

APPLICATION NOTE

APNUS043 How To Install WaveManager On Premise

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Introduction

The Acksys WaveManager On-Premise is a comprehensive wireless network management tool designed specifically for industrial and transportation environments. This software solution enables real-time monitoring, configuration, and optimization of wireless devices, ensuring seamless communication and reliability in mission-critical applications.

The purpose of the On-Premise release is to be used on a local network with WaveOs MQTT devices.

The **On-Premise Release** is designed to operate within a local network, specifically for use with WaveOS MQTT devices. This version leverages a licensing system, which must be activated to unlock the advanced features of the RMS.

This application note serves as a comprehensive guide for installing WaveManager On-Premise on various platforms, including Microsoft Windows and Linux Ubuntu.

Prerequisites

Before starting the installation, ensure the following are in place:

Hardware Requirements:

- **Processor**: Minimum quad-core CPU (e.g., Intel Xeon, AMD Ryzen).
- Memory: At least 16 GB RAM (32 GB recommended for large deployments).
- **Storage**: Minimum 100 GB of free disk space.
- **Network**: Static IP address for the WaveManager server.

Software Requirements:

For Server :

- Operating System:
 - o Ubuntu Server 24.04 or 24.04 LTS (recommended)
 - Windows 10, Windows Server 2019.
- DataBase:
 - In case of using an external Database
 - PostgreSQL 15+ DataBase (Recommended).
 - MSSQL Database

For Product:

- Operating System:
 - WaveOs 4.28.1.1 or greater

Download WaveManager Installer

Visit the WaveManager official portal and download the appropriate on-premise installation package:

- For **Linux**: .deb file.
- For Windows: .exe file.



Installation Step

Let saying finally, the downloading part of our WaveManager installation process is done.

For Windows Server

So, we can now begin WaveManager installation from the setup Wizard. Click next to continue

tallation: 💵	/aveManager-Installer-4.2.0.1@RC1.exe	17/09/2024 10:57	Application	542 148 Ko	
up	×				
This will install Wavel	Manager. Do you wish to continue?				
	Oui Non				
Setup - WaveManager		- 0 >	< Setup -	WaveManager	
	Welcome to the Way Setup Wizard	veManager	Select D Where	estination Location should WaveManager be installed?	F
	This will install WaveManager version computer.	4.2.0.1@RC1 on your		Setup will install WaveManager into t	he following folder.
- A	It is recommended that you close all o	other applications before	To con	tinue, click Next. If you would like to sel	lect a different folder, click Browse.
IIOM	Click Next to continue, or Cancel to e	xit Setup.	<u>C:\Pr</u>	ogram Files (x86)\Acksys\WaveManager	-4 Browse
			At leas	st 746,7 MB of free disk space is require	d.
	_				

NOTE: If you have already installed another WaveManager instance, please we recommended you to close all other applications before continuing.



As a result of everything we have done, you will find the install process is going on just like the following image.

Sĩ	Ready to Install Setup is now ready to begin installing WaveManager on your computer.	e
rt Menu folder.	Click Install to continue with the installation, or click Back if you want to re change any settings.	view or
Browse	C: Program Files (x86) (Addays (WaveManager-4 Start Menu folder: Addays	
	4	, *
Cancel	Back Install	Cance
- · · ·		
	t Menu folder. Ick Browse Browse	Ready to Install Setup is now ready to begin installing WaveManager on your computer. t Menu folder. Click Install to continue with the installation, or click Back if you want to re change any settings. ick Browse Destination location: C.(Program.Files (vitb)/Acksys/WaveManager-4) Start Menu folder: Acksys icencel Back

On the next step, you will choose the type of database you want to install in the provided option.

Local DataBase Installation

• **Description**: The database is installed on the same server or within the local network of the partner.





External DataBase Installation

• **Description**: The database can be hosted on a remote server or an external database server managed by a third party PostgreSQL or MSsql).

a the second sec		-
Database server configuration Database server type	((Inon)
Database server :		-
O Install a new PostgreSQL database server		
Use an existing PostgreSQL database server		
O Use an existing SQL Server database server		

NOTE: Both options are viable, and the choice depends on the partner's specific needs, budget, and IT policies. It is crucial to perform a requirements analysis and collaborate closely with the partner to decide on the best deployment approach.

