Microcontroller Technical Information

		Document No.	ZBG-CD-08-0049		1/1
SP850 V850 Software Package Usage Restrictions		Date issued	November 25, 2008		
		Issued by	Development Tool Solution Group Multipurpose Microcomputer Systems Division Microcomputer Operations Unit NEC Electronics Corporation		
Related documents	–	Notification classification	√	Usage restriction	
				Upgrade	
				Document modification	
				Other notification	

1. Affected product

　SP850 V4.30

2. New restriction

　This notification concerns the following restriction. For details, see the attachment.

　• No. 3 Restriction on installing/uninstalling a tool (2)

3. Workaround

　The following workaround is available for this restriction. For details, see the attachment.

　• No. 3 There is no workaround.

4. Modification schedule

　Modified products will be released as SP850 V4.40, at the end of February 2009.

　*　Note that this schedule is subject to change without notice. For the detailed release schedule of modified products, contact an NEC Electronics sales representative.

5. Restriction history

　Notes on using the SP850, including the restriction history and detailed information, will be described on the following pages.

6. Document revision history

Document Number	Issued on	Description
SBG-DT-03-0013-E	January 29, 2003	1st edition
ZBG-CD-06-0031	April 10, 2006	Addition of new restriction (No. 2)
ZBG-CD-08-0049	November 25, 2008	Addition of new restriction (No. 3)

Usage Restrictions of SP850

1. Product History

No.	Bugs and Changes/Additions to Specifications	Version							
		V1.00	V2.00	V3.00	V3.10	V4.00	V4.10	V4.20	V4.30
1	Restriction related to security hole in Java Runtime Edition 1.3.1_03	–	–	×	×	○	○	○	○
2	Restriction on installing/uninstalling a tool	–	–	–	–	×	×	○	○
3	Restriction on installing/uninstalling a tool (2)	–	–	–	–	–	–	–	×

×: Applicable, ○: Not applicable, –: Not relevant

2. Details of Usage Restrictions

No. 1 Restriction related to security hole in Java Runtime Edition 1.3.1_03

[Description]

A security hole has been found in Sun Microsystems Java Runtime Edition 1.3.1_03 (hereafter abbreviated as JRE 1.3.1_03) that is used in the performance analysis tuning tool TW V1.00.
This security hole does not affect the operation of TW V1.00.

The first effect of the JRE 1.3.1_03 security hole is that execution of an arbitrary code is enabled on zlib. zlib is a compressed library used by many applications. zlib cannot handle the processed compressed data block appropriately. If this weak point is attacked, an arbitrary code may be executed from the remote station. See the following website for details of this security hole.
   http://sunsolve.sun.com/pub-cgi/retrieve.pl?doctype=coll&doc=secbull/220&type=0&nav=sec.sba

The second effect is that security checks may be disturbed by the remote station. This is because the new object instance can be created in a class constructor created by the Java Bytecode Verifier using the processed Java Bytecode without calling an appropriate initialization method, which enables avoidance of the security check. See the following website for details of this security hole.
   http://sunsolve.sun.com/pub-cgi/retrieve.pl?doc=fsalert%2F49304

[Workaround]

These security hole problems can be avoided by implementing the following settings. However, these workarounds cannot be applied when using a browser that cannot disable the use of Java completely, such as Internet Explorer and a Netscape version earlier than 6, in a PC (Windows) in which JRE 1.3.1_03 is installed in order to use TW V1.00.

(1)   Open [Java Plug-in Control Panel] by selecting [Start] → [Settings] → [Control Panel] → [Java Plug-in 1.3.1_03], clear [Enable Java Plug-in] on the [Basic] tab, then click the [Apply] button.

(2)   Disable the use of Java in the security setting of the browser.

TW V1.00 can be used without being affected by this security hole problem by implementing the above settings.
Avoid using a browser that cannot disable the use of Java completely, such as Internet Explorer and a Netscape version earlier than 6.

[Action]

This issue has been corrected in V4.00.

No. 2 Restriction on installing/uninstalling a tool

[Description]

If either of the following tool products is selected upon installation or uninstallation, some items such as shortcuts will be lost.

- SM+ for V850 V2.00 practical sample program (available only in the Japanese version)
- SP850 V4.10 Relation File

The items that are placed in the following folders may be deleted.

Windows Version	Folder
Windows XP	C:\Document and Settings\All Users\Start Menu\Programs
Windows 2000	
Windows NT	C:\Winnt\Profiles\All Users\Start Menu\Programs
Windows Me	C:\Windows\Start Menu\Programs
Windows 98	

(When Windows is installed in drive C)

The files in the above folders may be deleted if one of the following conditions is satisfied.
(The original file that is linked to the shortcut is not deleted.)

- The file linked to the shortcut is missing
- The shortcut with which an argument is specified for the link destination
- The shortcut specifies the link to a work folder
- Other than a shortcut

If a shortcut is deleted, the deleted item will not be displayed in the following menus.

- Start menu
- Administrative Tools (Control Panel)

Information on the deleted file will be lost, so the deleted file will no longer be identified nor restored.

[Workaround]

There is no workaround.

[Action]

This issue has been corrected in V4.20.

No. 3 Restriction on installing/uninstalling a tool (2)

[Description]

If either of the following tool products is selected upon installation or uninstallation, some items such as shortcuts will be lost.

- SM+ for V850 V2.00 practical sample program (available only in the Japanese version)
- SP850 V4.30 Relation File

The items that are placed in the following folders may be deleted.

Windows Version	Folder
Windows XP	C:\Document and Settings\All Users\Start Menu\Programs
Windows 2000	

(When Windows is installed in drive C)

The files in the above folders may be deleted if one of the following conditions is satisfied.
(The original file that is linked to the shortcut is not deleted.)

- The file linked to the shortcut is missing
- The shortcut with which an argument is specified for the link destination
- The shortcut specifies the link to a work folder
- Other than a shortcut

If a shortcut is deleted, the deleted item will not be displayed in the following menus.

- Start menu
- Administrative Tools (Control Panel)

Information on the deleted file will be lost, so the deleted file will no longer be identified nor restored.

[Workaround]

There is no workaround.

[Action]

This issue will be corrected in V4.40.