
Okuma America Corporation

**Okuma THINC Startup Service
Installation and User Manual**

**Document No. S5085-130-04
Product Version: 5.2.0.0**

Okuma THINC Startup Service	Document No S5085-130-04
Installation and User Manual	Date: 2022-03-12

Revision History

Date	Version	Description	Author
2017-05-26	S5085-130-00	Product Version 4.4.0.0	Casey M. Croussore
2018-06-04	S5085-130-01	Product Version 4.6.0.0	Casey M. Croussore
2022-01-22	S5085-130-02	Product Version 5.0.0.1; 5.0.0.2	Casey M. Croussore
2022-03-12	S5085-130-04	Product Version 5.2.0.0	Casey M. Croussore

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1. Introduction

The purpose of the Okuma THINC Startup Service (hereafter TSS) is to launch customer applications when, and only when, the Okuma OSP System (NC Control) software has fully booted *and* the Okuma THINC API is available.

Applications which rely on the THINC API should be registered with the TSS to be launched by it, rather than performing independent checks to determine THINC API status.

2. Definitions

2.1.1 Startup Item: Any Application, Windows Service, or file which is registered with the THINC Startup Service to be run when the control starts.

2.1.2 TSS: THINC Startup Service

3. Version Information

- As of this time, v5.0.0.1 is the latest version that will support Windows XP
- Version 5.2.0.0 supersedes v5.0.0.2 in the US market, and supports only:
 - THINC API v1.19.0.0 and higher
 - Windows 7
 - Windows 10
- At a later date, a single unified version, supporting Windows XP, Windows 7 and Windows 10 will be released

Note: Windows XP is also supported in versions 4.4 and 4.6.

4. Installation

4.1 Installation Prerequisites

4.1.1 Software which is installed during installation of the TSS

- THINC API v1.19.0.0 or higher
- Microsoft .NET Framework v4.0 (full)
- Windows 7 or Windows 10 (Windows XP is not supported in this release)

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4.2 Product Installation

4.2.1 Installation of Prerequisite Software

4.2.1.1 “Windows Only Mode”: It is not necessary to install the TSS in Windows Only Mode. However, if installation is done with the OSP Systems software running, a shortcut to the “Startup Settings” will not appear on the Vertical Function Key Menu until the control is re-started.

4.2.1.2 Locate “Setup_Okuma THINC Startup Service*.exe”

4.2.1.3 Double-click “Setup_Okuma THINC Startup Service*.exe” to begin installation.

4.2.1.4 The following will be displayed. Click “Next” to proceed.



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4.2.1.5 Confirm the installation path and confirm installation:





4.2.1.6 Progress will be displayed. Once installation of the TSS is complete, the following will be displayed. Click "Close" to exit the installer.

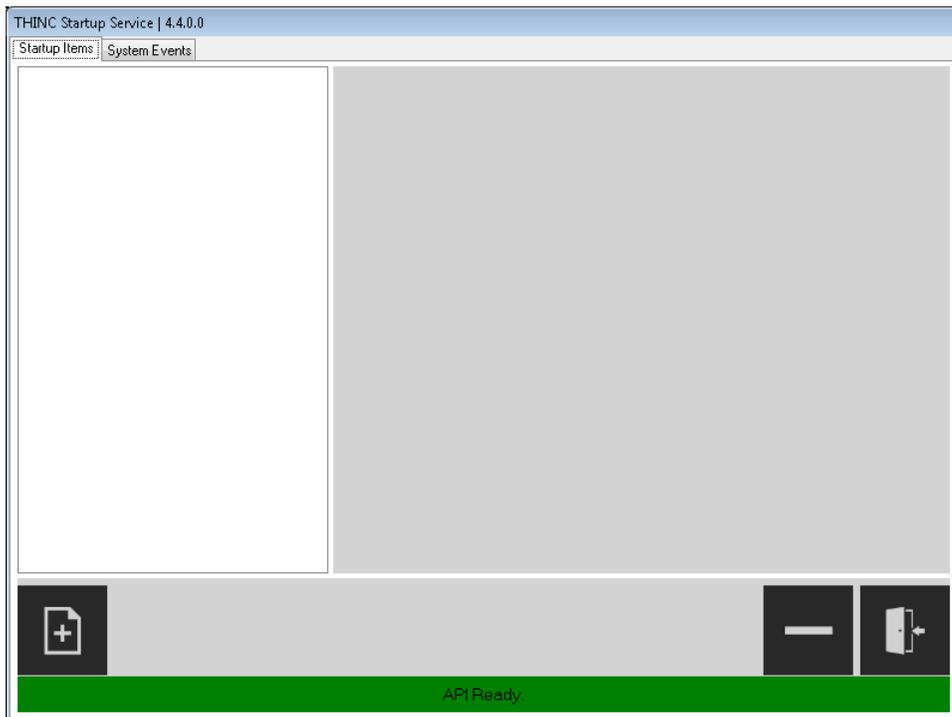
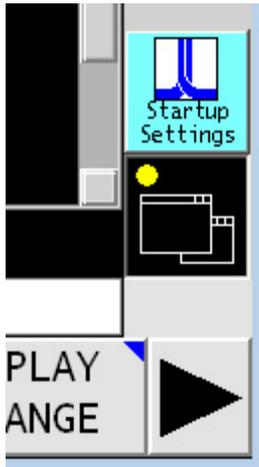