Click on the type of database install , You will find a form to fill up the database information. Enter the Database name, username, password and the IP address of your database server in the form. For this example, the correct database configuration should look like the following image.

Setup - WaveManager	- 0 ×	🔜 Setup - WaveManager	- 🗆 ×
Database server configuration Database server connection parameters	Ĩ	WaveManager service configuration Configuring WaveManager service	
Host :		WaveManager service configuration complete	
localhost			
Port:			
5432			
Userhame :			
acksys			
Password :			
Database same -			
WaveManagerDB			
Back	Next	Back	Next
Setup - WaveManager	×	Setup - WaveManager	- 0 X
Mosquitto Installation Install Mosquitto broker	J.	Mosquitto Installation Install Mosquitto broker	
Installation de Mosquitto en cours		Installation de Mosquitto terminée	
Back	Next	Back	: Next



Do not forget to replace the database name, username, password, and Database host (The IP address of your database server) in the form. Once the information is entered correctly, press the Next button to submit the form.

🔜 Setup - WaveManager	- D X	WaveManager service controller	WaveManager service controller
	Completing the WaveManager Setup Wizard	Service Start Stop	Service Start Stop
	Setup has finished installing WaveManager on your computer.	Status Running	Status Running
FX	The application may be launched by selecting the installed shortcuts.	Connection settings Database settings	Connection settings Database settings
	Start WaveManager Service	Enable HTTP connection	Engine PostgreSQL
		Listening IP 0.0.0.0	Host localhost
		Listening port 5000 📚	Port 5432
		HTTPS	Username acksys
		Enable HTTPS connection	Database name WaveManagerDB
	Back Finish	Listening IP	Status Accessible
		Listening port 5001 🤤	Delete
		Server certificat	- New database connection
		Subject	Engine PostgreSQL ~
		Allow invalid	Port 5432
		Cloud Client ld	Username
		Client Key	Password Database name
		ACKSYS	Update

COMMUNICATIONS & SYSTEMS

If the database information is not correct, you can edit the database fields in the following form:

WaveManager serv	ice controller	WaveManager service controll	vice controller	
Senice	13	Service	43	
Start	Stop	Start Sto	Stop	Stop
Status	Running	Status Stopped	Running e	Stopped
Connection setting	s Database settings	Database settings	Database settings ency to	4
Configured datab	ase connection	Configured database connec	e connection	ase connection
Engine	PostareSOL	Engine PostgreSC	PostareSOL	PostgreSQL
Host	lessiliest	Host localhos	Incollege	localhost
Port	localnost	Port 5432	iocamost	5432
Hereita and	5432	Username	5432	acksvs
Usemame	acksys	Database	acksys	achayo
Database name	WaveManagerDB	WaveManag	VaveManagerDB	VaveManagerDB
Status	Accessible	Status Accessibl	Accessible	Accessible
D	elete	Delete	te	ete
New database co	nnection	New database connection	ection	nnection
Engine	PostareSQL 🗸	Engine PostgreSQL	istareSQL 🗸	ostgreSQL
Host		Host		
Port	5432 🗘	anagerV3 Service Control 54	5432 🛫 WaveMan	5432
Username		Username		
Password		Password		
L Database name		Database		
11-	udata	Update		late
OF	mate.		a.c.	

"Please update the **WaveManager database** with the relevant information after completing the necessary actions. Ensure that all fields are populated accurately and double-check for consistency to avoid discrepancies."



Finally, After entering all the required information in the form, Click on the Update button to install the WaveManager database.

Congratulations! You have successfully configured WaveManager with the external database. All the database queries will be executed on our database server.

For Linux Server

Update the System

sudo apt update && sudo apt upgrade -y

Install WaveManager Packet

After downloading the Linux WaveManager packet acksys-wavemanager_4.2.0.1RC2_amd64.deb, type the following command to install the packet:

Sudo apt-get install -f ./acksys-wavemanager_4.2.0.1RC2_amd64.deb

Installation OverView

Please note that during the installation process, you are invited to set the Database password.





