Dropbox>> Uninstall Dropbox" and follow the steps on the screen.
- 11. Restart the terminal and start SBGuidance to start synchronization.

2.3 INSTALLATION DROPBOX (ONLY FOR VIPER 4)

Take for the Geostar computer the following steps to install the Dropbox-application:

- Start SBGuidance one time before installation. The Windows time is correctly set after this process.
- 2. Copy the Dropbox installer to the *My Documents* folder of the field computer.
- Double click the Dropbox installer. A setup wizard will run automatically. After a couple of minutes a new screen appears (Figure 17).
- 4. Fill in the email address and password of the Dropbox-account (Figure 17). After a while a new screen appears (Figure 18)
- 5. If this is the first computer on which your Dropbox account is used, a folder with the name 'SBG' should be added in the Dropbox folder on your computer. In this SBG folder a folder with the name 'Export' should be added. If the Dropbox account is used before on other computers just check

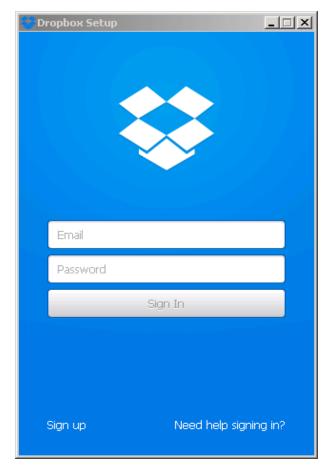


FIGURE 17 DROPBOX SETUP

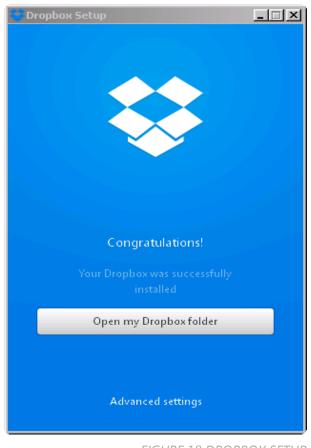


FIGURE 18 DROPBOX SETUP



the folder structure in the Dropbox folder. In the following folder on the computer you can find the Dropbox-folder: Local Disk C: > Users > User.

- 6. Click in the screen *advanced settings*. A new screen will appear (Figure 19).
- 7. Click in this screen on *Change settings*. A new screen will appear (Figure 20).
- Select in this screen only the SBG folder. The remaining folders should not be selected to prevent too much data on the Viper 4 computer (Figure 20).
- 9. Restart the terminal and start SBGuidance to start synchronization.

2.3.1 ERROR MESSAGE DURING INSTALLATION

During the installation of Sync Cloud on a GeoStar terminal the following error message can show up: *Sync-taskabar Error, Execution of command 'taskkill.exe /f /m sync-worker.exe' failed*

Copy the file "TASKKILL.EXE" from the USB drive to c:\Windows\system32\

Copy the file "Taskkill activation.bat" from the USB drive to My Documents. Double click on this file.

Reboot the system and continue the installation.



FIGURE 19 DROPBOX SETUP

Dropbox Setup
Advanced settings
Selective Sync
Only checked folders will sync to this computer.
Image: Second state of the second
Help Update Cancel
Open my Dropbox folder
oben mà probrox router

FIGURE 20 DROPBOX SETUP

INSTALLATION | FILE EXCHANGE | SYNC CLOUD & DROPBOX



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