5. Operation

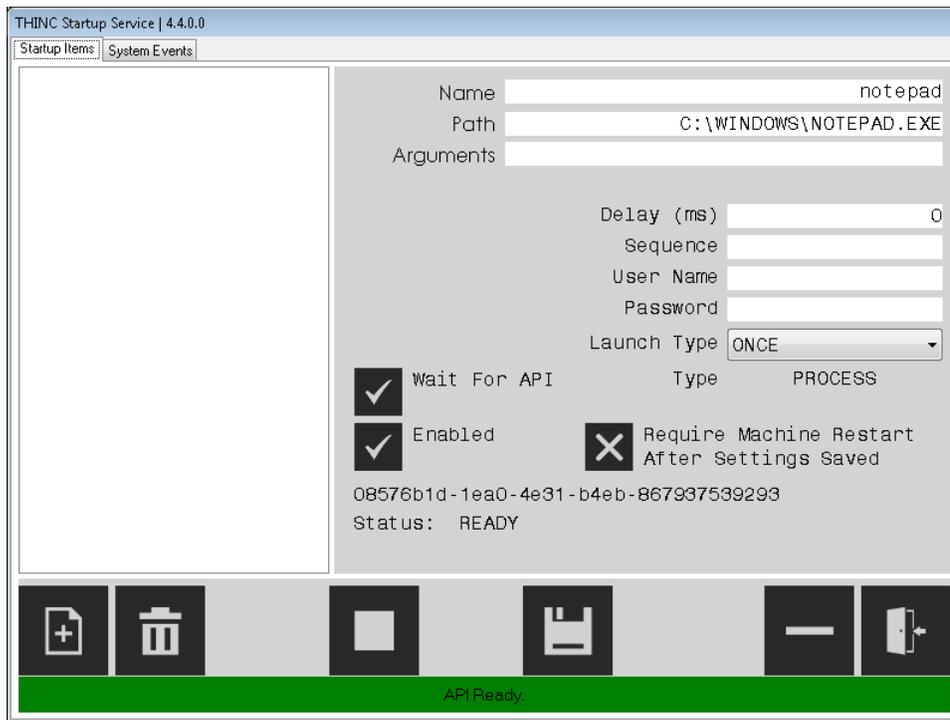
5.1 Launching the TSS

The TSS runs automatically when the machine starts. It will launch any Startup Items under its control without user intervention.

To access the user interface and settings, locate the shortcut on the Vertical Function Key menu:



5.2 Startup Item Settings



There are several settings which can be applied to any Startup Item:

NAME	User-defined identifier for the Startup Item. NAME must be unique. If it is not, the TSS will assign a unique name. Example: If “Notepad” is added more than one time, the new entries will be incremented: “Notepad_(1)”; “Notepad_(2)”; etc.
PATH	Full path to the file or executable file to be launched. This setting is not used if the Startup Item is a Service.
ARGUMENTS	Command line arguments to be applied when the Startup Item is launched.
DELAY	When all other startup conditions are met, the DELAY represents the number of additional milliseconds that the TSS will wait before starting the Item.
SEQUENCE	Process name which must exist before the Startup Item will be launched.
USER NAME	User name under which to run the Process, file or Service
PASSWORD	Password associated with the USER NAME
LAUNCH TYPE	Choose from “ONCE” or “MONITOR” ONCE: The Startup Item is launched one time when the machine is started. If the user closes the file or process, the TSS does not attempt to re-launch it. MONITOR: The Startup Item is launched when the machine is started. If the user closes it, the TSS will attempt to re-launch it.
TYPE	Indicates whether the Startup Item is a Windows Process or a Windows Service
WAIT FOR API	If checked the Startup Item will not be launched until the THINC API is available. If un-checked, the Startup Item will be launched immediately after the TSS itself starts.
ENABLED	Indicates whether the Startup Item being edited is enabled or disabled.
Require Machine Restart After Settings Saved	The user will not be prompted to re-start the Startup Item after saving settings. The Startup Item will only re-start when the machine is re-started.

