

Smart-UPS Firmware Versions

Revision 4.3.8 – March 24, 2024

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Document Revision History

- Revision 4.3.5 – July 20, 2023 – Initial version of this document
- Revision 4.3.6 – August 28, 2023 – Revised to align with the release of FUW 4.3.6
- Revision 4.3.7 – November 24, 2023 – Revised to align with the release of FUW 4.3.7
- Revision 4.3.8 – March 24, 2024 – Revised to align with the release of FUW 4.3.8

Introduction

This document serves as reference of the latest available firmware versions for all APC Smart-UPS models that are compatible with the Smart-UPS Firmware Upgrade Wizard (FUW). We recommend that customers always install and utilize the latest released firmware version for their Smart-UPS to improve functionality, minimize issues and maximize cybersecurity.

Latest Firmware Version Table

UPS Series	UPS ID	Latest Firmware Version	CVE-2022-0715	CVE-2022-22805 & CVE-2022-22806	Crypto-graphically Signed
CSH	5008	UPS 02.7	Partially Remediated	Not Applicable	No
SCL	1029	UPS 15.5	Fully Remediated	Not Applicable	Yes
	1030	UPS 15.5	Fully Remediated	Fully Remediated	Yes
	1036	UPS 15.5	Fully Remediated	Not Applicable	Yes
	1037	UPS 15.5	Fully Remediated	Not Applicable	Yes
	1048	UPS 16.5	Not Applicable	Not Applicable	Yes
	1049	UPS 16.5	Not Applicable	Not Applicable	Yes
	1051	UPS 16.5	Not Applicable	Not Applicable	Yes
SMC	1052	UPS 16.5	Not Applicable	Not Applicable	Yes
	1000	UPS 10.0	Not Remediated	Not Applicable	No
	1005	UPS 15.1	Partially Remediated	Not Applicable	No
	1007	UPS 15.0	Partially Remediated	Not Applicable	No
	1018	UPS 17.0	Fully Remediated	Fully Remediated	Yes
	1028	UPS 17.0	Not Applicable	Not Applicable	Yes
SMT	1061	UPS 02.0	Not Applicable	Not Applicable	Yes
	17	UPS 07.1	Not Remediated	Not Applicable	No
	18	UPS 15.0	Partially Remediated	Not Applicable	No
	20	UPS 15.0	Partially Remediated	Not Applicable	No
	1015	UPS 17.2	Fully Remediated	Fully Remediated	Yes
	1027	UPS 17.2	Not Applicable	Not Applicable	Yes
	1031	UPS 15.5	Fully Remediated	Fully Remediated	Yes
	1039	UPS 15.5	Fully Remediated	Not Applicable	Yes
	1040	UPS 15.0	Partially Remediated	Not Applicable	No
	1041	UPS 15.0	Partially Remediated	Not Applicable	No
	1050	UPS 16.5	Not Applicable	Not Applicable	Yes

