

Korenix NMS Getting Started Guide



Introduction

Korenix NMS is Industrial Innovation Network Management system (i²-NMS). So Korenix NMS is also called i²-NMS for short. It is specifically designed for the mission critical industrial environments. The Korenix NMS provides a comprehensive platform for monitoring, configuring, and maintaining mission-critical IP-based communication networks, such as IP surveillance, factory automations, mining, substations, maritime, and military applications.

System Requirements

- Hardware
 - Processor
 Minimum Intel Core 2 Duo CPU 2.5 GHz or higher
 - RAM 1GB RAM
 - Disk
 1GB hard disk
- Software
 - Operation system
 Windows XP/2000/2003/7/Vista platforms
- Screen Resolution
 It is optimized for a screen resolution of 1024x768.



Installation

1. Run setup.exe.

InstallShield Wizard	
	Preparing to Install
	Korenix NMS Setup is preparing the InstallShield Wizard, which will guide you through the program setup process. Please wait.
LY N	Extracting: Korenix NMS.msi
	Cancel

2. Press Next to next screen.

Korenix NMS - InstallShield Wizard				
	Welcome to the InstallShield Wizard for Korenix NMS The InstallShield Wizard will install Korenix NMS on your computer. To continue, click Next.			
	< <u>Back</u> Cancel			



www.korenix.com

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3. Please read the license agreement and select "I accept the terms of the license agreement. Press **Next** to next screen.

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icense Agreement	Salar V
Please read the following license agreen	nent carefully.
This License Agreement ("AGREEMEN ("LICENSEE"), either an individual or a Korenix Corporation ("Korenix") for the s "LICENSED SOFTWARE"). By using, copying or distributing all or ar the terms and conditions of this agreement enforceable against you and any entity is used. If you do not agree, do not use	T") is a legal agreement between you legal entity including any legal successors, and software in this package and associated media (the my portion of the Korenix software, you accept all ent. Upon acceptance, the agreement is that obtained the software and on whose behalf it the software.
1. Restrictions	~
O I accept the terms of the license agree ■	sement
OI do not accept the terms of the licen	ise agreement
allShield	

4. Input User Name and Company Name and Press Next to next screen.

Korenix NMS - I	nstallShield Wizard	×
Customer Infor Please enter yo	mation ur information.	A A
<u>U</u> ser Name:		
John		
<u>C</u> ompany Name	:	
Korenix		
Install this appli	cation for: Anyone who uses this computer (all users) Only for me (Peter)	
InstallShield ———	< <u>B</u> ack Ne	xt > Cancel



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5. Select the type of setup and press **Next** to next screen.

Note: Minimal installation (Korenix NMS program) cannot run standalone without complete installation (Korenix NMS Service and Korenix NMS program).

	×
Setup Type Select the setup type that best suits your needs.	124
Click the type of setup you prefer.	
Complete Installation Custom Installation Minimal Installation	Description Install Korenix NMS Service and Korenix NMS program.
nstallShield	
<u> </u>	ack <u>N</u> ext > Cancel
Korenix NMS - InstallShield Wizard	ack <u>N</u> ext> Cancel
Korenix WMS - InstallShield Wizard Setup Status	ack <u>N</u> ext> Cancel
Korenix NMS - InstallShield Wizard Setup Status Korenix NMS is configuring your new software installation	ack <u>N</u> ext> Cancel
Korenix WMS - InstallShield Wizard Setup Status Korenix NMS is configuring your new software installation	ack <u>Next</u> > Cancel

Cancel



6. Press Finish to end installation.



On the desktop or in **Start / Programs / Korenix / Korenix NMS /**, there are two program shortcuts (as figure).





This shortcut will be asked to connect to remote server.

Getting Started

Korenix NMS is a client/server based network system. One Korenix NMS server can serve many remote Korenix NMS clients (maximum is 5)¹.

¹ Only one remote client connection per computer. The server will refuse the new connection if there is already one session exist.