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Identification Indicator: This shows the ID of the Startup Item. This value cannot be changed by the user, and is only used in the internal functions of the TSS:



5.3 Startup Items' Status

Below is a description of each Status that may be seen on the Status line of the TSS, reflecting the actual Status of the selected Startup Item.

COMPLETE	All startup actions are complete
DELAY_DONE	Item has completed any DELAY wait
DELETING	Item is in the process of being deleted
DISABLED	Item is disabled; will not start at machine start
FAILED	Item has encountered a critical error
LOCK_WAITING_SERVICE	Item is waiting for its Service to start or stop
MONITORING	Item has started, and is monitoring its process
READY	Item has not yet started, but is enabled
RESTART_REQUESTED	Restart of Item is pending
STARTING	Item is starting, but has not entered any waiting period yet
STOPPED	Item is stopped forcibly
STOPPING	Item is stopping due to user request
WAITING_API_DONE	Waiting for THINCAPI availability is finished
WAITING_API_OK	Item is waiting for THINCAPI availability
WAITING_DELAY	Item is waiting its specified DELAY value
WAITING_SEQUENCE	Item is waiting for its SEQUENCE process to start
WAITING_SEQUENCE_DONE	Item has completed waiting for its SEQUENCE process (if any) to start

5.4 Adding a Startup Item

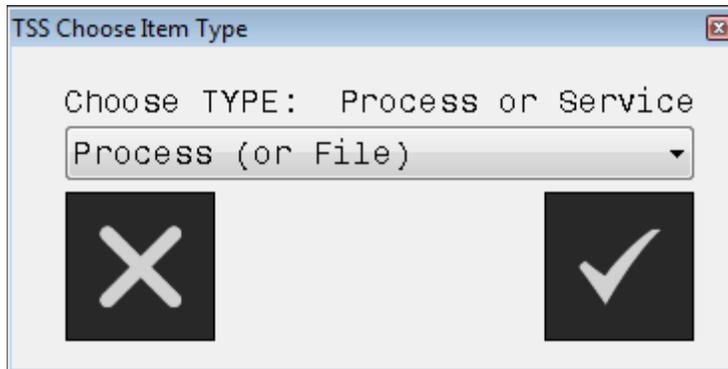
5.4.1 Click the Add Item button (Alternatively, the user can 'drag and drop' the executable or other file to the

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main form and the new Startup Item's information will be populated).

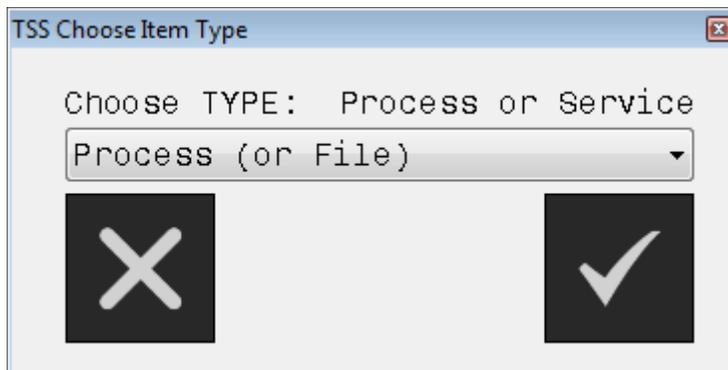


5.4.2 The following dialog is displayed. Choose the Startup Item type from “Process (or file)” or “Service.” If using “Process (or file)”, any process (.exe) or file on the computer can be chosen. Choosing “Service” will allow the user to select a Windows Service.

