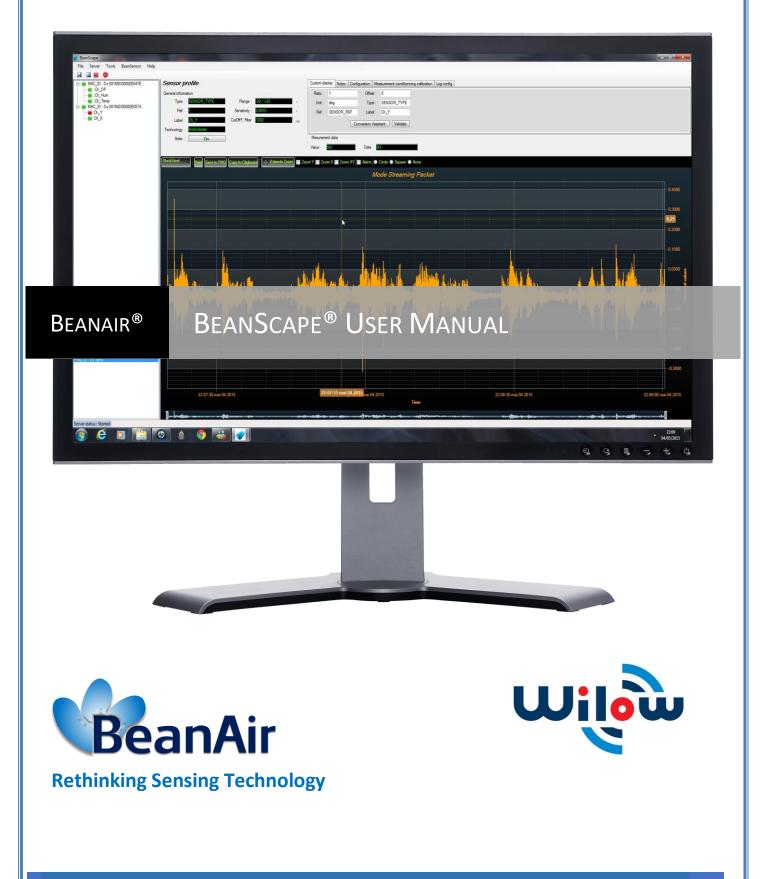
Wilow<sup>®</sup> wireless



# Version 1.3.1



## BeanScape<sup>®</sup> Wilow<sup>®</sup> User Manual

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1.0	12/01/2017	Youssef Shahine	First version of BeanScape <sup>®</sup> willow <sup>®</sup> document
1.1	27/03/2018	Aymen Jegham	Updated figures and new features
1.2	07/07/2018	Youssef Shahine	<ul> <li>Data analysis tool moved to BeanDevice<sup>®</sup> Wilow<sup>®</sup> User Manual</li> <li>BeanScape<sup>®</sup> Wilow<sup>®</sup> RA added</li> </ul>
1.3	18/08/2018	Aymen Jegham	Firewall exceptions added
1.3.1	08/05/2019	Mohamed Bechir Besbes	Weblinks update

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#### **1. TECHNICAL SUPPORT**

For general contact, technical support, to report documentation errors and to order manuals, contact *Beanair Technical Support Center* (BTSC) at:

#### tech-support@Beanair.com

For detailed information about where you can buy the Beanair equipment/software or for recommendations on accessories and components visit:

#### www.Beanair.com

To register for product news and announcements or for product questions contact Beanair's Technical Support Center (BTSC).

Our aim is to make this user manual as helpful as possible. Keep us informed of your comments and suggestions for improvements.

Beanair appreciates feedback from the users of our information.

# 2. VISUAL SYMBOLS DEFINITION

Symbols	Definition
	<u>Caution or Warning</u> – Alerts the user with important information about Beanair wireless sensor networks (WSN), if this information is not followed, the equipment /software may fail or malfunction.
	<u>Danger</u> – This information MUST be followed if not you may damage the equipment permanently or bodily injury may occur.
1	<u>Tip or Information</u> – Provides advice and suggestions that may be useful when installing Beanair Wireless Sensor Networks.

BeanScape<sup>®</sup> Wilow<sup>®</sup> User Manual

# 3. ACRONYMS AND ABBREVIATIONS

AES	Advanced Encryption Standard
ССА	Clear Channel Assessment
CSMA/CA	Carrier Sense Multiple Access/Collision Avoidance
GTS	Guaranteed Time-Slot
kSps	Kilo samples per second
LLC	Logical Link Control
LQI	Link quality indicator
LDCDA	Low duty cycle data acquisition
МАС	Media Access Control
PAN	Personal Area Network
PER	Packet error rate
RF	Radio Frequency
SD	Secure Digital
WSN	Wireless sensor Network

# 4. RELATED DOCUMENTS & VIDEOS

In addition to this User manual, please consult the related application notes, technical notes and videos:

Document name (Click on the web link)	Related product	Description
Data acquisition modes available on the BeanDevice® Wilow®	Wilow <sup>®</sup> products	Data acquisition modes available on the BeanDevice® Wilow
BeanDevice Wilow battery life in streaming mode	Wilow <sup>®</sup> products	Wilow wireless sensors battery life in streaming mode
MQTT SPECIFICATION PAPER	Wilow <sup>®</sup> products	MQTT Communication Protocol for a seamless integration into a third-party IOT software
BUILDING A RELIABLE WIFI NETWORK WITH WILOW® SENSORS	Wilow <sup>®</sup> products	MQTT Communication Protocol for a seamless integration into a third-party IOT software