Dépaquetage de libcjson1:amd64 (1.7.17-1) Sélection du paquet libmosquitto1:amd64 précédemment désélectionné. Sélection du paquet libmosquitto1:amd64 précédemment désélectionné. Préparation du dépaquetage de .../1-libmosquitto1_2.0.18-1build3_amd64.deb ... Dépaquetage de libmosquitto1:amd64 (2.0.18-1build3) ... Sélection du paquet libdlt2:amd64 précédemment désélectionné. Préparation du dépaquetage de .../2-libdlt2_2.18.10-10_amd64.deb ... Dépaquetage de libdlt2:amd64 (2.18.10-10) ... Sélection du paquet libwebsockets19t64:amd64 précédemment désélectionné. Préparation du dépaquetage de .../3-libwebsockets19t64_4.3.3-1.1build3_amd64.deb ... Dépaquetage de libwebsockets19t64:amd64 (4.3.3-1.1build3_amd64.deb ... Dépaquetage de libwebsockets19t64:amd64 (4.3.3-1.1build3_amd64.deb ... Sélection du paquet mosquitto précédemment désélectionné. Préparation du dépaquetage de .../4-mosquitto_2.0.18-1build3_amd64.deb ... Dépaquetage de mosquitto (2.0.18-1build3) Sélection du paquet postgresql précédemment désélectionné. Préparation du dépaquetage de .../5-postgresql_16+257build1.1_all.deb ... Dépaquetage de postgresql (16+257build1.1) ... Sélection du paquet acksys-wavemanager précédemment désélectionné. Sélection du paquet acksys-wavemanager précédemment désélectionné. Préparation du dépaquetage de .../6-acksys-wavemanager_4.2.0.1RC2_amd64.deb ... Dépaquetage de acksys-wavemanager (4.2.0.1RC2) ... Paramétrage de liboisquitto1:amd64 (2.0.18-1build3) ... Paramétrage de liboiscokets19t64:amd64 (4.3.3-1.1build3) ... Paramétrage de libdlt2:amd64 (2.18.10-10) ... Paramétrage de postgresql (16+257build1.1) ... Paramétrage de mosquitto (2.0.18-1build3) ... Paramétrage de acksys-wavemanager (4.2.0.1RC2) ... Paramétrage de acksys-wavemanager (4.2.0.1RC2) ... Changing ownership of directories... Configuration de la connexion au serveur de base de données... Enter the postgres administration password : this will be used to connect to the PostgreSQL server Password: Configuring PostgreSQL Server... ALTER ROLE Configuring UFW to allow traffic on port 5432... Omission de l'ajout de la règle existante Omission de l'ajout de la règle existante (v6) Pare-feu inactif (rechargement ignoré) Restarting PostgreSQL Server.. Configuration de Mosquitto... Configuration de Mosquitto... Création des répertoires nécessaires... Paramétrage de libejsoni:and64 (1.7.17-1) ... Paramétrage de libelts:and64 (1.8.18-18) ... Paramétrage de libelts:and64 (2.18.18-18) ... Paramétrage de mosquitto (2.6.18-1build3) ... Paramétrage de mosquitto (2.6.18-1build3) ... Could not execute systemati: at /usr/bin/deb-systemd-invoke line 148. Paramétrage de acksys-wavemaneger (4.2.6.1RC2) ... Enanging ownership of directories... Configuration de la connexion au serveur de base de données... Inter the postgres administration password : this will be used to connect to the PostgreSQL server Password: ssword: nfiguring PostgreSQL Server... TER ROLE TER ROLE onfiguring UFW to allow traffic on port 5432... ission de l'ajout de la règle existante vission de l'ajout de la règle existante (v6) sre-feu inactif (rechargement ignoré) sstarting PostgreSQL Server... onfiguration de Mosquitto... onfiguration de Mosquitto... réation des répertoires nécessaires... réation du fichier de configuration principal de Mosquitto... ichier de configuration principal créé et permissions définies sur 644. réation du fichier de configuration Mosquitto... ichier de configuration créé et permissions définies sur 755. réation du fichier de service Mosquitto... cibier de service créé et permissions définies sur 644. edémarrage du service Mosquitto...