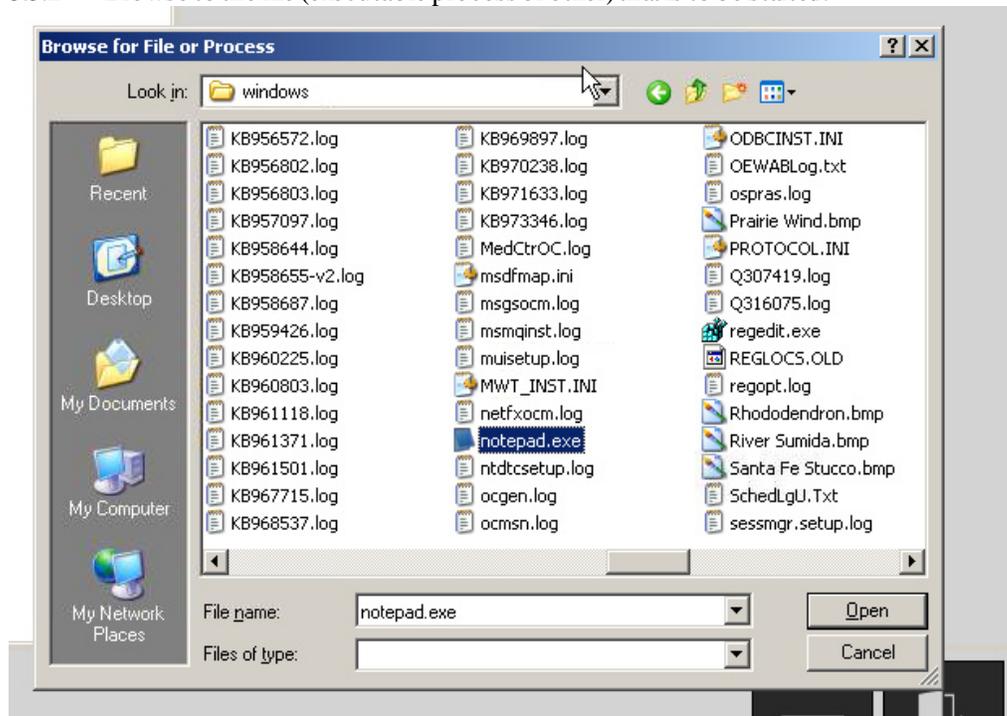


5.5 Adding a Process or File

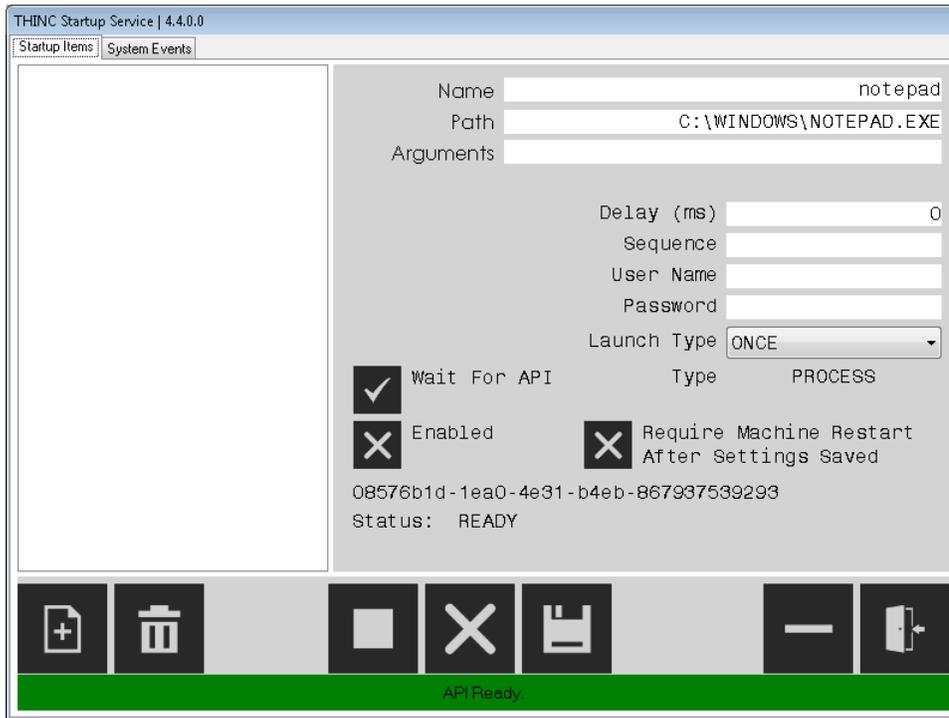
5.5.1 Choose “Process (or File)”