## 4.1 TECHNICAL NOTES

## 4.2 RELATED VIDEOS

All the videos are available on our YouTube channel

Beanair video link (YouTube)	Related products
Getting started with BeanDevice® Wilow - Wi-Fi Low Power Sensors	Wilow <sup>®</sup> products
<u>Wilow - Wi-Fi Sensors-Diagnostic cycle on BeanDevice®</u> <u>Wilow</u>	Wilow <sup>®</sup> products
Wilow - Wi-Fi Sensors-Low duty cycle data acquisition mode on BeanDevice® Wilow	Wilow <sup>®</sup> products

Wilow - Wi-Fi Sensors-Streaming mode with continuous monitoring on BeanDevice® Wilow	Wilow <sup>®</sup> products
Wilow - Wi-Fi Sensors-How to setup Wilow Datalogger	Wilow <sup>®</sup> products
<u>Wilow - Wi-Fi Sensors-Downloading data logs - Wilow</u> <u>IOT sensors</u>	Wilow <sup>®</sup> products
Wilow - Wi-Fi Sensors- Datalogger memory configuration	Wilow <sup>®</sup> products
Wilow - Wi-Fi Sensors-NTP Net Time Protocol configuration	Wilow <sup>®</sup> products
Wilow - Wi-Fi Sensors-Smart Shock Detection (SSD) mode	Wilow <sup>®</sup> products
Wilow - Wi-Fi Sensors- Log file overview	Wilow <sup>®</sup> products
<u>Wilow - Wi-Fi Sensors- Power modes</u>	Wilow <sup>®</sup> products
Wilow - Wi-Fi Sensors-Store & forward+	Wilow <sup>®</sup> products
Wilow - Wi-Fi Sensors-Commissioning mode	Wilow <sup>®</sup> products
Wilow - Wi-Fi Sensors-Alarm Mode	Wilow <sup>®</sup> products

# 5. DOCUMENT ORGANIZATION

System Overview	<ul> <li>Quick overview of BeanScape<sup>®</sup> software</li> </ul>
Hardware and software compatibility	<ul> <li>Details Hardware/Software compatibility with different windows OS</li> <li>Minimum PC configuration</li> </ul>
Installing/Uninstalling BeanScape <sup>®</sup> Wilow <sup>®</sup> software	• Describes how to install/unisntall your BeanScape <sup>®</sup> Wilow <sup>®</sup> software
Start your application	<ul> <li>Describes network configuration, Beandevice<sup>®</sup> configuration before to start the BeanScape<sup>®</sup> software and rirewall configuration</li> </ul>
Appendices	<ul> <li>Advanced System configuration from BeanScape<sup>®</sup> software</li> </ul>

Wilow<sup>®</sup> wireless

### 6. SYSTEM OVERVIEW



BeanScape<sup>®</sup> Wilow<sup>®</sup> software is suitable for monitoring and configuring Beanair Wi-Fi sensors. It is designed to provide a high level of flexibility and efficiency.

BeanScape<sup>®</sup> Wilow<sup>®</sup> provides the following features:

- ✓ Monitoring BeanScape<sup>®</sup> Wilow<sup>®</sup> Wi-Fi sensors.
- Displaying configured alarms of different Wi-Fi sensors.
- ✓ Sensors calibration and configuration
- ✓ OTAC (Over-the-air-configuration)
- Data and diagnosis analysis through curves and statistics
- ✓ Ability to store measurements and diagnostic information in a database as a LOG file
- ✓ Tools for optimizing the installation of Wi-Fi sensors

The BeanScape<sup>®</sup> Wilow<sup>®</sup> is a powerful software tool with client/server architecture. This implies that the network sensor communicates with the BeanScape<sup>®</sup> Wilow<sup>®</sup> through Wi-Fi. The BeanScape<sup>®</sup> acts as the server

and the BeanDevice® Wilow® acts as the client.

Beanair <sup>®</sup> Wi-Fi network is comprised of Wi-Fi sensors (BeanDevice<sup>®</sup> Wilow<sup>®</sup>) and Wi-Fi Router, access point, repeater or Hotspot.

FEATURES	BeanScape with Manager	BeanScape' wile Basic	BeanScape willow Premium
Number of handled wireless sensor networks	Unlimited	Unlimited	Unlimited
Number of BeanDevice®	Unlimited	Unlimited	Unlimited
Real time database	YES	YES	YES
GUI(Graphical user interface)	NO	YES	YES
Free of cost ?	YES	NO	NO
Data analysis(FFt,DIN4150-3,)	NO	NO	YES

Figure 1 : the different versions of BeanScape<sup>®</sup> Wilow<sup>®</sup> software

BeanScape<sup>®</sup> Wilow<sup>®</sup> manager is not provided with a real-time graph display.

