

ES910: Configure wake-up behavior



Question

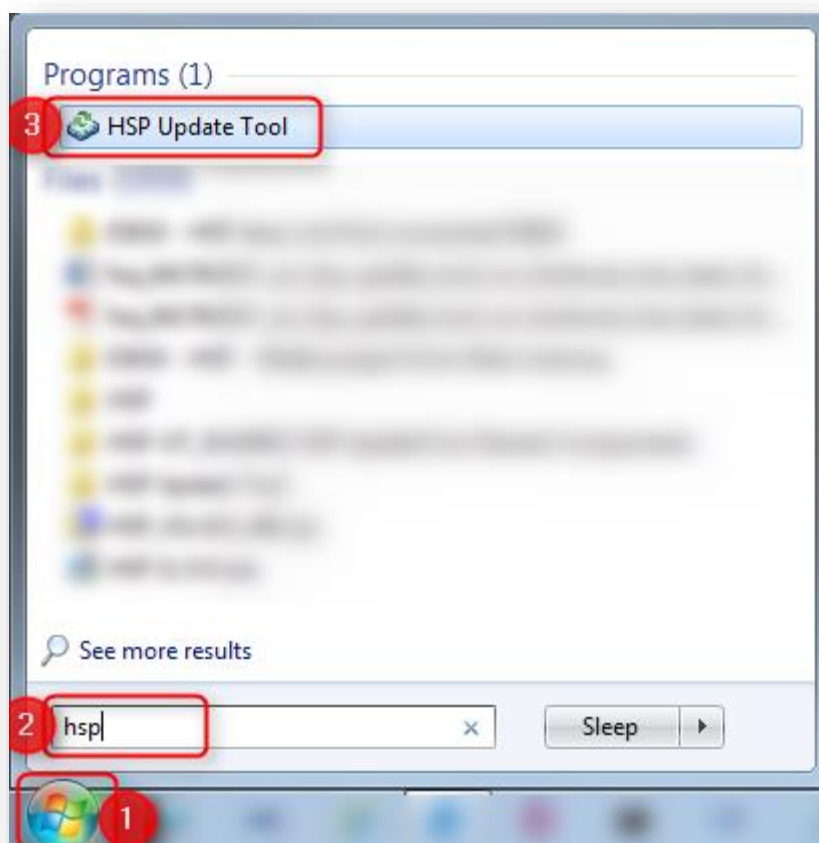
- How to configure the **wake-up** behaviour of an ES910?
- Where do I configure **shutdown** time of the ES910?
- Does the ES910 have a **stand-by mode**?



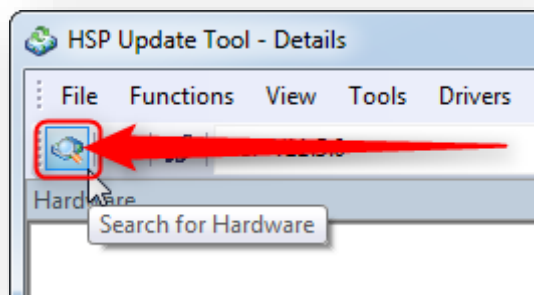
Answer

- The **Wake Up** and **Shut Down** behaviour of the ES910 can be configured via **web interface**
- Start the web interface from the **Hardware Service Pack (HSP) Update Tool**:

