AE firmware upgrades for the second generation of devices

INTRODUCTION

In contrast to the first generation, the second generation of the AE devices has no DIP switches for the software upgrade. The upgrade process is now completely accomplished by a Sogftware. Security is provided by AES Cipher Block Chaining (CBC) algorithm. SHA-1 is used to produce digital fingerprints. This allows firmware upgrades to be securely and easily managed over the Internet.

Hardware Requirements
 ➢ Any computer (PC, notebook, smartphone, etc.),
 ➢ at least one AE device in ready state,
 ➢ and an internet connection.

Software Requirements
 ➢ A modern browser is on the computer,
 ➢ the KERT_AE_TOOLS must be installed on the computer,
 ➢ and the user must be a member of the KERT_AE_KING group.

SECURITY: Important is the careful handling of passwords in the KERT_AE_KING group. The access rights set during installation must not be changed.

ATTENTION: The upgrades are private and only valid for devices with the same authenticated customer ID (third part of the private AE IP address).

UPGRADE PROCEDURE

1. Open a Browser and connect to file://<kert-ae-path>/update-g2.html<kert-ae-path>/update-g2.html.

   <kert-ae-path> is the URL of the AE root directory as selected when installing the KERT_AE_TOOLS. The default directory under Windows is /C:/KERT_AE and /opt/kert-ae under Linux. The current value is stored in the environment variable KERT_AE_DIR. It's a good idea to add this URL to the favorites.

2. Press the "Search Upgrades" button on the right side of the web page. New firmware versions are shown on the left.
3. Select one or more firmware versions and press the "Download button".
4. After the download, select a firmware version and press the "Install" button. The new firmware will be installed on all AE devices that are in the ready state. It is always possible to reinstall an old stored firmware version.

   Before any new firmware is installed, the AE devices that are in the ready state should be displayed by pressing the "Show Devices" button.