Beanair GmbH

# 7. HARDWARE & SOFTWARE COMPATIBILITY

#### 7.1 COMPATIBLE OPERATING SYSTEMS

Operating Systems	Compatibility	Tested/Certified
Windows XP	Yes	Yes
Windows Vista	Yes	Yes
Windows 7 (32-bit)	Yes	Yes
Windows 7 (64-bit)	Yes	Yes
Windows 8 (32-bit/64-bit)	Yes	Yes
Windows 8.1 (32-bit/64-bit)	Yes	Yes
Windows 10(32-bit/64-bit)	yes	yes

The BeanScape® Wilow® is compatible with many operating systems:

#### Table 1: Compatible operating systems

Operating Systems	BeanScape® Wilow® Manager <u>(Streaming</u> <u>mode not enabled</u> )	BeanScape® Wilow® ( <u>Streaming mode not</u> <u>enabled</u> )	BeanScape® Wilow® ( <u>Streaming_mode</u> <u>enabled</u> )
СРИ	2.330	GHz or faster x86-compatible pr	ocessor
RAM memory	1 GB	2 GB	4 GB
Disk Space	5 GB	5 GB	10 GB
Graphic card	128 MB	128 MB	1 GB

#### 7.2 RECOMMENDED MINIMUM CONFIGURATION

Table 2: Recommended minimum configuration

# 8. INSTALLING/UNINSTALLING BEANSCAPE® WILOW® SOFTWARE

#### 8.1 INSTALLING YOUR BEANSCAPE® WILOW®

Installing the BeanScape® Wilow® software is very easy:

✓ Double click on "setup.exe" file (shown below) to launch BeanScape®



- ✓ When installing the software, a location for the log files is requested. These files are used to store all the data coming from the Wireless Sensor Network (information about the Network diagnostic, data acquisition of different wireless sensors, network acknowledgment etc.).
- ✓ Click Finish to complete the installation of **BeanScape® Wilow®**.
- ✓ The installation is now complete; the **BeanScape**<sup>®</sup> **Wilow**<sup>®</sup> shortcut icon is now available on your desktop.

#### 8.2 UNINSTALLING BEANSCAPE® WILOW®

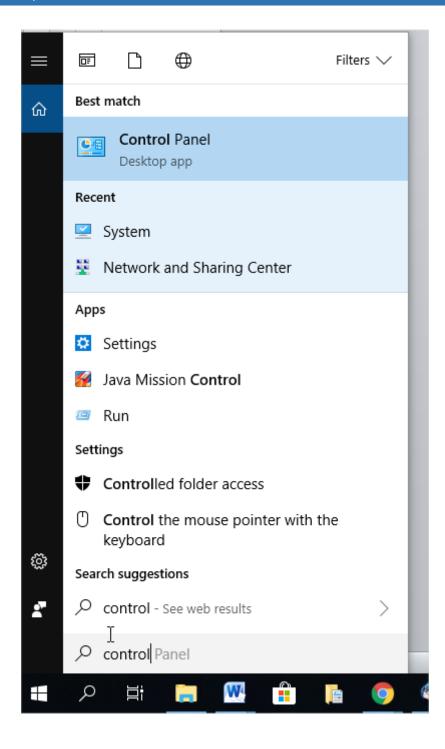
To uninstall BeanScape® Wilow®, follow these instructions:

## 1. Click

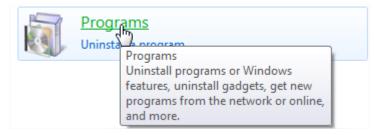
2. Then search for control panel







3. Double click on uninstall a program under the Programs icon



4. You will see the following window:

#### BeanScape® Wilow® User Manual

#### Wilow<sup>®</sup> wireless

00						
<-(-)-	12 F	Control Panel	•	Programs	,	Programs and Features

ntrol Panel Home						
	Uninstall or change a program					
installed updates	To uninstall a program, select it from the list a	nd then click Uninstall, Change, or Repair.				
Windows features on or						
	Organize 🔻					8
	Name	Publisher	Installed On	Size	Version	
	Adobe Creative Cloud	Adobe Systems Incorporated	09/05/2017	253 MB	4.0.1.188	
	Adobe Flash Player 10 ActiveX	Adobe Systems Incorporated	30/05/2017		10.0.12.36	
	Adobe InDesign CC 2017 (32-bit)	Adobe Systems Incorporated	09/05/2017	947 MB	12.1.0	
	Altium Designer 17	Altium Limited	11/08/2017	2.50 GB	17.1.5.472	
	Andy OS	Andy OS, Inc	05/06/2017		46.16	
	Any Video Converter Ultimate 6.0.8	Any-Video-Converter.com	10/02/2017	155 MB		
	AVG AntiVirus FREE	AVG Technologies	20/10/2017		17.7.3032	
	AVG Web TuneUp	AVG Technologies	07/02/2017		4.3.7.452	
	Bandicam	Bandicam.com	09/02/2017	40.9 MB	3.3.2.1195	
	Bandicam MPEG-1 Decoder	Bandicam.com	09/02/2017			
	BeanAir Battery Simulator		05/04/2017	59.6 MB		
	Boris Graffiti for Corel	Boris FX, Inc.	29/05/2017		5.40.0700	
	ByteFence Anti-Malware	Byte Technologies LLC	18/10/2017		3.14.0.10	
	COMSOL Multiphysics 5.1	COMSOL	08/03/2017		5.1.0.234	
	Corel VideoStudio Pro X4	Corel Corporation	30/05/2017	820 MB	14.0.0.342	
	Corel VideoStudio Ultimate X5	Corel Corporation	29/05/2017	1.41 GB	15.0.0.258	
	DriverDoc	Solvusoft Corporation	06/02/2017		1.3.2	
	femm 4.2 12Jan2016		09/03/2017	10.3 MB		
	FileZilla Client 3.26.2	Tim Kosse	14/06/2017	23.9 MB		
	Free Screen Video Recorder	Digital Wave Ltd	09/02/2017		3.0.45.1027	
	Freemake Video Converter version 4.1.9	Ellora Assets Corporation	10/02/2017	98.0 MB		
	Google Chrome	Google Inc.	19/01/2017		62.0.3202.94	

5. Select BeanScape<sup>®</sup> Wilow<sup>®</sup> and click



- 6. Follow the steps for uninstalling.
- 7. Uninstall is now complete.

