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Compatibility answers for SmartCheck, ProLink and SmartUtility

We pioneer motion

Working with software versions

Each year we have provided several new SmartCheck / ProLink firmware and SmartUtility versions. Adding new features usually requires the measurement configuration files (when downloading the measurement settings from a device) and the measurement data to be changed to use these new features. This creates incompatibilities, since for example an older firmware doesn't understand the new features stored in the configuration file downloaded from a newer firmware version.

In this document, we explain which versions of configuration files and measurement data files can be handled by which firmware and SmartUtility versions.

In general, keep firmware and SmartUtility up to date to benefit not only from new features, but also from bug fixes and security updates, which are included in each new version. When keeping the firmware and SmartUtility up to date, all automatic mechanisms ensure that handling configurations and measurement data work seamlessly.

New firmware and SmartUtility versions can be found on our download page.

Measurement data import

Importing measurement data from the device into SmartUtility can be done either by downloading the data with the SmartUtility, or by downloading the data file from the SmartWeb and importing it in a second step into SmartUtility. The following applies to both.

The following table shows, in which combinations a SmartUtility can read or import data from a device with a certain firmware version. Green shows a working combination, red a combination which doesn't work.

Device firmware	File format / extension	SmartUtility up to 2.0.x	SmartUtility 2.2.x	SmartUtility 2.4.x	SmartUtility 3.0.x
Up to 2.0.x	.scd2	🟩	🟩	🟩	🟥
2.2.x	.scd2	🟥	🟩	🟩	🟥
2.4.x	.scd2	🟥	🟥	🟩	🟥
3.0.x	.scd3	🟥	🟥	🟥	🟩

With SmartUtility 3.0.x the import of .scd2-data is no longer possible. If this is required, then the SmartUtility 2.4.x must be used. Both versions can operate on the same database. It is possible to have both versions installed at the same time, although only one of them can run at the same time.

Email data of all 2.x-versions can still be imported into the 3.0.x.

Reading measurement configurations

Reading a measurement configuration from the device can be done either by downloading the configuration with the SmartUtility and storing it as a file, or by downloading the configuration file from the SmartWeb (firmware 2.2.x and newer).

Device firmware	SmartWeb configuration download	SmartUtility			
		2.0.x	2.2.x	2.4.x	3.0.x
2.0.x		.sc3	.sc3	.sc3	
2.2.x	.sc4		.sc3	.sc4	
2.4.x	.sc4			.sc4	
3.0.x	.sc4				sc4

.sc4-files are different between firmware versions, as they contain settings for new features in later firmware versions. See the next page to understand why this is important for writing these to devices. If you have a mixed installation base with various firmware versions, we advise to store .sc4-files in a way, that the firmware version they were downloaded from, can be recognised. For example, create directories for each firmware version (2.2.x, 2,4.x, 3.0.x) and store the downloaded configuration files under these directories. Alternatively, you can write the firmware version into the file name when downloading it.

When your devices always have the latest firmware version, this is not necessary, since the devices take care of the compatibility in this direction (i.e. upgrading an older .sc4-file to the currently running newer firmware version).

Writing measurement configurations

The following table shows, in which combination a SmartUtility can write a measurement configuration file onto a device. From firmware version 2.2.x and later, the configuration file can also be uploaded directly in the SmartWeb. Green shows a working combination, red a combination which doesn't work.

.sc4-files have an implicit version, i.e. they match the firmware version from which they were downloaded. As a rule of thumb, these can be uploaded to a device with the same or a newer firmware version. For this, only the major and minor part of the version number is relevant (see next page for an explanation). Because of the mechanism used to write .sc4-files to the device, the device will reboot after the configuration is written.

