

Industrial Browser

Wavelink Terminal Emulation

Industrial Browser Reference Guide

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Chapter 1: Introduction

This guide provides information on developing and using web-based applications for the Wavelink Industrial Browser. The Industrial Browser is a web browser designed to access Web applications from a mobile device. It has scripting, meta tag, and scan handling support, as well as operating system lockdown and options for limiting the pages a user can visit.

The Industrial Browser is included in the Terminal Emulation (TE) Client version 6.0 and newer. It is supported on the following platforms: PocketPC 2003, Windows Mobile 5.0/6.x, Windows 2000/XP, and Windows CE .NET 4.2/5.0.

Licensing for the Industrial Browser is separate from the other TE Client licenses. You can use the TE Client Industrial Browser without a license, but you will be limited to the demo version. To obtain TE Client licenses, please contact Wavelink Customer Service.



Chapter 2: Configuring the TE Client

In order to use the TE Client to access web-based applications, you must configure the Client with the correct connection information and operating parameters. Settings for the Industrial Browser are set in the TE Client's host profile and emulation parameters before the Client is installed. This section provides information about the following:

- [Configuring the Industrial Browser Host Profile](#)
- [Configuring Web Emulation Parameters](#)

Configuring the Industrial Browser Host Profile

Before you can use the Industrial Browser, you must create a host profile for Web emulation. A host profile defines the parameters that the TE Client should use when it attempts to initiate a connection with a specific host. You can configure multiple Web emulation host profiles.

NOTE: For more information about creating host profiles and using the *Edit Host Profiles* dialog box, refer to the *Terminal Emulation Client User Guide*.

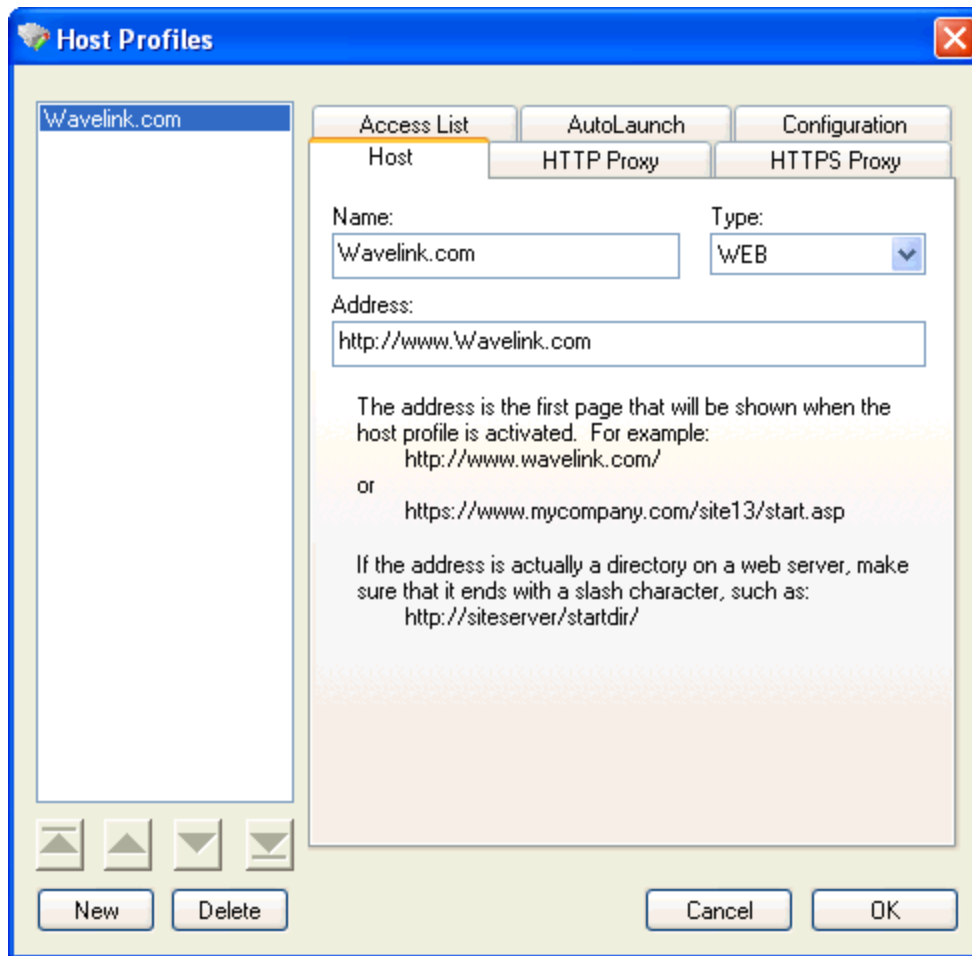
To create a host profile:

- 1 Access the *Edit Host Profiles* dialog box.
- 2 From the **Type** drop-down menu, select **WEB**.
- 3 Enter the host **Name** and **Address** in the appropriate text boxes and click **OK**.

The Web emulation host profile is created.

When you configure the host profile for Web emulation, various tabs appear offering different options for Web settings.





Configuring Web Settings

The following sections describe the options on each tab used to configure Web emulation settings in the *Host Profiles* dialog box:

- [HTTP Proxy and HTTPS Proxy Tabs](#)
- [Access List Tab](#)
- [Configuration Tab](#)

HTTP Proxy and HTTPS Proxy Tabs

Use the **HTTP Proxy** or **HTTPS Proxy** tab to configure proxy connections for Web emulation. The tab you configure should depend on whether you are using HTTP or HTTPS.



The screenshot shows the configuration window for the TE Client. It has three main tabs: 'Access List', 'AutoLaunch', and 'Configuration'. Under 'Configuration', there are two sub-tabs: 'HTTP Proxy' (which is selected) and 'HTTPS Proxy'. In the 'HTTP Proxy' tab, the 'Connection Type' is set to 'Use Proxy Server'. The 'Proxy Server' is '10.17.44.110' and the 'Port' is '8080'. There is an 'Autologin' section with 'Name' 'arr7' and a masked 'Password'. At the bottom, there is a checkbox labeled 'Do not use the proxy server when contacting local hosts (Hosts without a period in their name)' which is currently unchecked.

Configuring the HTTP Proxy Tab

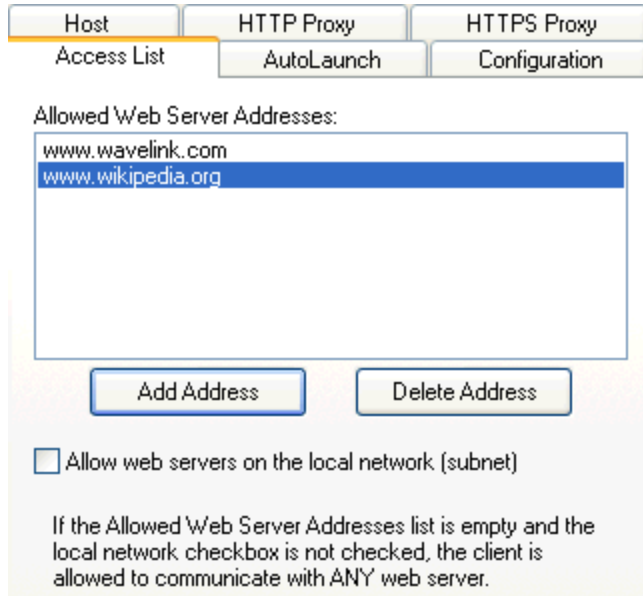
The following list describes the options and configurable parameters in the **HTTP Proxy** and **HTTPS Proxy** tabs.

Connection Type	Indicates the type of connection for the host profile to use. Possible Values: <Direct Connection> <Use Explorer Default> <Use Proxy Server> Default Value: <Direct Connection>
Proxy Server	Indicates the location of the proxy server. Possible Values: Any valid IP address, host name, or web address.
Port	Indicates the network port for the proxy server. Possible Values: Any valid port number. Default Value: <8080>
Name	Provides a username so the Client can automatically log in.
Password	Provides the password for the username.
Do not use the proxy server when contacting local hosts	Indicates whether the TE Client should use the proxy server when contacting hosts that reside on the same network.



Access List Tab

Use the **Access List** tab to configure which web addresses can be accessed by the TE Client Industrial Browser.



