zenon manual

Keyblock Runtime Start

v.7.00

COPADATA
do it your way

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2. Keyblock Runtime Start

Keyblock Runtime Start is a program with which both the zenon Runtime is started and the Windows system keys are locked. Shortcuts such as `Windows` key or `Ctrl+Alt+Del` no longer have an effect.

This functionality is necessary when the zenon Runtime should run as "Shell". User can no longer access the operating system but only work on the zenon user interface.
The precondition for this is that the project properties are set `Runtime title` to `No title (full screen)`. Then zenon runs in full screen mode and the Runtime cannot be minimized.

> **License information**
>
> *Part of the standard license of the Editor and Runtime.*

3. Usage

To use `Keyblock Runtime Start`:

1. in the Windows start folder under COPA-DATA open the zenon tools

2. select `Keyblock Runtime Start`

3. the program starts and automatically starts the Runtime

4. The program locks allaccess to the operating system:

   - locked shortcuts:

   ```
   Ctrl+Esc
   Alt+Tab
   Alt+Esc
   Alt+F4
   Windows key
   ```
   When locking the system keys, the normal operation of the scroll bars with the mouse in the Runtime is also blocked. You can work around the blocking with the help of the context menu.

   - Hiding the Control Panel in the start menu
   - Locking the tool bar for operation
   - Prevents

   Changing passwords

   Closing Windows

   Logging out

   Locking the computer

User change

- Hiding all element in the task manager

> ### 💡 Info
>
> If `Keyblock Runtime Start` is started using the auto start mechanism of the operating system:
>
> ▸ take care that the auto start folder is user-specific: If an other user is logged in, the program is not executed.
>
> ▸ processing the auto start programs can be prevented by pressing `Shift` during the booting of the operating system.

This locking cannot be bypassed during Runtime. When the Runtime is closed normally, the system restrictions are canceled. If the Runtime should be operable without these limitations, the Runtime must be started instead of **Keyblock Runtime Start**.

> ### ⚠ Attention
>
> Take care that you engineer a possibility to close the Runtime in your project. There is no possibility to end the Runtime regularly.
>
> ▸ if it can only be ended by turning off the computer
>
> ▸ all system keys are still locked after a restart
>
> To make systems keys available after an irregular ending (e.g. black out):
>
> ▸ start the Runtime again with the help of **Keyblock Runtime Start**
>
> ▸ end the Runtime regularly via a close button

4. Protect Runtime files

The access to the Runtime files can be strongly restricted and therefore well protected. At this only a single Windows user has read and write rights for the Runtime folder. All other Windows user do not

have any rights in the Runtime folder including read rights. Operators in the Runtime log on as zenon user.

In order to limit access to the file system:

1. Only create a single Windows user (for instance: `zenon_ADMIN)` who is authorized to start zenon as well as to read and write in the zenon Runtime folder.

2. Disable access to the zenon Runtime folder for all other Windows users – including read authorizations!

3. Disable any remote access to the user `zenon_ADMIN`.

4. Block any software for remote maintenance or remote access such as zenon Remote Desktop.

5. Make sure that zenon can only be started if this user (`zenon_ADMIN`) is logged in.
   Since other Windows users do not have read authorization Runtime will only start in the context of this user (`zenon_ADMIN`).

6. Make sure that zenon runs as shell:

   a) For this purpose, create a zenon autostart with `Keyblock Runtime Start` (on page 5)

   b) activate the property `Lock system keys` in the group `Runtime settings` of project properties

   c) start zenon in full-screen mode: Set property `Runtime title` to `No title`

   d) also bear multi-screen systems in mind in the configuration

   e) disable Explorer start

   f) do not offer file selection dialogues
   (in this case no functions may be projected which require the user to select files in Runtime)

The access to the zenon file system is then protected.