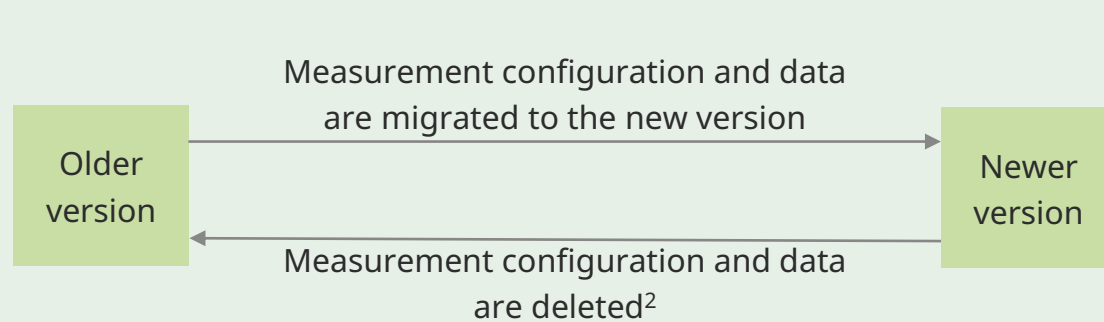| Device firmware	SmartWeb configuration upload	Upload with SmartUtility			
		2.0.x	2.2.x	2.4.x	3.0.x
2.0.x		.sc3			
2.2.x	.sc4[1]		.sc3		
2.4.x	.sc4[2]			.sc3 and .sc4[2]	. sc4[2]
3.0.x	.sc4[3]				. sc4[3]

[1] Downloaded from a firmware 2.2.x

[2] Downloaded from a firmware 2.2.x or 2.4.x

[3] Downloaded from a firmware 2.2.x, 2.4.x or 3.0.x

Updating the firmware

Firmware update

In general, it is possible to update any firmware version to any other, both upgrade as well as downgrade[1].

Measurement configuration and data are migrated to the new version

| Older version | → | Newer version |

Measurement configuration and data are deleted[2]

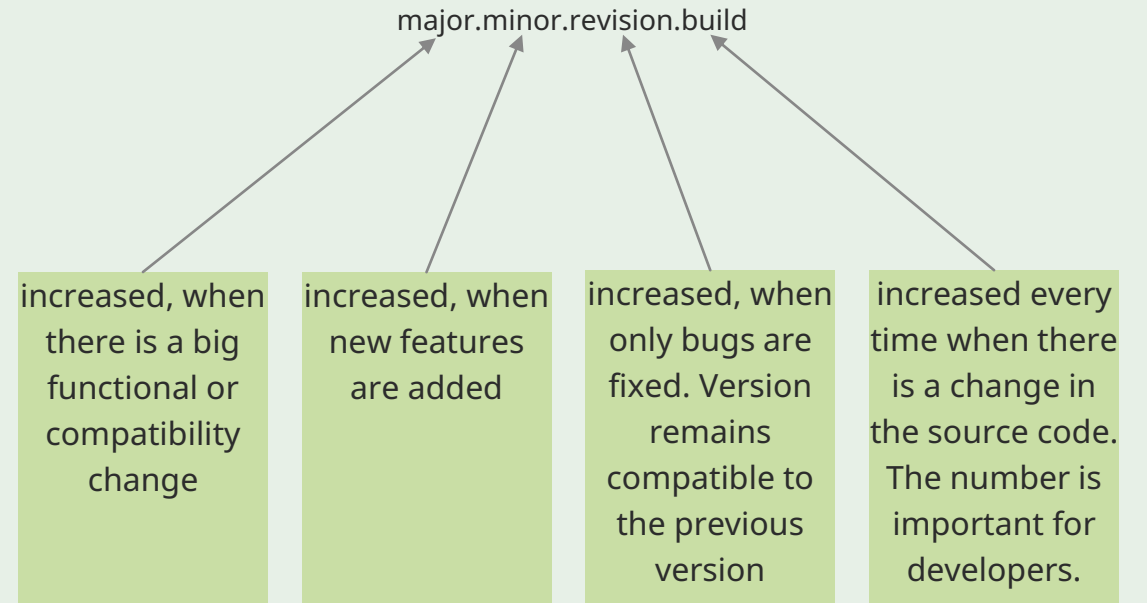[1] Valid starting with version 1.28.10. For older versions, certain combinations might cause problems. Please contact our support for specific questions.

[2] When downgrading within the same major and minor version, e.g. from 2.4.10 to 2.4.0, the measurement configuration and data will remain.

Versioning scheme

Our version numbers consist of three parts, which are relevant to the user, and a build number, e.g. 2.4.10.994934. Here is the logic behind these numbers:

major.minor.revision.build

| increased, when there is a big functional or compatibility change | increased, when new features are added | increased, when only bugs are fixed. Version remains compatible to the previous version | increased every time when there is a change in the source code. The number is important for developers. |

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