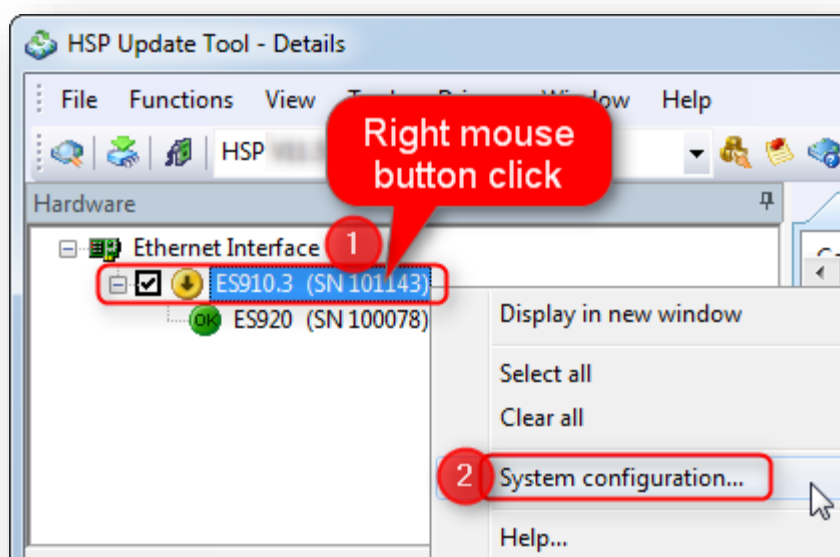
1. Start HSP Update Tool



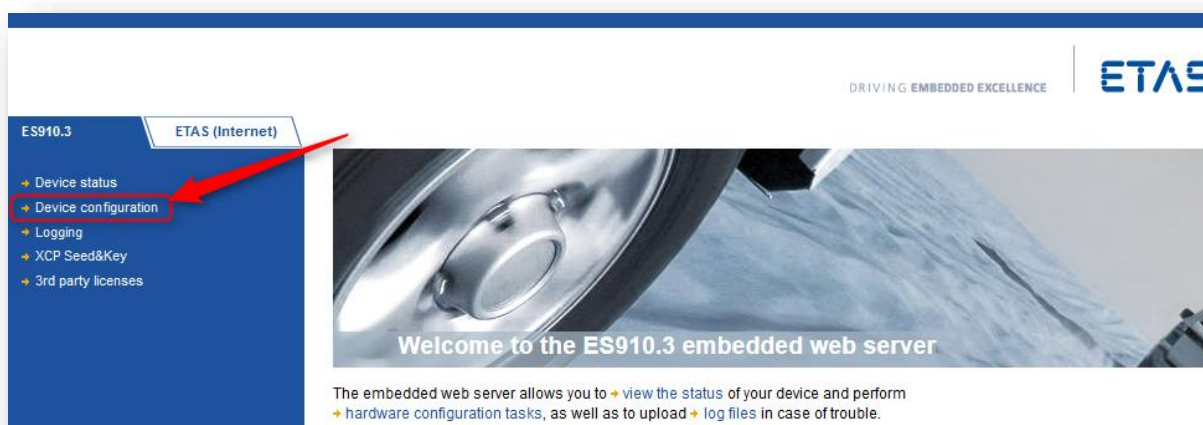
2. In **HSP Update Tool** → Tool bar → Click **Search for Hardware** button



3. In **HSP Update Tool** → **Hardware** → On **ES910**: Right mouse button click → **System configuration...**



4. In web browser → **Device configuration**



5. Wakeup configuration

The screenshot shows the ETAS configuration interface for an ES910.3 device. The left sidebar contains a tree view of configuration options. The 'Wakeup configuration' option is highlighted with a red arrow. The main content area displays the 'Device configuration' page, which includes an introduction to the hardware configuration and a 'Save config' button at the bottom right.

6. Adjust the settings according to your needs → Click **Save config** button

ES910.3 wakeup behaviour configuration interface

The ES910.3 can wake up automatically and switch from power mode 'Standby' to 'On' if a wake up condition is detected on a configured interface. Check all boxes for which you want to enable automatic device wakeup.

The wake up signal input may be filtered to prevent sporadic ESD pulses from waking up the ES910.3. Filters may be activated in groups
 Group 1: Host link pulse filter
 Group 2: CAN1 / CAN2 traffic and service port signal filter
 Group 3: Expansion slot filter (both channels)

The ES910.3 shuts down to 'Standby' if no wake up conditions are detected any more on any configured interface. The follow-up time (delay before shutdown) is configurable between 10 seconds and 10 minutes with a resolution of 5 seconds. Please note that the accuracy of the timer is approximately 5 seconds as well. The minimum required follow up time is approximately 7 seconds, setting 0 or 5 seconds will result in the minimum follow up time.

Select active wakeup channels

- PC interface link (always enabled)
- CAN1 interface traffic
- CAN2 interface traffic
- Flexray channel A/B wake up pattern
- Flexray channel A/B traffic
- Service port wake up signal

Select active filter groups

- Flexray channel A/B traffic filter (500ms)
- CAN1/CAN2 traffic and service port signal filter (500ms)
- Host link pulse filter (500ms)

Select follow-up time

Shutdown after minutes and seconds inactivity.

Save config

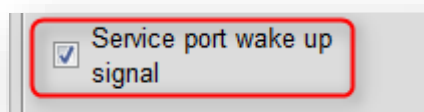
Configuration advice

Please note that in some cases the activation of a wake up filter may prevent the device from properly waking up. The following table provides some configuration advice.

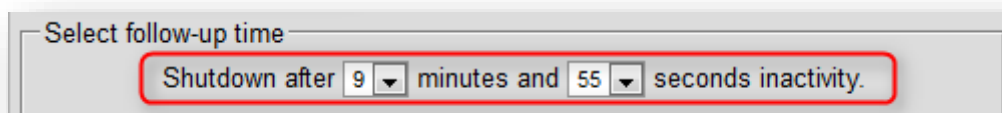
Installed Hardware	Active channel	Configuration advice
GigE NIC with power saving modes	Host (PC) link pulses	Deactivate host link pulse filter group

Example configurations:

- In order to wake the ES910 by an digital signal at the Signal Port you can configure it like shown below



- For the **shutdown** a delay of max 9:55 can be defined



Do you still have questions?

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- **Movies** corresponding to FAQ articles can be found on the [ETAS YouTube channel](#)
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- Here you can find all information: <http://www.etas.com/en/hotlines.php>

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