### 9. START YOUR APPLICATION

#### 9.1 NETWORK CONFIGURATION

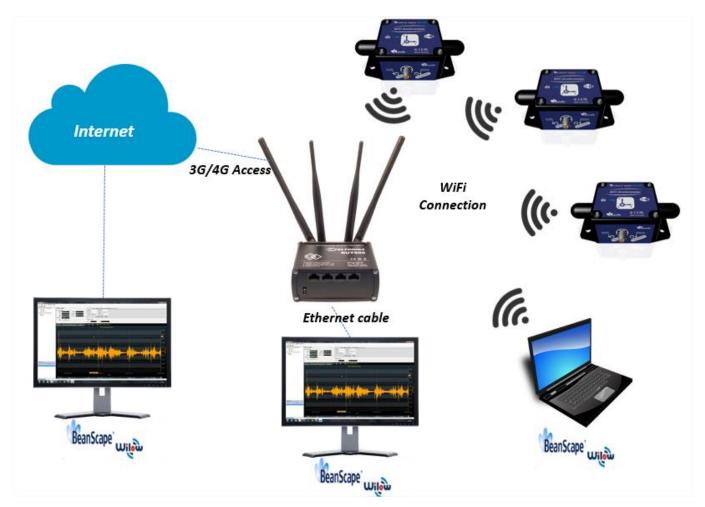


Figure 3: Typical BeanDevice® Wilow® Wi-Fi Network

BeanDevice<sup>®</sup> Wilow<sup>®</sup> is Wi-Fi powered sensor that will communicate measurements and receive configuration commands through Wi-Fi signal.

After installing BeanScape<sup>®</sup> Wilow<sup>®</sup> supervision software we can start configuring our sensor connecting them to the Wireless network.



Different other network configurations are possible, please visit our: Technical note: building a reliable Wi-Fi network with Wilow sensors ,

User Manual: <u>BEANDEVICE® WILOW®</u> (WIFI LOW POWER) USER GUIDE

#### 9.2 BEANDEVICE® WILOW® CONFIGURATION

Before to connect the **BeanDevice® Wilow®** to the Wi-Fi network we have to follow the next steps:

- 1. Launch your *BeanScape® Wilow®* as administrator
- 2. Power your *BeanDevice® Wilow* by holding the magnet on the ON/OFF label, you will see the Network led blinking in green color
- 3. Select Tools on the BeanScape menu and choose "LAN/WAN Config"

File Server Tools Help Options Alarm Ale		
Alarm Ale		
	rt	
Custon	ser Configuration	
SntpClien	t	

4. The following window will pop up :

BeanScape <sup>®</sup> Wilow <sup>®</sup> User Manual	Wilow <sup>®</sup> wireless
<ul> <li>Wilow Wlan/LAN configuration</li> <li>Configuration port selection</li> <li>Serial port</li> <li>Select serial port</li> <li>Serial port : </li> </ul>	EAN/WLAN LAN/WLAN config Select > Localize Empty >
Configurations Tcp/IP configuration UDCP Enabled UVilow Tcp/IP IP address : Sub network mask : Default gateway IP : Default gateway IP : BeanScape Port : 5313 IP address : Domain name : Validate Validate NNS Enabled DNS IP Auto. DNS IP address :	Wfi configuration   Enabled   Password :   security type :   Validate

5. On LAN/WLAN Config select your PC IP Address sharing the same WIFI Hotspot/Access Point which will be connected to your BeanDevice<sup>®</sup> Wilow<sup>®</sup>

Serial port : < Select > <	/LAN config
169.25	
192.16	4.190.60 3.1.112 ▼
Configurations 192.16	8.1.51

6. After selecting the right IP Address, the field "TCP/IP configuration is automatically filled out

BeanScape® Wilow® User Manual		
	Configurations Tcp/IP configuration	
	DHCP Enabled	
	Wilow Tcp/IP	
	IP address :	192.168.1
	Sub network mask :	255.255.255.0
	Default gateway IP :	192.168.11_
	BeanScape	
	Port :	5313
	IP address :	192.168.151_
	Domain name :	
		Validate
	DNS Enabled DN	IS IP Auto.
	DNS	
	IP address :	

