# Condor 2 with iGlide

Jan Ahlers // Hamburg // April 27, 2020 // v0.3

No guarantees for correctness or liability for issues resulting from adapting these settings! Let me know any questions or ideas for improvement at jan.ahlers@web.de

Please note that I am not an expert for NMEA data streams, serial ports, iGlide tweaking etc. :-) ...just a pilot, who wanted to use iGlide with Condor ;-)

### Configuring iGlide

- Find the IP address of the computer on which Condor 2 is running:
  - Start the Command Prompt (to locate, e.g. type "cmd" in Windows file search)



• Execute the "ipconfig" command and note the IPv4 address (marked in yellow in the example below)



- Start iTunes and connect to the iPhone or iPad on which iGlide is installed
- Select "File Sharing"
- Look for "iGlide" in the "Apps" listing and then move the file "config.xml" to the Windows desktop with drag & drop

<	$\rightarrow$			JCA iPhone				
	JCA iPhone	File St	naring	sfer documents betwe	een vo	ur iPhone and this computer		
Settin	js		noted below can dans					
	Summary	Apps			ıGli	de lite Documents		
5	Music			^		aircrafts	4 KB	21.07.2018 14:24
	Films	$\mathbf{x}$	FlightLink		1	asp	4 KB	21.07.2018 17:43
	TV Programmes		5		•	config.xml	16 KB	Yesterday 20:38
6	Photos	est.	GaragoBand			downloaded_flights	zero KB	21.07.2018 14:23
í	Info		Garagebariu		1	flights	144 KB	09.07.2019 14:57
Å	File Sharing				-	navbox_config.xml	4 KB	Yesterday 18:24
			GeoViewer			Routes.aip	8 KB	Yesterday 20:38
	Device	are			-	styles.xml	20 KB	14.10.2016 12:24
	Music	201-1	GoPro			wpt	zero KB	21.07.2018 14:23
	Films							
	TV Programmes		iGlide lite					
	Books							
	Audiobooks		iMovie					
Ŵ	Tones							
			iNet					
			inter	_				
			Kaunata					
			Keyhote					
			Kindle					
		Photos	Аррз	Documents & Data	L.	55,26 GB Free		Sync Done

- Open the file "config.xml" with a text editor
- Look for the section "<CONNECTIONS>" and insert the previously noted IP address under "<WIFI\_HOST>" as shown below; save the file

<connections></connections>
<simulator_enable>FALSE</simulator_enable>
<flytecsensor_enable>FALSE</flytecsensor_enable>
<pre><bluetooth_nmea_enable>FALSE</bluetooth_nmea_enable></pre>
<pre><bluetooth_nmea_usewind>TRUE</bluetooth_nmea_usewind></pre>
<pre><bluetooth_nmea_invertwind>FALSE</bluetooth_nmea_invertwind></pre>
<pre><bluetooth_nmea_useclimbrate>TRUE</bluetooth_nmea_useclimbrate></pre>
<pre><bluetooth_nmea_usepressurealt>TRUE</bluetooth_nmea_usepressurealt></pre>
<pre><bluetooth_nmea_pressurealtisqnh>FALSE</bluetooth_nmea_pressurealtisqnh></pre>
<wifi_password></wifi_password>
<wifi_enable>FALSE</wifi_enable>
<pre><butterfly_vario_enable>FALSE</butterfly_vario_enable></pre>
<wifi_host><mark>192.168.178.28<!--</mark-->WIFI_HOST&gt;</mark></wifi_host>
<wifi_port>2000</wifi_port>
<wifi_usewind>TRUE</wifi_usewind>
<wifi_invertwind>FALSE</wifi_invertwind>
<wifi_uselivewind>FALSE</wifi_uselivewind>
<wifi_useclimbrate>TRUE</wifi_useclimbrate>
<pre><wifi_usepressurealt>TRUE</wifi_usepressurealt></pre>
<wli></wli>

- Move "config.xml" back into iTunes via drag & drop (into the same location it was previously copied from) and select "Replace"
- Sync iTunes with the iPhone or iPad

- Start iGlide on the iPhone or iPad
- Settings → Interfaces and Sensors
- Set a password of your choice for "AIR Connect" (it is not needed elsewhere in this context, it is just required to activate "AIR Connect"; minimum 5 characters)



• Activate "AIR Connect" (status still shows "Inactive", that's normal)



#### Installing & configuring program "HW Virtual Serial Port"

- Download the free tool for setting up a virtual COM port at <u>https://www.hw-group.com/software/hw-vsp3-virtual-serial-port</u> (Single version)
- $\circ$  ~ Install on the same computer as Condor 2 ~
  - If prompted whether firewall exceptions shall be set, approve
- Start program "HW Virtual Serial Port"
- Login in with "admin" (standard)
- Tab Settings: remove all checks except:
  - TCP Server Mode
  - Purge Buffers when port is opened

斄 HW Virtual Serial Port - HW VSP3 (Admin access)	– 🗆 X
UDP Search   Virtual Serial Port Settings   Advanced   About	
Settings         Log Enabled         Create VSP Pott when HW VSP Start-up         ▼ TCP Server Mode         ▼ Purge Buffers when Pott is Opened         Connect to Device even if Virtual COM is closed         Use NOP to Keep Connection         ■ Renew Automatically         NVT Enabled         ■ Remote Port Setup	? Show Online Help
Keep Connection     Strict Baudrate Emulation     Close Inactive Connection in 10     minutes     Save Settings to INI file	역 Login

#### • Tab Virtual Serial Port:

- COM3
- IP: 0.0.0.0
- Port: 2000

JDP Search	Virtual Serial F	Port Set	rs (Admin acc tings   Advanc	ed   Abou	it ]		_	
- General							Port	
COM3	•	<==>	0.0.0.0			•	: 2000	
🕅 Externa	al NVT Commar	nds Port:	2003					
VSP								
Status:	Deleted			Statu	s: Closed			
Baud:								
Bits:				Cour	ters			
Parity:					VSP:	LAN:	QUEUE	2
Stopbits:				Bx:	853859	0	0	
				Tx	0	853859	0	
Handflow:								

- Click "Create COM"
- Wait until VSP status switches to "Created" and LAN status switches to "Connected"
- Keep this program running during your Condor 2 session, minimize if needed

## Configuring Condor 2

- Start Condor 2
- Setup  $\rightarrow$  Options  $\rightarrow$  NMEA Output
  - o Enable
  - Port: COM3

Instruments	Miscellaneous	NMEA output
Units Metric V	Language English V	- Enable
Altimeter setting QNH / MSL  V	Default FOV: 80 deg	Port COM3 V
Vario time constant	Auto view panning	
1.0 s 🗸 🗸		Smoke options
EVario time constant	View smoothing	
1.0 s 🗸		Color
Averager time constant	Vertical view center	
30 s 🗸	Screenshots type	Realistic

- Start a flight
- Check proper functionality:
  - In the program "HW Virtual Serial Port"
    - Tab Virtual Serial Port, section Counters:
      - Rx VSP should be incrementing
      - Tx LAN should be incrementing
  - $\circ \quad \text{In iGlide} \quad$ 
    - iGlide should show "Connected" in Settings → Interfaces and Sensors → AIR Connect
    - Your plane should appear on the map in the place Condor 2 has put you ;-)

Enjoy your flight!