SIEMENS

SIMATIC HMI

Annex 1

Description of error "Button as Direct Key" functionality on Windows-based touch panels

ProTool 6.0
ProTool 6.0 with Service Pack 1

Date 12.09.2002

Safety notices

This supplement contains notices which you must observe for your own personal safety and to avoid material damage. These notices are highlighted according to the degree of danger as follows:



Danger

indicates that death, severe personal injury **will** occur if the proper precautions are not taken.



Warning

indicates that death, severe personal injury **can** occur if the proper precautions are not taken.



Caution

with a warning triangle, indicates that slight personal injury can occur if the proper precautions are not taken.

Caution

without a warning triangle, indicates material damage can occur if the proper precautions are not taken.

Beware

indicates that an undesired result or state can occur if the corresponding notice is not observed.

Note

contains particularly important information about the product, handling of the product or that part of the documentation to which your attention is drawn.

Imprint

Edited and published by: A&D PT1

Copyright Siemens AG 2002 All rights reserved

The transmission and reproduction of this document, and the use and divulgence of its contents are not permitted unless expressly permitted. Offenders will be liable for damages. All rights, including rights created by pattern grant or registration of a utility model or design, are reserved.

Siemens AG
Automation & Drives Group
Business Unit: SIMATIC HMI
Postfach 4848, D-90327 Nuremberg

Disclaimer of liability

We have checked the contents of this publication for agreement with the hardware and software described. Since deviations cannot be ruled out, we cannot guarantee full agreement. The details in this publication are reviewed regularly and any necessary corrections are incorporated in subsequent editions. Suggestions for improvements are always welcomed.

© Siemens AG 2002
Subject to change.

"Button as Direct Key" functionality 1



Warning

The "Button as Direct Key" functionality must not be used on Windows-based touch panels.

Use of the direct key functionality on Windows-based touch panels results in the error scenarios described below.

1.1 Affected products

This applies to versions 6.0 and 6.0 with Service Pack 1 of ProTool/Lite, ProTool and ProTool/Pro Configuration in connection with the operating units listed below:

Software

Product	MLFB
ProTool/Lite 6.0	6AV6580-3BX06-0AX0 6AV6580-3BX06-0AX4
ProTool 6.0	6AV6581-3BX06-0AX0 6AV6581-3BX06-0AX4
ProTool/Pro Configuration 6.0	6AV6582-2BX06-0AX0 6AV6582-2BX06-0AX4 6AV6582-2BX06-0AW0
ProTool/Lite 6.0 with Service Pack 1	6AV6580-3BX06-0BX0 6AV6580-3BX06-0BX4 6AV6580-3BX06-0BV0
ProTool 6.0 with Service Pack 1	6AV6581-3BX06-0BX0 6AV6581-3BX06-0BX4
ProTool/Pro Configuration 6.0 with Service Pack 1	6AV6582-2BX06-0BX0 6AV6582-2BX06-0BX4 6AV6582-2BX06-0BV0

Operating units

Product	MLFB
TP 170B Bluemode TP 170B Color	6AV6 545-0BB15-2AX0 6AV6 545-0BC15-2AX0
TP 270 5.7” TP 270 10.4”	6AV6 545-0CA10-0AX0 6AV6 545-0CC10-0AX0
MP 270B Touch	6AV6 545-0AG10-0AX0
MP 370 Touch	6AV6 545-0DA10-0AX0

Note

All other operating units and ProTool/Pro Runtime 6.0/6.0 with Service Pack 1 are not affected by the error scenarios described in the following.

1.2 Error scenario: Triggering of concealed buttons

On Windows-based touch panels, a button configured as a direct key can trigger an event even though it has not been directly operated.

This happens when another window or another application, such as the on-screen keyboard, message window, screen saver, etc., conceals this button and the application is run in the area of the concealed button.



Warning

Unintentional actions on the system can be initiated by operating the button and might possibly result in persons being endangered or in material damage.

Message window

You have configured one or more buttons with the direct key function in a process screen.

When, say, an alarm message is active, the alarm message window is displayed to acknowledge the message. The message is acknowledged by touch operation of the "ACK" button in the message window.

If one of the configured direct keys is located under this "ACK" button, it will similarly be triggered and the effect on the system is activated (Motor On, for example).

This problem affects every operation of the message window (Help, Scroll, Select, Close Window).

Other cases

The following operations on the touch panel can similarly activate concealed buttons with direct key function:

- Cancel screen saver
- Enter a value using the on-screen keyboard
- Run an external application such as Internet Explorer
- Cover with other screen objects such as a rectangle or input field
- Activate Clean Screen
- Other system dialog boxes which completely or partially conceal a button with direct key function.

1.3 Error scenario: Dynamic updating of button

On Windows-based touch panels, a button which has been configured as a direct key and whose position or display is dynamically updated as a function of process values can be triggered by mistake.

The operating area of a button with the direct key function is always defined statically for the configuration status.

If, for example, the position or display of the button depends on process values, the position or effectiveness of the operating area for the direct key function is static and does not change as a result.



Warning

Unintentional actions on the system can be initiated by operating the button and might possibly result in persons being endangered or in material damage.

1.4 Determining affected projects

To determine whether you are using the "Button as Direct Screen" functionality in your project, perform the following steps:

	Procedure
1	Open the project you want to check in ProTool CS.
2	Choose "View" > "Cross-Reference" from the menu.
3	In the "Object type" selection field (default "Controllers"), select the "Function" entry.
4	In the "Object" selection field (default "<no object>“), look for the entry "Direct_key".
5	If this entry is present, your project is affected by the described error scenario.

1.5 Further action

The direct key functionality must not be used for the aforementioned operating units.



Warning

Existing configurations that use the described functionality in connection with direct key functionality must be changed immediately.

Our Technical Support service is available to provide you with the assistance you require in reconfiguring or with other issues.

Technical Support

Subject: ProTool 6 "Button as Direct Key"

Phone:+49 (0) 180 5050 222

Fax: +49 (0) 180 5050 223

By e-mail: adsupport@siemens.com

Error rectification

The error has been rectified in version 6.0 with Service Pack 1a of ProTool/Lite, ProTool and ProTool/Pro Configuration. All affected users registered with Technical Support will be sent the service pack free of charge when available.

The scheduled delivery release of ProTool 6.0 with Service Pack 1a is October 2002 (not later than week 41).

When this version is used, the "Button as Direct Key" functionality for Windows-based touch panels will be available as described in the documentation.

Note

Even if you are not personally affected by this problem but have passed on ProTool 6.0 or ProTool 6.0 with Service Pack 1 to other persons, it is your duty to forward this information to the parties concerned.

Further information will be found on the Internet at
http://www4.ad.siemens.de:8080/view/csi/de/12876424
or can be obtained from Technical Support.