5.5.2 Browse to the file (executable process or other) that is to be started.



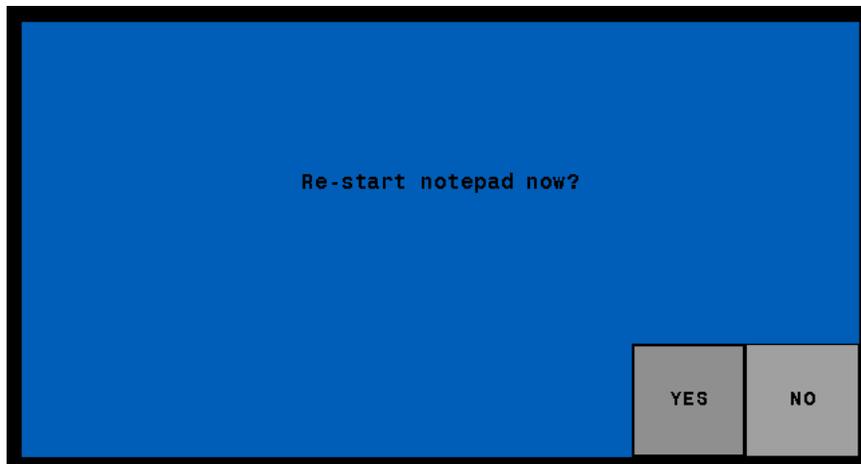
5.5.3 Once selected, the settings for the new Startup Item will be displayed



5.5.4 When editing is finished, click the Save button. *The new Startup Item is not added to the Startup Item List until it is saved.*



5.5.5 If the Startup Item is Enabled, the user will see the following question:



Click 'Yes' to start the Item immediately, or 'No' to wait until the next time the machine is started.

5.5.6 To cancel edits, click the Cancel button

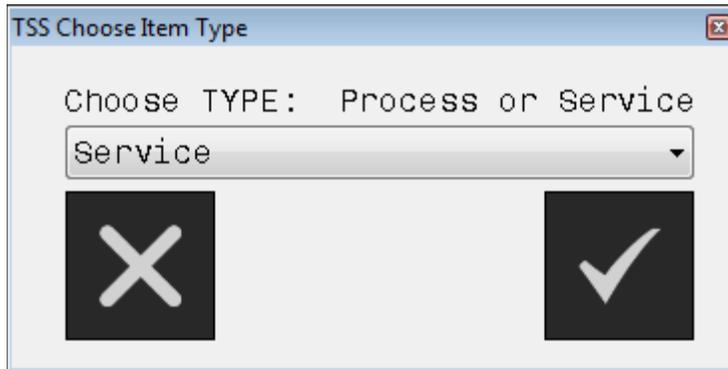
Note: After changes are saved, they cannot be cancelled using this button.

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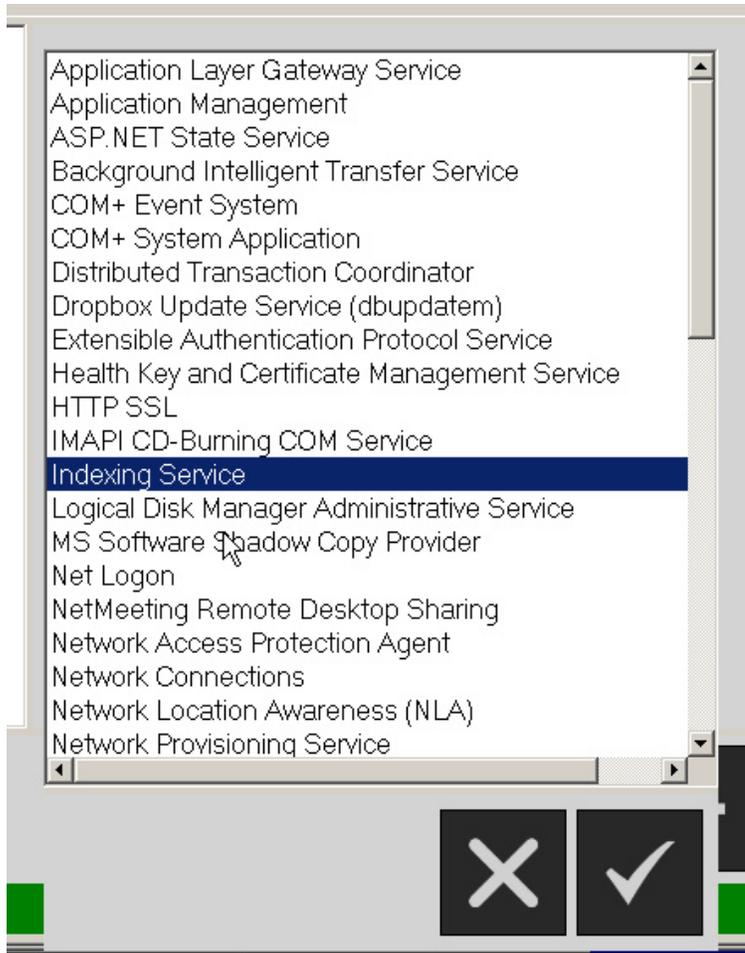
5.6 Adding a Service

