

AP98275: UPS Signalling Bundle for IBM AS/400 & IBMi (IBM Power Systems)

Overview

What is the AP98275 Signalling Bundle?

This bundle enables IBM[®] servers (AS/400 and IBMi systems) to communicate with Smart-UPS and Symmetra UPS devices from APC by Schneider Electric.

It consists of:

- **communication cables:** 940-0031 (9-pin male cable), 940-0006 (15-pin male cable), 940-0274 (9-pin male to female cable),
- and a **dongle connector**, 940-3000 (RJ45 to 9-pin female dongle).

Use one of the supplied cables (with, in some instances, the dongle) to directly connect your IBM AS/400 or IBMi system with your UPS device. This facilitates unattended shutdowns and avoids potential system corruption.



In previous APC by Schneider Electric bundles, the cables above came separately. This new bundle combines the cables with the new dongle to offer a single solution to all the connectivity issues. See "Which cable should you use?".

Why use the AP98275 Signalling Bundle?

The installation of a stand-alone UPS without using this bundle provides protection against brief power outages, brownouts, and other power line transients.

However, to protect your system from corruption that is caused by extended power outages, you must use this bundle. Then, your IBM system's built-in UPS Monitoring function can check the UPS status, alert you about power problems, and automatically shut down the system.

System Requirements for AP98275

One of these IBM systems, (see also "Which cable should you use?"):

- An IBM AS/400 Model 9402, 9404, or 9406
- IBMi system, POWER series 5, 6, 7

Any of the APC by Schneider Electric UPS range of UPS device types below. The Smart-UPS devices are listed by prefix, e.g. SURT.

SU	SRT	Symmetra LX
SURT	SUA	SURTA
SUM	SMC	SURTD
SMT	SMX	Symmetra RM

Installing the AP98275

Which cable should you use?

Each combination of an IBM system and a UPS device needs a cable (and in some cases a dongle) from the AP98275 bundle. The table below lists the supported combinations in rows:

IBM Server Model	UPS Device and Appropriate Cable in AP98275	
	SURTD, SMT, SRT, SMX, SMC	SU, SUA, SURT, SURTA, SUM, Symmetra LX, Symmetra RM
IBM AS/400 older 9402, 9404 models	940-0006 and 940-3000 (dongle)	940-0006
newer 9402, all 9406 models	940-0031 and 940-3000 (dongle)	940-0031
IBMi: POWER series 5, 6	940-0031 with f/c ¹ 1827 ² and 940-3000 (dongle)	940-0031 with f/c ¹ 1827 ²
POWER series 7 with RJ45 port	940-0031 with f/c ¹ 1827 ² and f/c ¹ 3930, and 940-3000 (dongle)	940-0031 with f/c ¹ 1827 ² and f/c ¹ 3930
POWER series 7 with DB9M port	940-0031 with f/c ¹ 1827 ² and 940-3000 (dongle)	940-0031 with f/c ¹ 1827 ²
POWER series with no on- box UPS communication support	940-0031 (with f/c ¹ 1827 ² , f/c ¹ 3930 depending on the server), and 940-3000 (dongle), as well as an IBM expansion drawer such as 5877 or 58023	940-0031 (with f/c ¹ 1827 ² , f/c ¹ 3930 depending on the server), as well as an IBM expansion drawer such as 5877 or 58023

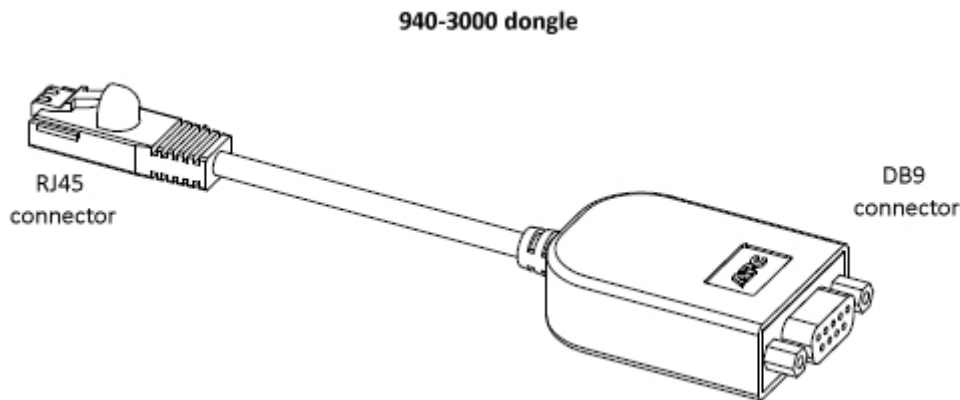
¹ f/c is an IBM term meaning feature code; for example, the f/c 1827 is the IBM feature code 1827 service processor communications port to UPS cable.

² Alternatively, you can use cable 940-0274, without an IBM f/c 1827 adaptor. However, you will not receive a UPS-detected signal when using cable 940-0274. Further information is available from the Knowledge Base by searching for FA159551: <http://www.apc.com/site/support/index.cfm/faq/index.cfm>.

³ This IBM link that provides information on expansion drawer and scenarios on where to use the item: <http://pic.dhe.ibm.com/infocenter/powersys/v3r1m5/index.jsp?topic=/areab/areabfc5802.htm>.

Installation Steps

1. Attach your IBM system to the UPS device using the IBM **power cord**.
2. If your UPS needs the **dongle** (940-3000), attach the RJ45 connection on the dongle to your UPS port.
Attach the DB9 connection (female) on the dongle to the correct AP98275 communication cable and attach the other end of the cable to your IBM system.



3. Choose and attach the correct **communication cable** for your system, see "Which cable should you use?"
 - Ensure that you connect the cable correctly; for example, connect the end labeled 'UPS END' to the UPS, either directly to the UPS DB-9 port or, if required, to the DB-9 port of the 940-3000 dongle.
 - Consult the IBM documentation to identify which serial port to use for UPS communication on the server, for example "T2" or "S2".
 - Follow the IBM instructions to configure the port for UPS communications.
4. Your IBM system should register an attached UPS*. If it does not and the instructions in this document have been followed correctly, you should contact IBM.

* You will not receive a UPS-detected signal when using the 940-0274 cable. Further information is available from the Knowledge Base by searching for FA159551: <http://www.apc.com/site/support/index.cfm/faq/index.cfm>

Setting Up Monitoring and Shutdown

Options in Monitoring and Shutting Down

This AP98275 signalling bundle can be used in conjunction with monitoring/ shutdown solutions.

- IBM systems have **native monitoring/ shutdown** functionality which you can use.
- On other systems, for example Windows, an alternative is to use the **PowerChute Network Shutdown** software from APC by Schneider Electric and create a command file to shut down your IBM system machine over the network.

This command file can be executed by any other PowerChute Network Shutdown client installed on a supported operating system (see www.apc.com/wp/?um=200). You are responsible for creating this command file.

Useful Links

Extensive information on UPS connections for IBM Power Systems hardware is in the hardware information center at the following URL:

<http://publib.boulder.ibm.com/infocenter/systems/scope/hw/index.jsp>

PowerChute Network Shutdown Operating System, Processor, JRE and Browser Compatibility Chart:

www.apc.com/wp/?um=200.

Customer support and the knowledge base for APC by Schneider Electric products at:

www.apc.com/support.

Customer support and warranty information is available at the APC Web site, **www.apc.com**.

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