PostgreSQL Database service Status (once installed)

Bit December 5 systemct1 status acksys wavemanage acksys wavemanager.service - Acksys WaveManager server. Loaded: loaded (http:/system/acksys.wavemanager.servic Active: active (running) since Wed 2024-11-27 15:30:29 CET; 1 Main FID: 9023 (Acksys.WaveMana) Tasks: 39 (Unit: 7401) Memory: 132.3M (peak: 132.8M) CFU: 4.0116 CGroup: (system.slice/acksys.waveManager.service _9023 /opt/acksys/bln/Acksys.waveManager.service	ger.service ice; enabled; preset: enabled) 13s ago	
<pre>vov. 27 15:30:38 noe-VirtualBox acksys-wavemanager.service[9823]: nov. 27 15:30:38 noe-VirtualBox acksys-wavemanager.service[9823]:</pre>	Acksys.NaveMana rationalServices.CommunicationServices.LocalClientServices.LocalApttClien Acksys.NaveManager.Server.Services.OperationalServices.CommunicationServices.LocalClientServices.LocalApttClien Acksys.NaveManager.Server.Services.OperationalServices.CommicationServices.LocalClientServices.LocalApttClien Acksys.NaveManager.Server.Services.OperationalServices.CommicationServices.UpdateServices.Services.Services.OperationalServices.UpdateServices.UpdateServices.Services.Services.OperationalServices.UpdateSer	tServia tServia tServia tServia tServia tServia tServia tServia

Mosquitto Service Status (once installed)

	Incompany (Scortanet) status mesolita condica
and could be a	andra Machille Matteria
Hosqueecors	ervice moduleto norr broker
Loaded:	loaded (/etc/system/d/system/mosquitto.service; enabled; preset: enabled)
Active:	active (running) since Wed 2024-11-27 15:30:06 CET; 1min 3s ago
Docs:	man:mosquitto.conf(5)
	man:moscul(tto(B)
Male DTD.	
Math Pibi	
Tasks:	I (LUNIT: 7401)
Menory:	1.0M (peak: 1.5M)
CPU:	60ns
CGroup:	/system.slice/mosquitto.service
	Line /usr/shin/manulita -c /stc/menulita/seculite.cosf
37 15:30	186 non-Victurillan sustand[1]: Etastian magnulta saculas - Rasaulta NOTT Bookas
104. 21 13:30	The network systemular as a second
10V. 27 15:38	:06 noe-VirtualBox Mosquitto[8300]: 1/32/1/806: Loading config file /etc/Mosquitto/confid/acksys-Mosquitto.conf
nov. 27 15:38	:06 noe-VirtualBox mosquitto[8300]: 1732717806: mosquitto version 2.0.18 starting
lov. 27 15:38	:06 noe-VirtualBox mosquitto[8300]: 1732717806: Config loaded from /etc/mosquitto/mosquitto.conf.
lov. 27 15:36	:06 noe-VirtualBox mosquitto[8300]: 1732717806: Opening lov4 listen socket on port 443.
WW 27 15+38	186 non-WittualBoy mocalitts(8300): 1732717886: mocalitto varcian 2 8 18 runnian
37 15.30	The net virtualities production and its state interview service in the service interview in the service interview in the service interview in the service interview in the service interview in
10V. 27 15:38	tee noe-virtualeox systemo[1]: startee mosquitto.service - mosquitto mull eroker,
10V. 27 15:30	:38 noe-VirtualBox mosquitto[8300]: 1732717838: New connection from 127.0.0.1:57940 on port 443.
NOV. 27 15:38	:38 noe-VirtualBox mosquitto[8300]: 1732717838: New client connected from 127.0.0.1:57940 as simo (p2, c1, k60).



Configure your Admin account (First Login)

Open a browser and navigate to http://<server-ip>:5000 or the domain configured and you will be invited to fill the login form and configure your admin account.

ADMINISTRATOR LISE	2
Username	•
Admin	
Firstname (optional)	
Firstname	
Lastname (optional)	
Lastname	-
Email (optional)	
Email	\geq
Phone number (optional)	
Phone number	2
Company name (optional)	
Company name	
Password	
•••••	
Confirm password	
•••••	
Register	



Quick test to check our new install

Please configure an Acksys router to interact with the MQTT broker (WaveManager MQTT broker), you need to set up the router to act as an MQTT client. ACKSYS router support direct MQTT client functionality on the firmware version 4.28.1.1 or higher.

Configure your router to connect to the broker

Access the Web UI:

- Log in to the router's web interface.
- Navigate to Setup > Services > Cloud > and provide necessary information to configure the router .