5.6.1 Select Service



5.6.2 A list of Windows Services will be displayed.

Note: Only Services which are set to start manually will be displayed.



5.6.3 The Settings for the Service will be displayed.

The screenshot shows the 'Service Configuration' dialog box for a service named 'notepad'. The fields are as follows:

- Name: notepad
- Path: C:\WINDOWS\notepad.exe
- Arguments: (empty)
- Delay (ms): 0
- Sequence: (empty)
- User Name: (empty)
- Password: (empty)
- Launch Type: ONCE (dropdown menu)
- Wait For API: (checked)
- Type: PROCESS
- Enabled: (checked)
- Require Machine Restart After Settings Saved: (checked)
- GUID: 19075d7c-2f50-4b96-8f1c-a9ec7e84e5d9
- Status: DISABLED

5.6.4 Once editing is complete, click the Save button, and the Service will be added to the Startup Itemlist.

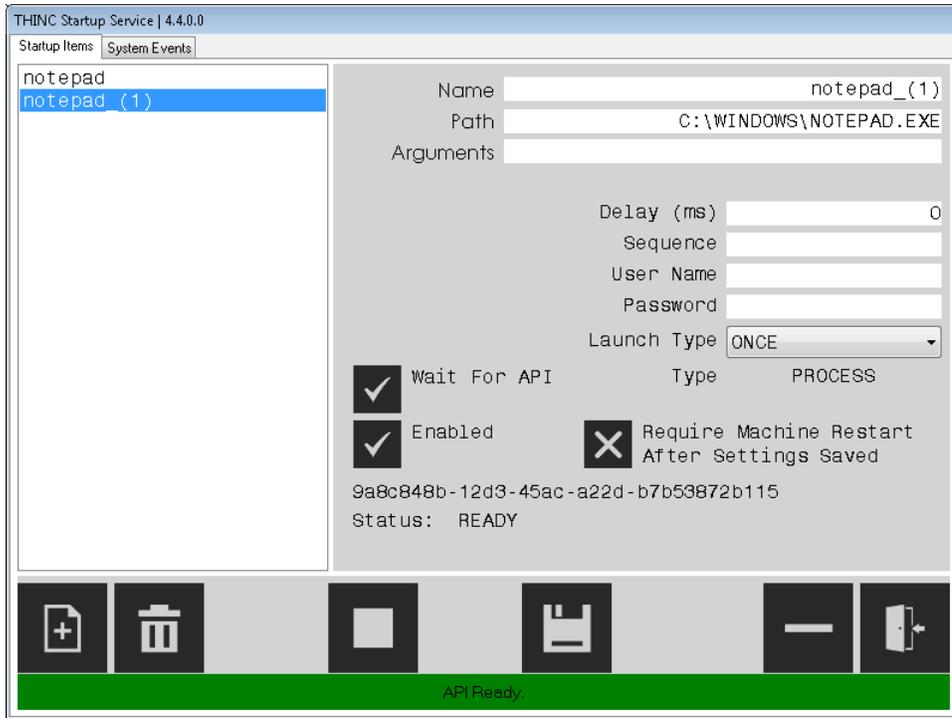


The screenshot shows the 'Settings' application with the 'System Events' tab selected. The 'Indexing Service' is highlighted in the list. To the right, the configuration fields for the service are visible:

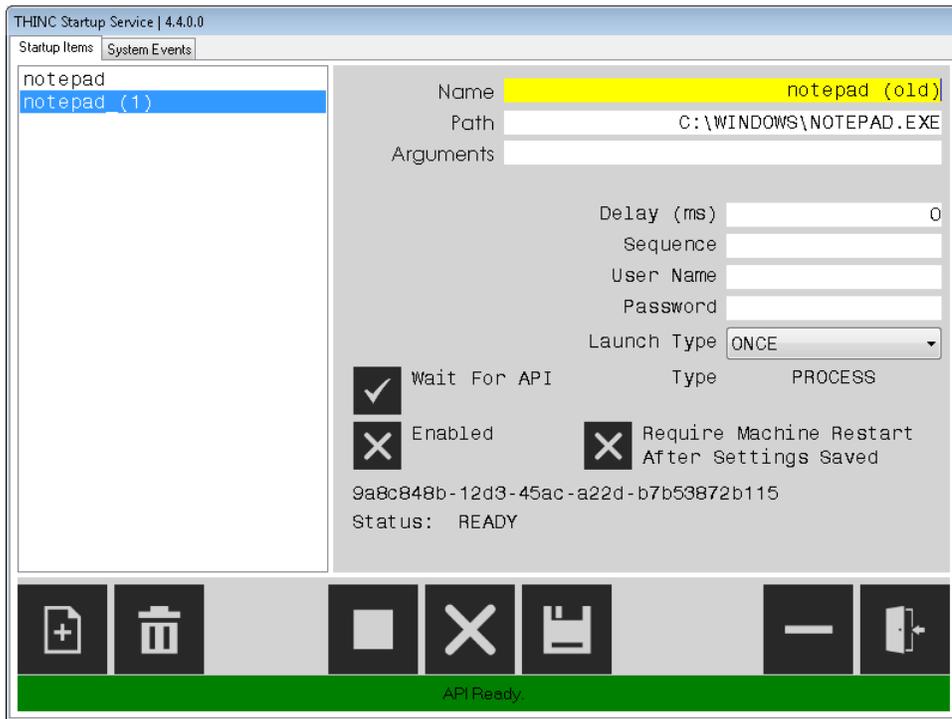
- Name: (empty)
- Arguments: (empty)
- Service Name: (empty)