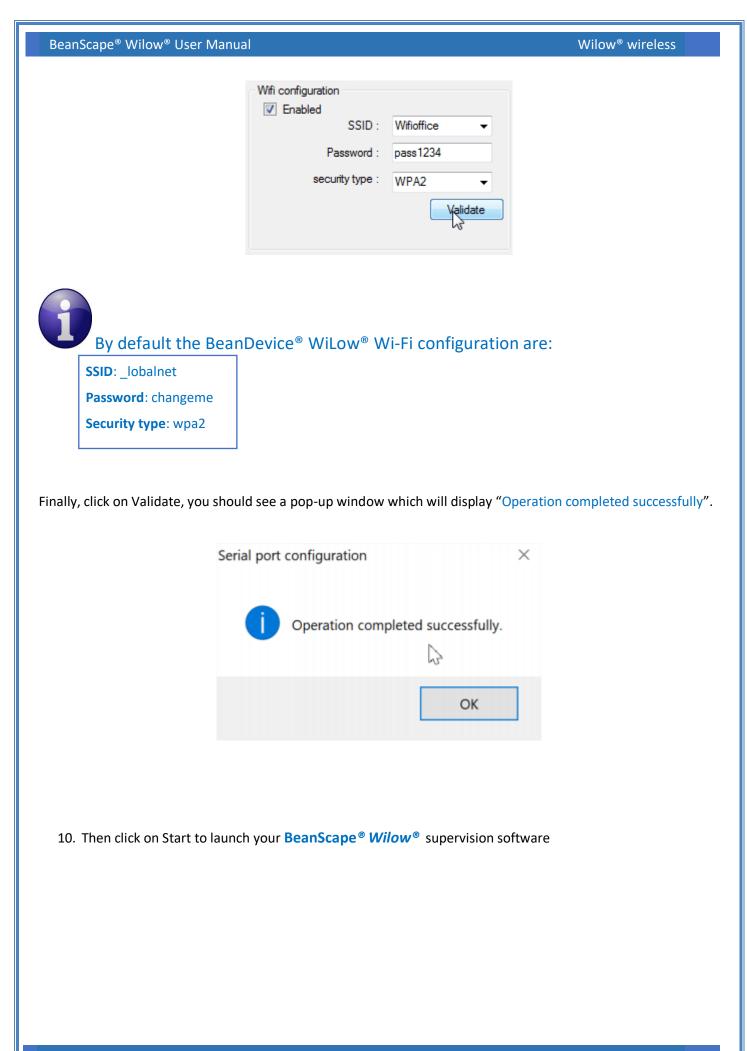
7. Click on serial port and select the serial port number connected to your BeanDevice® WiLow®

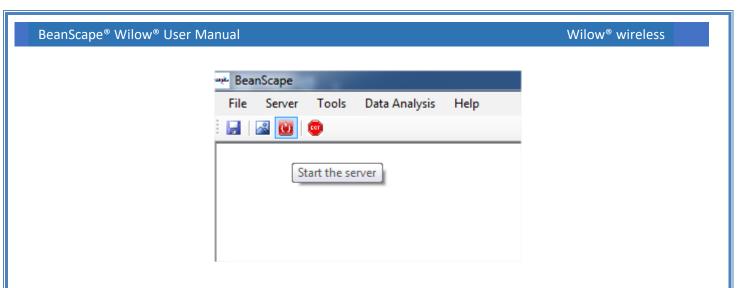
Configuration port sele	ction
Serial port	
Select serial port	
Serial port :	< Select >
	COM6

8. Enter your BeanDevice<sup>®</sup> WiLow<sup>®</sup> IP address : if you choose a dynamic IP allocation, check DHCP box:

9. Enter your WIFI Hotspot/Access Point Network configuration which will be connected to your BeanDevice<sup>®</sup> WiLow<sup>®</sup> (SSID, password and security type) of your Wi-Fi connection

Wilow<sup>®</sup> wireless





Now you will see your *BeanDevice® Wilow®* profile displayed as follow:

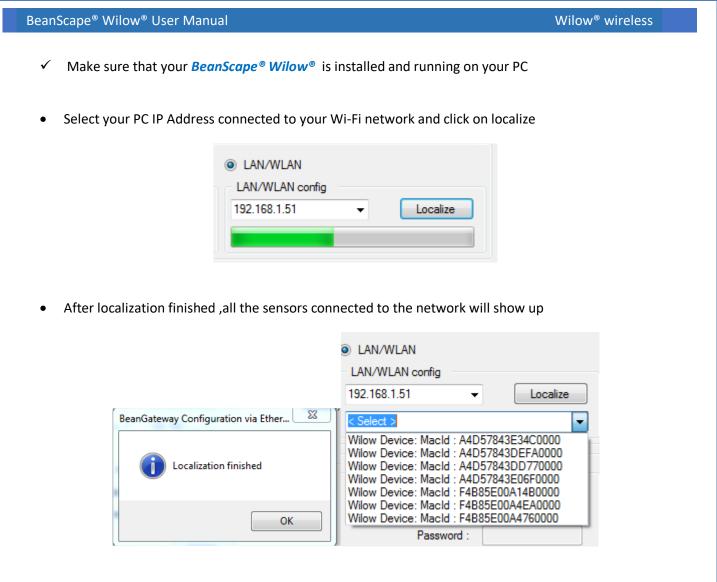
* BeanScape			
File Server Tools Data Analysis BeanDevice Help			
🛃   🖾 😈   👳			
■ MAC_ID: 0x F4885E00A4760000 ■ Ch_Z ■ Ch_X ■ Ch_Y	Platform system profile           Identity         Mac.Id.:         F4885E00M4760000           SSID:         Tends_F96F53           IP Addr.:         192.168.1.38           Label.:         MAC_ID::0x.F4885E0           Version         Hard.vers.:         [2F9           Soft.vers.:         [2F9           DAQCapability         Max.SR:         2000         ##           BeanDevice         data	Wilow Device Network Diagnostic PER: 0.25 Power Supply Diagnostic Temperature : 84 Power supply: Mens Power mode : 9ctive Battery votage : 118 V Battery level : NA Battery level : NA ChagDate : 22/11/2017-15/3222 Max Tx Ratio : 3 ogger Status : MEMORY_FULL FullMem Mngmrt:	LED Status:  TimeZone:  50 NTP uft:  216.229.0.179:123
	Current data acquisition mode Data Acq. mode : LowDutyCy Data Acq. cycle : 00 00:01 TX Ratio : 1 Sampling rate : NA Data Acq. duration : NA Tx	dd dd, hh:mm:ss Data Acq, m Data Acq, m Data Acq, c	Ratio
Component List			aming Packet options Monitoring Burst One Shot