Set Up MQTT Connection:

- Enter the Broker's details:
 - Enable cloud : enable MQTT service
 - o Cloud type : Personal
 - Service identification : Management purposes, this field is mandatory. Provided by the web interface when cloud is personal.
 - Server: The broker's IP or hostname (here WaveManager IP Address).
 - **Port**: The MQTT port.
 - Encryption TLS : If required by the broker.
 - Authentication TLS: If required by the broker.

Apply and Save Configuration:

- Ensure the MQTT service is enabled.
- Save and apply the configuration.

5	SETUP TOOLS STATUS			
PHYSICAL INTERFACES				
VIRTUAL INTERFACES				
BRIDGING	In this page you will be able to enable acksys cloud or configure a personal cloud			
NETWORK	Note : The Acksys cloud requiere WaveManager 4.	4.0.1 or later		
VPN	CLOUD CONFIGURATION			
ROUTING / FIREWALL	Enable cloud			
SECURITY	Cloud type	Personal		
QOS	Service identification			
DYNAMIC DNS		On_premise_WM		
SERVICES	Server	192.168.10.17		
ALARMS/EVENTS CLOUD	Port	1883		
CONN, TRACKING DHCP / DNS RELAY	Encryption TLS			
DHCPV6 DISCOVER AGENT GNSS AGENT INITSCRIPTS	Authentication TLS			
ITXPT LLDP PASSPOINT SNMP AGENT		🔕 Reset 🙋 Save 🚺 Save & Apply		



Field name	Sample	Description
Enable	Checked	Enable MQTT service
Cloud Type	personal	Personal Cloud
Service identification	On_Premise_WM	This field is mandatory. Provided by the web interface when cloud
		is personal.
Server	192.168.10.17	Remote Broker's address $ ightarrow$ WaveManager On-Premise
Port	By default :1883	Select which port the broker should use to listen for connections
Encryption TLS	Unchecked	Enable TLS/SSL authentication for the broker
Authentication TLS	Unchecked	Enable TLS/SSL authentication for the broker

Connect on the WaveManager On-Premise

Access WaveManager:

Open a browser and navigate to http://<server-ip>:5000 or the domain configured and you will be invited to fill login/password.

🔜 Wav	e Mana	ager
L	OGIN	
Admin		±
•••••		
	Login	

ACKSYS	🗄 WeveManager : Acksys Network Managemen	t System		0 🔹 💩 All Admin 1 32
Product view Will view Int. configurations	State - 0 products = ∷ No data to display	Configuration State - 0 products = 13 No data to display	Firmware Version - 0 products = ∷ No data to display	WiFi Roles - 0 roles - 13 No data to display
	Configuration Group Model	Q. Mastrame Serial Number Product Id	. 50 per pr Firmware Firmware Version Default IF	ge + 0-0,0 & C > > AU - [] Address Description Wireless Roles
O Sentings	Gagyrlyfel C Addryy 20 24. Al rights searried.			Ackeys Communications & Systems.



Add new products:

	 Update firmware Update network interface settings Update wireless element settings Update wireless interface settings 	Hostname	Serial Number Produ	act Id Firmware Firmware	Version Default II	PAddress Descriptio	on Wireless Rol	les
	Update web server access settings							
	• Validate							
	 LED tracking 							
	₽+ Export							
	+ Add new products							
Di	se discovery service		 Starting IPv4 		Ending IPv4		c	2
	Serial Number	Code	IPv4 Adress	IPv4 Server Ad	ress	Server Port	Result	
٨da	d new product	ts		Add				3
Add	d new product	ts		Add				,
Add Ise di Niscon	d new product Iscovery service Very Remote	ts ~	Starting IPv4	Add 192,168,20,1	Ending IPv4	192.168.20.	129	Q
Add se di isco node	d new product Iscovery service Very Remote Serial Number	code	Starting IPv4 IPv4 Adress	Add 192.168.20.1	Ending IPv4	192.168.20. Server Port	129 Result	a
Add isco node	d new product iscovery service very Remote Serial Number 2010501d	Code	Starting IPv4 IPv4 Adress 192.168.20.117	Add 192.168.20.1 IPv4 Server 4 192.168.10.96	Ending IPv4 Adress	192.168.20. Server Port 443	129 Result	Q
Add Ise di Nisco Node	d new product iscovery service very Remote Serial Number 2010501d 23028072	Code 112 142	Starting IPv4 IPv4 Adress 192.168.20.117 192.168.20.128	Add 192.168.20.1 IPv4 Server 4 192.168.10.96 192.168.10.96	Ending IPv4 Adress	192.168.20. Server Port 443 443	129 Result	Q
Add lse di biscon node	d new product	Code 112 142	Starting IPv4 IPv4 Adress 192.168.20.117 192.168.20.128	Add 192.168.20.1 IPv4 Server 4 192.168.10.96 192.168.10.96	Ending IPv4	192.168.20. Server Port 443 443	129 Result	c