5.7 Editing a Startup Item

5.7.1 Click the Item to be edited in the list on the left, and its information will be displayed on the main form.



5.7.2 Make any desired changes. Below, as an example, the NAME is changed, and the Item is set to Disabled.

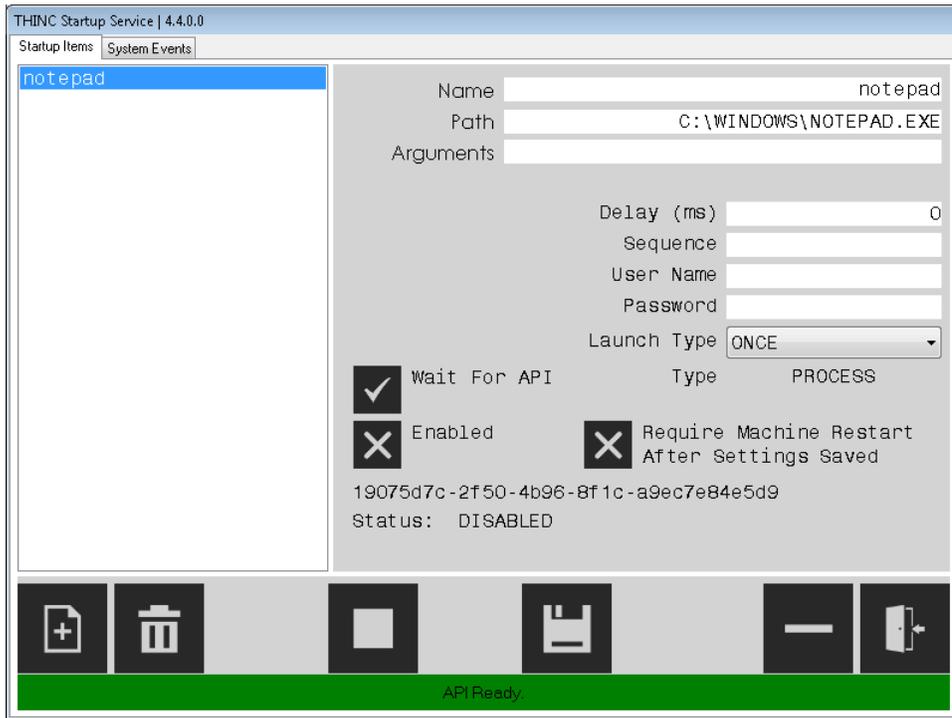


5.7.3 Use the Cancel button to undo changes, or save the Item



5.8 Deleting a Startup Item

5.8.1 Click the Startup Item to be deleted in the list on the left

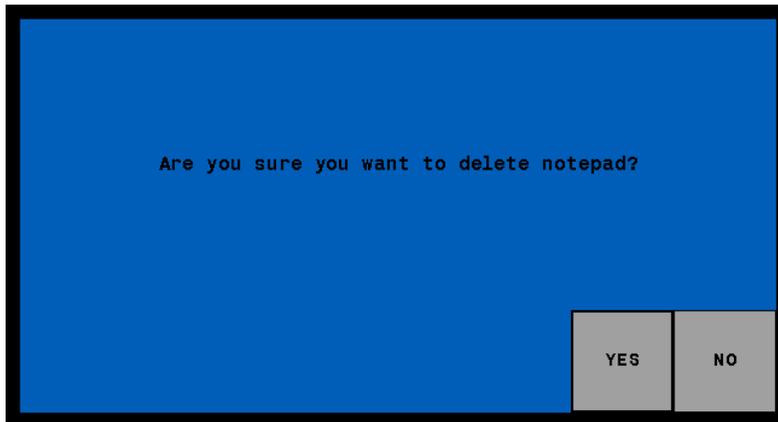


5.8.2 Click the Delete button



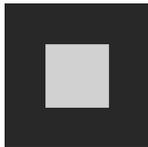
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5.8.3 User will be prompted for confirmation



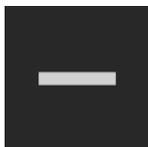
5.9 Stopping a Startup Item

5.9.1 Click the Stop button and the currently-selected Startup Item will stop, but will not be Disabled.



5.10 Minimizing the TSS to the System Tray

5.10.1 Click the Minimize button



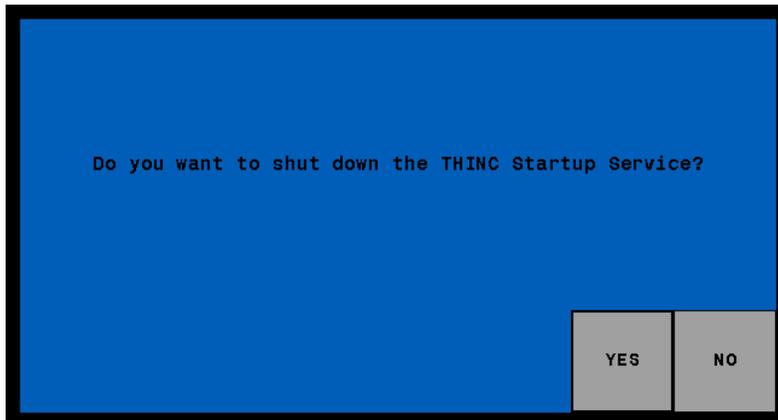
5.11 Closing the TSS

5.11.1 Click the Close button



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5.11.2 User will be prompted for confirmation



6. Event and Error Logging

Events and errors are logged to a csv file in the \Logging directory under the Application's installation directory. One log file is generated for each time the TSS starts. By default, the five most recent log files are retained; older log files are deleted.

Important system events may be viewed on the SystemEvents tab.

Errors are also displayed to the user in a message box.

A detailed Trace Log can be written for troubleshooting. To enable this, run the TSS main executable (THINCStartupProcess.exe) with a -trace command line switch:
THINCStartupProcess.exe -trace

7. Settings

Application settings are stored in the installation directory in settings.xml. This file may be copied from one machine to another, if desired. However, it should never be edited directly in a text editor, as any error in the XML can cause the Application to fail to start.

8. Uninstallation

To fully remove the TSS application, perform the following:

Start the control in Windows Only mode.

Navigate to Add and Remove Programs or Programs and Features (depending on your Windows version, and find "Okuma THINC Startup Service" in the list of installed programs.

Double-click to uninstall.

When the progress dialog closes, the THINC Startup Service will have been uninstalled from the target machine.