System Hardening Guideline

In Wiser for KNX and spaceLYnk
Application note

LSS100100

LSS100200

04/2021

Life Is On | Schneider Electric

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Important Safety Information

Read these instructions carefully and look at the equipment to become familiar with the device before trying to install, operate, service, or maintain it. The following special messages may appear throughout this manual or on the equipment to warn of potential hazards or to call attention to information that clarifies or simplifies a procedure.

The addition of either symbol to a "Danger" or "Warning" safety label indicates that an electrical hazard exists which will result in personal injury if the instructions are not followed.

This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

⚠ DANGER
DANGER indicates a hazardous situation which, if not avoided, **will result in** death or serious injury.

⚠ WARNING
WARNING indicates a hazardous situation which, if not avoided, **could result in** death or serious injury.

⚠ CAUTION
CAUTION indicates a hazardous situation which, if not avoided, **could result in** minor or moderate injury.

NOTICE
NOTICE is used to address practices not related to physical injury.

Further information

The information provided must be complied with, otherwise program or data errors may occur.

You will find additional information here to make your work easier

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For your safety

⚡ ⚠ **DANGER**
HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH **Safe electrical installation must be carried out only by skilled professionals. Skilled professionals must prove profound knowledge in the following areas:** •   **Connecting to installation networks** •   **Connecting to several electrical devices** •   **Laying electrical cables** •   **Safety standards, local wiring rules and regulations** **Failure to follow these instructions will result in death or serious injury.**

1   Introduction

The Wiser for KNX and spaceLYnk are freely programmable logic controllers. They can be used in a various integration scenario acting in different roles. It is necessary to understand how to configure them in order to achieve maximum security. This system hardening guideline can help you to follow best practices which you can use in your projects.

For purpose of this document the controller means Wiser for KNX, spaceLYnk unless specified.

2   Controller

2.1   Passwords

• Passwords should include upper case, lower case, number and special characters

• The password must have 8 characters minimum

• The password should not be easily found in the dictionary and a phrase is preferred

• Passwords should be changed frequently, at least once a year

• A default Admin password must be changed immediately when first received and after a factory reset

• Never re-use passwords

• After first login change default password for local access

2.2   Network

• Controller should only be used in your personal home network

• Controller should not have a publicly accessible IP address

• Do NOT use port forwarding to access a controller from the public internet

• Controller should be on its own network segment. If your router supports a guest network or VLAN, it is preferable to locate the controller there

• Use the strongest Wi-Fi encryption available

• Use HTTPs in local network

2.3   Controller applications & LMUP files

• Download applications ONLY from =SE= Marketplace accessible from the controller – follow steps in [User guide](#) - chapter **Application store**

• Do not install applications or LMUP files from untrusted vendors - you can harm your controller or open backdoors for any attackers

• Use only =SE= webpages for download scripts or controller's firmware

• LMUP file distribution channels are SE.com website, Yammer and The Exchange. You can obtain them from SE support as well

3 Connectivity

3.1 Voice Control

- For enable / disable voice control follow steps in application note [Wiser for KNX-Alexa Voice control](#).

3.2 VPN

- Is by default enabled for Wiser for KNX

- If you don't use Wiser for KNX remote app turn off your VPN connection in the controller. Follow steps in [User guide](#) in chapter **Remote Connectivity**

3.3 Wiser for KNX and spaceLYnk firmware

- Always use the latest firmware for the controller in order to get new features, cyber security fixes and improvements. Keep the controller up to date.

- Download controller's firmware strictly from =SE= webpages

  » firmware for [spaceLYnk](#)

  » firmware for [Wiser for KNX](#)

- Factory reset – is described in [User guide](#) - chapter **Factory reset**

- For partial project delete refer to chapter **Reset / clean-up**

3.4 Wiser for KNX Device

- Wiser for KNX should be placed in **LOCKED** cabinet with restricted access

4 System and configuration Backups

- It is highly recommended to create backup of your actual project and configuration before firmware upgrade!

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LSS100100, LSS100200 Rev. 1