See our Technical video Getting started with BeanDevice® Wilow

You only need to do this once unless you have changed your Wi-Fi SSID or want to install your BeanDevice Wilow in another network

Now after configuring all of the sensors you can view the entire Wi-Fi sensor network from your *BeanScape® Wilow®* 

- ✓ Make sure all of your sensors are covered by your Wi-Fi signal.
- ✓ Make sure your all of your sensors are powered and in "ON" position.

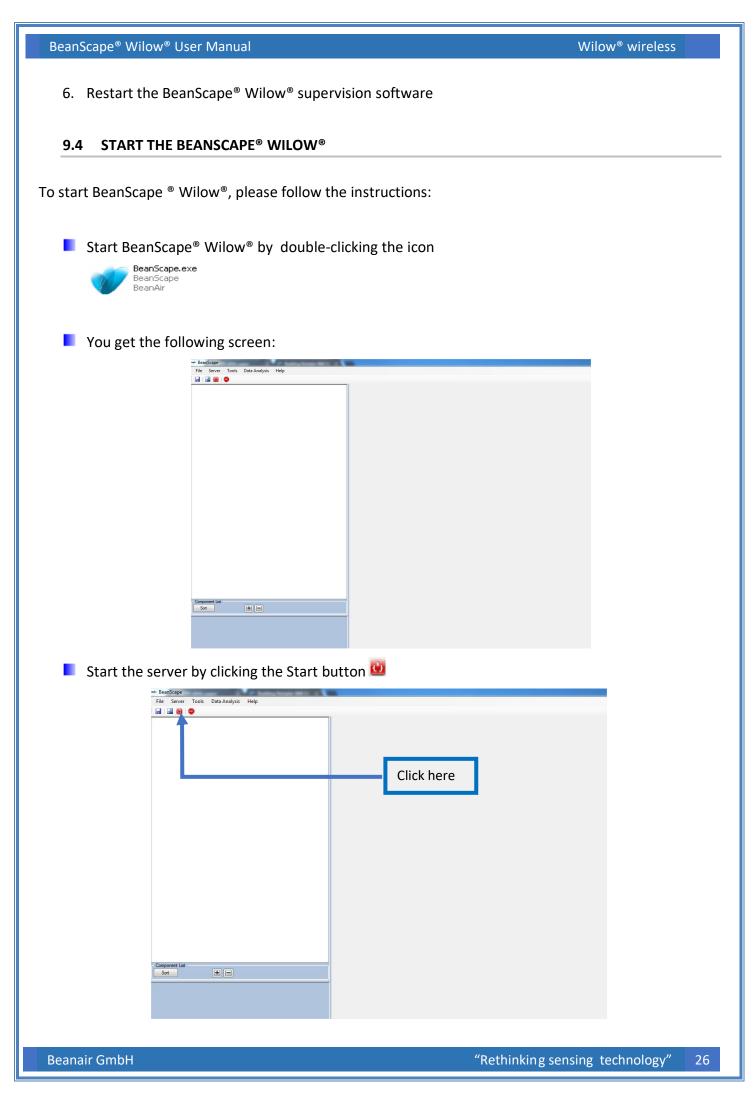


#### 9.3 FIREWALL COMPATIBILITY

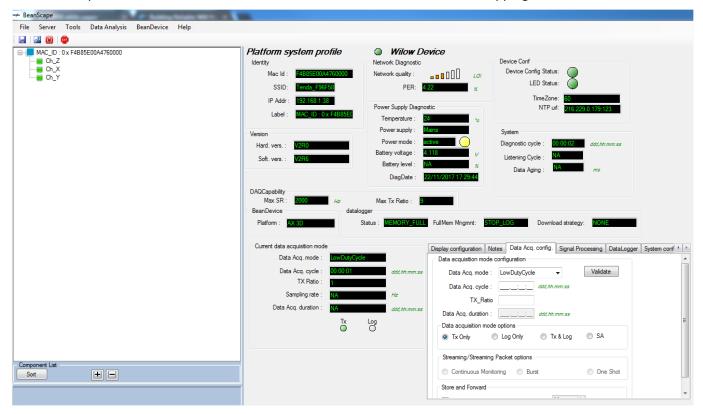
Some firewalls will not permit applications such as BeanScape<sup>®</sup> Wilow<sup>®</sup> (or any applications you have not specifically allowed) to share data with your BeanDevice<sup>®</sup> Wilow<sup>®</sup> . Generally, the first time the BeanScape<sup>®</sup> Wilow<sup>®</sup> tries to communicate with the BeanDevice<sup>®</sup> Wilow<sup>®</sup>, you will be asked if you would like to allow that application access. If you accidentally clicked **No** on that message (or if your firewall never asked for permission to allow the BeanScape<sup>®</sup> Wilow<sup>®</sup> access), you will not be able to use the **BeanScape<sup>®</sup> Wilow<sup>®</sup>** until you configure your firewall to allow BeanScape<sup>®</sup> Wilow<sup>®</sup> to have network activities.