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Because of the access synchronization, we only allow one client entered the **Edit** mode at the same time and the other clients on **Monitor** mode. The default password to enter the two modes is "korenix". The Monitor mode can only allow viewer to browse the topology. The Edit mode can use all functions.

- Start Korenix NMS server on Server site
 - 1. Start / Programs / Korenix / Korenix NMS / Korenix NMS (localhost)



2. Display Korenix NMS Main Window.

- (Optional) Start Korenix NMS client on Client site
 - 1. Start / Programs / Korenix / Korenix NMS / Korenix NMS
 - 2. Enter server address to connect. (ex. Server IP: 192.168.10.100)



1		
www.	corenix.com	

Input		×
?	Please enter server address 192.168.10.100	
	OK Cancel	

3. Enter password into monitor mode and press "Ok".

Korenix NMS Remote Access 192.168.10.254	×
Password for Monitor Client	
•••••	
OK Ca	ncel

Note: the default password for Monitor Mode access is "korenix".

4. Display Korenix NMS Main Window.



Register for 32/64/128/256/512/1024 nodes



- Download and install the latest Korenix NMS from Korenix web site. (http://www.korenix.com/support-jetview-software.htm)
- After receiving the Korenix NMS license, go to Korenix NMS > Preference > License.

Korenix NMS Preferences			×
Preferences	License		
Events			
Events	License		
Event Action	Name:		
Status Colors			
SMTP Configuration	Company:		
SNMP	Authorization Code:		
SNMP Configuration	Addition 2 addit Code.		
SNMP Trap Receiver	Discovery Limitation:	16 nodes	
Remote Access		Devictor	
Applications		Register	
Background Image			
Select Language			
License			
	I		OK Cancel

3. Fill out Name, Company and Authorization Code base on the content of Korenix NMS license. And then press Register button.



	eferences	License		
Θ	Events			
	Events	License		
	Event Action	Nome		
	Status Colors	Name.		
	SMTP Configuration	Company:	Korenix	
Θ	SNMP			
	SNMP Configuration	Authorization Code:		
	SNMP Trap Receiver	Discovery Limitation:	16 nodes	
	Remote Access	· ·		
	Applications		Register	
	Background Image			
	Select Language			
	License			

- 4. Finally, press OK to apply license.
- Enter Edit mode
 - 1. Click on Edit Mode on the toolbar, it displays Password dialog.



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Korenix NMS v1.6.2.5	
ile <u>M</u> anagement <u>C</u> onfigurati <a>Sind EditMode	on Help) Web Browser 🤤 Scan Network 🔗 Fast Scan 🎡 Preferences Zoom 60 🗘
/4ap ■ 192.168.10.199 ■ 192.168.10.14	Topology All Devices Korenix Your Industrial Computing & Networking Partner

• 19 • 19	32.168.1 32.168.1	0.199		Vertices Ver	Your Industrial Con	nputing & Networ	king Partner
			K			OK Ca	ncel
Event	/lanager	nent	SNMP Trap Receiver				All Events
ID	Ack	Туре	Category	Receive Time	Source	Component	
94		0	Application Info	2014-08-04 17:40:57	Korenix NMS Service	Remote Access	Authentication is success in Monitor mode. From:127.0.0.1:5 🔨
93		0	Application Info	2014-08-04 17:39:18	Korenix NMS Service	Remote Access	The client leave Monitor mode. From:127.0.0.1:5907
92			Application Info	2014-08-04 17:39:18	Korenix NMS Service	Remote Access	The client leave Edit mode. From:127.0.0.1:5907
91		0	Application Info	2014-08-04 17:38:40	Korenix NMS Service	Remote Access	Authentication is success in Edit mode. From:127.0.0.1:6907
90		0	Application Info	2014-08-04 17:38:31	Korenix NMS Service	Remote Access	Authentication is success in Monitor mode. From:127.0.0.1:5
89		0	Application Info	2014-08-04 17:38:27	Korenix NMS Service	Remote Access	The client leave Monitor mode. From:127.0.0.1:5714
88		9	Application Info	2014-08-04 17:38:27	Korenix NMS Service	Remote Access	The client leave Edit mode. From:127.0.0.1:5714
87		-	Annlication Info	2014-08-04 17:37:36	Korenix NMS Service	Remote Access	Authentication is success in Edit mode From 127 0.01:5714

- 2. Input password korenix and press OK.
- 3. After entering Edit Mode, the button will become green.