UPS Series	UPS ID	Latest Firmware Version	CVE-2022-0715	CVE-2022-22805 & CVE-2022-22806	Crypto-graphically Signed
SMT	1059	UPS 16.5	Not Applicable	Not Applicable	Yes
	1060	UPS 02.0	Not Applicable	Not Applicable	Yes
SMTL	1026	UPS 15.5	Fully Remediated	Fully Remediated	Yes
	1047	UPS 16.5	Not Applicable	Not Applicable	Yes
SMX	20	UPS 15.0	Partially Remediated	Not Applicable	No
	23	UPS 15.0	Partially Remediated	Not Applicable	No
	1003	UPS 15.0	Partially Remediated	Not Applicable	No
	1031	UPS 15.5	Fully Remediated	Fully Remediated	Yes
	1050	UPS 16.5	Not Applicable	Not Applicable	Yes
SRC	1006	SRC5KUXI: UPS 14.0	Partially Remediated	Not Applicable	No
		SRCE6KUXI: UPS 14.1	Partially Remediated	Not Applicable	No
		SRC6KUXICH: UPS 14.2	Partially Remediated	Not Applicable	No
	1011	SRC10KUXI: UPS 14.0	Partially Remediated	Not Applicable	No
		SRC10KUXICH: UPS 14.1	Partially Remediated	Not Applicable	No
SRT	1001	UPS 02.9	Partially Remediated (Installation changes ID to 1013)	Not Applicable	No
	1002	UPS 15.1	Partially Remediated	Not Applicable	No
	1010	UPS 15.5	Fully Remediated	Not Applicable	Yes
	1013	UPS 15.1	Partially Remediated	Not Applicable	No
	1014	UPS 15.1	Partially Remediated	Not Applicable	No
	1019	UPS 15.5	Fully Remediated	Not Applicable	Yes
	1020	UPS 15.8	Fully Remediated	Not Applicable	Yes
	1021	UPS 15.6	Fully Remediated	Not Applicable	Yes
	1024	UPS 15.5	Fully Remediated	Not Applicable	Yes
	1025	UPS 15.5	Fully Remediated	Not Applicable	Yes
	1043	UPS 16.5	Not Applicable	Not Applicable	Yes
	1044	UPS 16.9	Not Applicable	Not Applicable	Yes
	1045	UPS 16.6	Not Applicable	Not Applicable	Yes
	1046	UPS 16.5	Not Applicable	Not Applicable	Yes
SRTL	1024	UPS 15.5	Fully Remediated	Not Applicable	Yes
	1034	UPS 05.6	Not Applicable	Not Applicable	Yes
	1035	UPS 05.6	Not Applicable	Not Applicable	Yes

UPS Series	UPS ID	Latest Firmware Version	CVE-2022-0715	CVE-2022-22805 & CVE-2022-22806	Crypto-graphically Signed
SRTL	1046	UPS 16.5	Not Applicable	Not Applicable	Yes
	1062	UPS 04.0	Not Applicable	Not Applicable	Yes
	1063	UPS 04.0	Not Applicable	Not Applicable	Yes
XP	1016	UPS 15.0	Partially Remediated	Not Applicable	No
XU	1017	UPS 15.6	Fully Remediated	Not Applicable	Yes
	1025	UPS 15.5	Fully Remediated	Not Applicable	Yes
	1033	UPS 15.6	Fully Remediated	Not Applicable	Yes
	1043	UPS 16.5	Not Applicable	Not Applicable	Yes
	1057	UPS 16.5	Not Applicable	Not Applicable	Yes
	1058	UPS 16.6	Not Applicable	Not Applicable	Yes

Notes:

1. Release notes are available at the links in the “Latest Firmware Version” column.
2. UPS IDs not listed above do not have available firmware updates.
3. See Schneider Electric Security Notification [SEVD-2022-067-02](#) for details on CVE-2022-0715, CVE-2022-22805 and CVE-2022-22806.
 - a. “Not Remediated” means the vulnerability is fully present, and mitigations should be used.
 - b. “Partially Remediated” means that certain aspects of the vulnerability are still present, and mitigations should be used.
 - c. “Fully Remediated” means that vulnerability is no longer present, and other mitigations are not required.
 - d. “Not Applicable” means that the vulnerability was never present.

Determining Compatible Firmware

Model Numbers

The UPS's Model Number, also known as a Part Number or SKU, can be found in several ways:

- From a label adhered to the enclosure, typically on the top, front or rear panel.
- From the *About* menu on the display:
 - SMT, SMTL, and SMX Series: **Main Menu** → **About** → **UPS Part No**
 - SRT and SRTL Series: **Main Menu** → **About** → **UPS** → **UPS Hardware** and view the **Part No**
 - SYRL Series: **Main Menu** → **About** → **UPS** → **System** and view the **SKU**
- From the [SmartConnect web UI](#), log in, select a UPS, and view the **MODEL SKU** in the **PROFILE** section
- From the Network Management Card's (NMC) web UI, log in, navigate to: **About** → **UPS** and view the **SKU**
- From the NMC's Command Line Interface (CLI), log in, run the **upsabout** command and view the **SKU**

UPS Series

The beginning non-numeric characters of a UPS's Model Number are referred to as its Series.