Products Association:

Use d	iscovery	service						
Disco	very	Remote	20 - 12 0	Terrar Inc	100.001		92.168.20.1	29
mode						×	c	
	Serial	Number	selected	d products can be disco	onnected. do you want	to continue?	? ver Port	Result
-	20105	01d		Yes	No			
•	23028	072				-		
-	20105	048	112	192.168.20.115	192.168.10.96	12	443	



×

Add new products

cov	ery mode	Remote		 Starting IPv4 	3	92.168.20.1		Ending IP	v4	192.168.20.129)	
	Serial Number	Code	IPv4 Adress	IPv4 Server Adress		Server Port	Result					
1	2010501d	112	192.168.20.11	7 192.168.10.9	6 🖪	443	The prod	uct is well a	sociated			
	23028072	142	192.168.20.12	8 192,168,10.9	6 🗭	443	The prod	uct is well a	sociated			
	20105048	112	192 168 20 11	5 102 168 10 0	ie r e	443 Add	The nrod	urt ie wall a	enciated			
/av	reManager : Acksys N	Network Managemer	nt System							0	🌲 🍰 All Adr	nin
te -	- 54 products	-	Configura	tion State - 54 products	- :	3 Firmware	/ersion - 54 product	s – 0	WiFi Rol	es - 51 roles	- :	;
(Online Unreachable Waiting for one 	connection		Valid configuration New configuration Naming configura	tion		 4.28.0.1@ 4.28.0.1@CV 4.28.0.1@RV 4.28.0.1@RV Unknown 	5		 Client Access Point Isolating Access P Mesh 	Point
	90.7%			95.9%			87.0%			90.2%	Manitor SRCC	
	90.7% ¥≣ • T Model •		a	95.9%			27.0%	50) per page 🔹 0 -	90.2% 50 /54 « < >	Monitor SRCC	
ui ,	90.7% ∰≣ • ▼ Model • Configuration	Group Model	Q	95.95 ostname Seria	l Number	Product Id	Firmware Firm	50 ware Version) per page 🔹 0 - Default IP Address	90.2%	 Monitor SRCC Mu – (Wireless Roles 	3
	90.7% ∰ • ▼ Model • Configuration	Group Model	Q H	ostname Seria	I Number	Product Id 00001c597332	1.0%	50 ware Version) per page 🔹 0 - Default IP Address	90.2% 50 /54 « 	 Monitor SRCC Mu – (Wireless Roles 	3
IL.	90.7% E T Model Configuration	Group Model	AirLink V2 RailBox/22AY	9004 ostname Seria 2010 skysMaquetteAP 1620	I Number 503f 5012	Product Id 00001c597332 0000116eea17	Firmware Firm	50 ware Version) per page • 0 - Default IP Address	50/54 « 〈 〉 Description	Montor SRCC Wireless Roles	3
JII J	9075 ∰ - ▼ Model - Configuration	Group Model	Airtink V2 RailBox/D20A0 V2 p	oon Soname Seria 2010 cksysMaquetteAP 1620 DAO,AP 23021	I Number 603f 6012	Product Id 00001/597332 000011/6eea17 0000117/6bd26	070% Firmware Firmv E2148AC.1 4.28.0 E2148AC.2 4.28.0	Si ware Version	0 per page • 0 - Default IP Address 192.168.20.105	025 50/54 « < > Description User-definable User-definable	Menter SRCC Wireless Roles	:3
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For further assistance, consult the official WaveManager documentation or contact support.

Support : https://support.acksys.fr