Fast scan (add devices)

> To update installed network components (or devices), click on Fast Scan on the toolbar and select one of your NIC which connect to devices. It displays all Korenix devices in the network on the **Topology** tab.



() Korenix NMS v1.6.2.5	
<u>File Management</u> <u>Configuration</u> <u>H</u> elp	
🔍 Find 📝 Edit Mode 🚳 Web Browst	er 🤤 SNMP Browser 🖷 Scan Network 🛿 🖗 Fast Scan 🎡 Preferences Zoom 50 😂
Map	/ All Devices
ko	Your Industrial Computing & Networking Partner



- Auto Topology
 - To let "Auto Topology" working, each network device (i.e. JetNet5010G) MUST enable LLDP function. Enter Web screen to confirm whether LLDP is enabled.
 - a. Use mouse to select one device on the Topology tab which you want to enable LLDP.
 - b. Mouse right-click the selected device and click on the **Web Browser** menu-item of pop-up menu.





c. When the login screen appears, login with the user name and password.

Note: The default login User Name and Password: admin/admin



🔗 Korenix JetNet SwitchManager - Windows Internet Explorer	🔳 🗖 🐱
🕞 🕞 🗢 🖻 http://192.168.10.1/index.html	P-
Switch Manager	👌 - 🎽
Please enter user name and password. Site: 192.168.10.1 User Name: Password: OK Cancel	
完成 🛛 👘 😜 網際網	路 🦓 🗸 🔍 100% 🔻 🔬

d. Click on the tree node **Topology Discovery**.

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LLDP Configuration		
LLDP timer		
LLDP hold time		

Disable

•

LLDP Port State

LLDP

Local Port	Neighbor ID	Neighbor IP	Neighbor VID	
				^
				•

Apply

e. Confirm whether LLDP is enabled. If Disable, please set Enable and press **Apply**. You manual set the timers of LLDP.

The range of LLDP timer is 5~254 and LLDP hold time is 10~255.

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Topology Discovery

Enable

LLDP Configuration

LLDP

LLDP timer	30
LLDP hold time	120

LLDP Port State

Local Port	Neighbor ID	Neighbor IP	Neighbor VID	
fa9	00:12:77:ff:02:c3	192.168.10.10	1	1
fa13	00:12:77:60:14:60	192.168.10.20	1	
				•

Ŧ

Apply

- 2. Check every device's icon that each one has a green check ♥ on it. Device icon without check icon can't access by SNMP².
- 3. Generate connections between the devices³.
- 4. Mouse right-click on the Topology tab and click on **Auto Topology** on pop-up menu. It will display as follows:

² You may need to wait 0.5 minute to let Korenix NMS collect devices' information.

³ In the example below, Korenix NMS add connections and place all devices according to the SNMP mib.



Topology All Devices				
koren	Your Industrial C	omputing & Networki	ing Partner	
192.168.10.254	192.168.10.37	192.168.10.36	192.168.10.32	192.168.10.33
	 Fast Scan Scan Network Auto Topology Line Up All Devices 	tes		
Au	to Topology	×		
Pol	icy			
	Create New Topology			
	All Existing Connections Will	be Removed!		
0	Add To Current Topolog	у		
	Existing Connections Will Ren	nain Untouched!		
Lay	rout			
6	Automatic			
	All Object on Topology will be	Placed Automatically!		
) Manual			
	All Devices will remain in their	position		
	Ok C	ancel		

a. Press OK to display the following of screen:



Topology All Devices



Auto Topology Check List:

Yes/No	Requirement
	Does every device enable SNMP?
	Does any device not using default SNMP community? (public, private)
	Does every devices' icon show green?
	Does every device enable LLDP?
	If the device show red (not reachable), after you fix the problem, did you
	refresh the device?