With most firewalls, this is easy to do. Keep in mind that all firewalls are a bit different, but the process is usually as follows:

- 1. Make sure that your **BeanScape® Wilow®** is not running
- 2. Open your firewall. If you cannot find your firewall application, check the System Tray (at the bottom-right corner of the screen) for an icon. Usually, you can right-click this icon and select to open the firewall
- 3. Your firewall maintains a list of applications installed on your computer (usually under a heading like Settings or Program Control). In this list, locate the entry for BeanScape<sup>®</sup> Wilow<sup>®</sup>
- 4. Configure the BeanScape<sup>®</sup> Wilow<sup>®</sup> entry to allow it to communicate with your sensors.
- 5. Save your modifications.



The BeanScape® Wilow®, server starts, and creates the BeanDevice® Wilow®, mapping based.



## **10. APPENDICES**

#### **10.1 APPENDIX 1: ADVANCED SYSTEM CONFIGURATION**

10.1.1 Options

The following procedure applies only for advanced users

Click on the tab Tools then Options to configure advanced settings in *BeanScape® Wilow®*:

•	Tools	Data Analysis	BeanDevice
	O	otions	
):	AI	arm Alert	
Z	LA	N/WLAN Config	
X Y	Cu	ustom User Confi	guration
	Sn	tpClient	
	AI	arm Managemen	t

This window lets you configure the log directory, data cache, language, etc.

BeanScape <sup>®</sup>	Wilow®	User	Manual
------------------------	--------	------	--------

BeanScape Configur	ation			ß
- LOG Configuration				
Lo	og directory :	C:Vog_beanscape		
Main Lo	og filename :	LOG		
Main Io	g max. size :	200		≡
Sensor L	og enabled :			
Sensor log ma	x. size (KB) :	1024		
Network log in	fo.enabled :			
Network info log ma	x. size (KB) :	1024		
Streaming log ma	x. size (KB) :	2048		
BGw Module L	og enabled :			
BGw Module log ma	x. size (KB) :	1024		
Syst. Maint. Status L	og enabled :			
Syst. Maint. Status	log max size	1024		
		All sensor chanels in one file		-
Reload	Apply	Save Reset	Close	
✓ Clicking the button	reverts	to its original configuration.		

#### **10.1.2** Log file size configuration

- LOG directory: Enter here the path/folder where you would want to save the LOG files.
- Main log filename: Here you may enter the desired name in order to save the LOG file.
- Main log max. size (KB): Maximum file size in Kilobytes (KB) for your principal LOG file
- Sensor Log Enabled: Check this box if you want to enable the sensor(s) data acquisition in your LOG file
- Sensor log max. size (KB) : Maximum size in Kilobytes (KB) of sensor log files (except for streaming & streaming packet data acquisition mode)
- Network log info. enabled : Check this box if you want to enable network information in your LOG file
- Network info log max. size (KB) : Maximum size in Kilobytes for your network information LOG file

• Streaming log max. size : Maximum size in Kilobytes (KB) of sensor log files (only for streaming & streaming packet data acquisition mode)

#### 10.1.2.1 Log file generation

	<ul> <li>All sensor chanels in one file</li> </ul>
Log file generation	Separated

By default, one log file is linked to one sensor channel. The user can select a log file linked to the entire sensor channels present on the BeanDevice<sup>®</sup> Wilow<sup>®</sup>.

#### 10.1.2.2 Data cache configuration

Data Cache Configuration	
Max. points :	40000
Max. packets :	6
Max. diagnostics :	1000
Max. alarms :	25
Gps coord. max. number :	100
Max. streaming points :	10000
Max. BGw Module status nbr. :	100
Syst. Maint. Status max nbr :	500
Synch Average :	10

- Maximum number of points: Set here the maximum number of points displayed on the BeanScape<sup>®</sup> Wilow<sup>®</sup> graph
- Maximum number of packets: Set here the maximum number of packets displayed on the BeanScape<sup>®</sup> Wilow<sup>®</sup> graph
- Max number of diagnostics: Set here the maximum number of diagnostics displayed on the BeanScape<sup>®</sup> Wilow<sup>®</sup> graph
- Max number of alarms: Set here the maximum number of alarms displayed on the BeanScape Wilow<sup>®</sup> graph
- Maximum streaming points: Set here the maximum number of points displayed in Streaming/Streaming Packet on the BeanScape<sup>®</sup> Wilow<sup>®</sup> graph

BeanScape <sup>®</sup> Wilow <sup>®</sup> User Manual	Wilow <sup>®</sup> wireless
Please note that the values backed up by the BeanScape® may affer your computer depending upon the size of every file.	ct the memory capacity of
10.1.2.3 <u>TCP/IP Configuration</u>	
Tcp/Ip Configuration Tcp port to listen : 5313	
Configure the TCP port number, by default to 5313 in order to listen.	
10.1.2.4 Keep alive application	
KeepAliveApp         KeepAliveApp enabled :         KAA timeout :         10000         KAA interval :         2000         Max. retry :         5	
Three parameters related to Keepalive are available:	
<ul> <li>Keepalive time is the duration between two keepalive transmis TCP keepalive period is required to be configurable and by defa hours.</li> <li>Keepalive interval is the duration between two successive kee acknowledgement to the previous keepalive transmission is no</li> <li>Keepalive retry is the number of retransmissions to be carried remote end is not available.</li> </ul>	ault is set to no less than 2 palive retransmissions, if t received.