E.g., the Series for Model Number SMC1000 is "SMC" and the series for Model Number SMTL750RM2UC is "SMTL".

Firmware Versions

Smart-UPS firmware versions begin with the string "UPS " followed by a version number. Some interfaces will show the full string, e.g., "UPS 15.5", but most will show a combination of the firmware version string and UPS ID, e.g., "UPS 15.5 (ID1026)" or "v 15.5 (1026)".

UPS IDs

Every Smart-UPS that supports customer upgradable firmware has an associated UPS ID. UPSs with same model numbers may have any of several IDs based on their underlying hardware. On rare occasions, firmware updates will change the ID of a UPS.

Identifying Installed Firmware Versions and UPS IDs

The installed firmware version and UPS ID can be found in several ways:

- From the **About** menu on the display:
 - SMT, STML, and SMX Series: **Main Menu** → **About** → **Running UPS FW** or **UPS Firmware**. See: [Video](#)
 - SRT Series: **Main Menu** → **About** → **UPS** → **(UPS) Firmware** and view the **Running UPS FW** or the **Revision**
 - SRTL Series: **Main Menu** → **About** → **UPS** → **Running UPS Firmware** and view the **Revision**
 - SYRL Series: **Main Menu** → **About** → **UPS** → **System** and view the **Firmware**

- From the [SmartConnect web UI](#), log in, select a UPS, expand the **FIRMWARE** section, and view the **CURRENT VERSION**
- From the Network Management Card's (NMC) web UI, navigate to: **About -> UPS** and view the **Firmware Revision**
- From the NMC's Command Line Interface (CLI), run the **upsabout** command and view the **Firmware Revision**

Firmware Filenames

Firmware filenames typically consist of a combination of the UPS Series, the UPS ID, the firmware version, with spaces replaced by underscores and the decimal points replaced by hyphens, and a ".enc" suffix. E.g., "SRT1010UPS_15-5.enc"

In a few cases where a single firmware file can be used on multiple Series, the filename will begin with a combination of multiple Series prefixes.

E.g., "SMTSMX1031UPS_15-5.enc"

For certain SRC series UPSs, model specific firmware is required. In those cases, the firmware filename will begin with the model number.

E.g., "SRCE6KUXI_ID_1006_UPS_14-1.enc"

Firmware Compatibility

Before attempting to install firmware, it's important to identify the correct filename by

matching up the Series and ID at the start of the filename and selecting the highest available version. Additionally, for SRC models, the filename must begin with the matching model number. Note that UPSs won't accept firmware with an ID that does not match the currently installed firmware.

Firmware Downgrading

As stated above, we recommend that customers always use the latest available firmware, but under rare circumstances, it might be necessary to install an earlier version, which is known as downgrading. Downgrading should only be done when recommended by Schneider Electric / APC Technical Support.

Cryptographic firmware signing ensures that only signed firmware provided by Schneider Electric can be installed on Smart-UPS models that support it. Consequently, downgrading from signed firmware to unsigned firmware is not possible. It is only possible

downgrade from newer unsigned firmware to older unsigned firmware, or from newer signed firmware to older signed firmware. Upgrading from unsigned firmware to signed firmware is possible and encouraged to improve cybersecurity.

Downloading and Installing UPS Firmware

There are several ways to obtain and install UPS firmware. The recommended and most reliable method is to use the Smart-UPS Firmware Upgrade Wizard, via a serial or USB connection.

- For most models, see [FA279197](#) for details.
- For SRC series models, see [FAQ000239180](#) for details.

However, there are alternative methods that may be more convenient:

- Using the [SmartConnect web UI](#)
- Using the NMC's web UI, see [FA170679](#) for details.
- Using the NMC's CLI, see [FAQ000242942](#) for details.

Notes:

1. Some UPS FW versions prevent UPS firmware updates from the SmartSlot (e.g., NMC) and others allow configuration of which interfaces can be used to update UPS firmware. See [FAQ000244385](#) for details.
2. All UPSs allow firmware updates to be installed when their output is off. Newer models also allow firmware updates to be installed when their output is on. See [FA279197](#) for details.