Keep alive packet contains null data. In a TCP/IP over Ethernet network, a keepalive frame is of 60 bytes, while acknowledge to this also null data frame and is of 54 bytes.

### 10.1.2.5 Language configuration

- Lang	guage Configuratio	n			
	Auto	English	French	🔘 German	

- Auto: The BeanScape<sup>®</sup> Wilow<sup>®</sup> will use the OS language by default
- English: select English language
- French: select French language

German: select German language

This configuration will be updated if the BeanScape<sup>®</sup> is restarted.

10.1.2.6 System Configuration

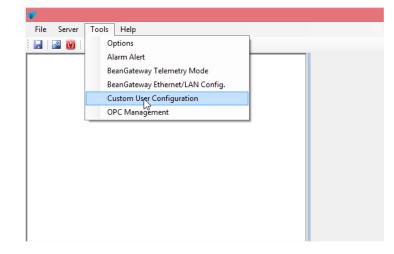
System Configuration	
Alarm automatic display :	1
Alam => sound effect :	

- *Alarm automatic display*: Check this box if you want to see an alarm window displayed automatically when a window alarm threshold is exceeded.
- Alarm → Sound Effect: Check this box if you want to hear a sound effect when a threshold is exceeded.

#### 10.1.3 Custom user configuration

#### 10.1.3.1 Export function

Click on the tab Tools then "Custom user configuration"



A new window will appear, click on *export*:

BeanScape <sup>®</sup> Wilow <sup>®</sup> User Manual		Wilow <sup>®</sup> wireless
	Custom User Configuration – – ×	

User configuration is exported in XML format:

					0.00	
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<ul> <li>Documents</li> <li>Images</li> </ul>	Périphériques et lecteurs (3)					-
🖻 🏴 Maison (rezeptio 🗸	Disque local (C:)	~~~	Business (D:)		1	~
Nom du fichier : Beanl	JserCustomDB.xml					~
Type :						~
Masquer les dossiers		$\square$		Enregistrer	Annuler	

#### 10.1.3.2 Import function

Click on "*Replace*" to import user configuration:

Import Replace Merge	Replace Merge	 Custom Us	er Configuration	 ×
Export	Export Export	Import		
		Export	Export	6

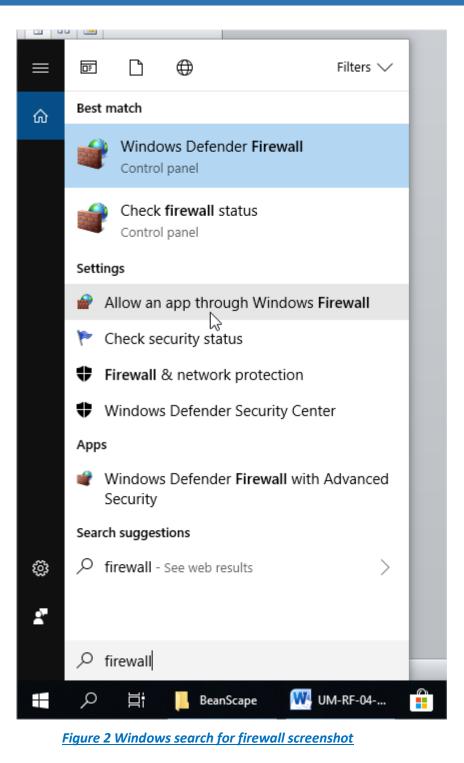
Do not try to change manually the XML file; there is a high risk to corrupt your file.

#### 10.1 APPENDIX 2: FIREWALL EXCEPTION FOR BEANSCAPE®

By default, firewall blocks all unknown network traffic coming in to the network. To permit traffic through the firewall we create exceptions (or rules) that allow certain traffic on the network. In our case the rules are defined by the software which is BeanScape.

Usually when launching BeanScape for the first time your Windows OS will ask you to add an exception and to allow the software to use your network resources ,however in case this doesn't occur or rejected, manually adding BeanScape to exceptions list is possible through these following steps:

 Use your Search bar at the windows launcher and look for "Allow an app through Windows Firewall" BeanScape® Wilow® User Manual



2. Look for BeanScape in the list and check its box, check Private if you are only willing to use BeanScape in your LAN or Public for allowing remote access from outside the LAN.Validate and your BeanScape will be allowed in your network.

anScape <sup>®</sup> Wilow <sup>®</sup> User Manual				Wilow <sup>®</sup> wireless	
Allowed apps					
← → × ↑ 💣 > Control Pa	anel > System and Security > Windows Defender Firewall > Allowed apps		~ Ū	Search Control Panel	
	Allow apps to communicate through Windows Defen	der Firewall			
	To add, change, or remove allowed apps and ports, click Change settir				
	What are the risks of allowing an app to communicate?	😯 Change setti	ngs		
	Allowed apps and features:				
	Name	Private Public	^		
	BeanScape				
	☑ Bubble Witch 3 Saga	<b>v</b>			
	Candy Crush Soda Saga				
	Captive Portal Flow				
	Cast to Device functionality				
	Connect				
	Connected Devices Platform				
	Core Networking				
	✓ Cortana	V			
	Delivery Optimization	y y			
	✓ DiagTrack				
	☑ DIAL protocol server		~		
		Details Remove			
		Allow another app			
		OK Canc	el		

Figure 3 :allowed apps window





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