Configuring the Access List Tab

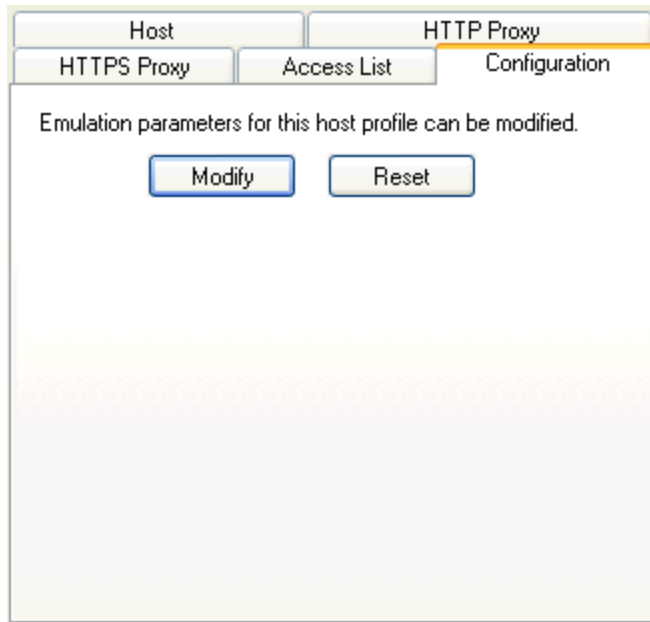
The following list describes the options and configurable parameters in the **Access List** tab.

Allowed Web Server Addresses	Lists the web addresses that the TE Client is permitted to connect to. Possible Values: Any valid IP address, host name, or web address.
Allow web servers on the local network (subnet)	Indicates whether the TE Client can connect with any web server or only with servers on the local network.

Configuration Tab

Use the **Configuration** tab to modify emulation parameters for the host profile.





Configuration Tab

Click **Modify** to access the Configuration Manager or **Reset** to restore default settings.

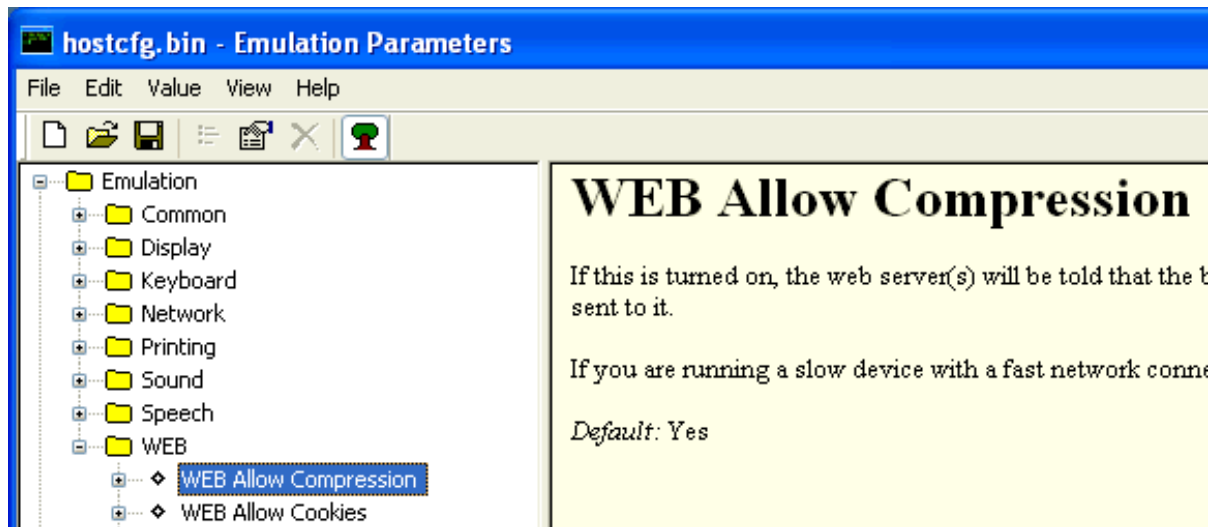
NOTE: For more information about emulation parameters, refer to [Configuring Web Emulation Parameters](#) on page 9.

Configuring Web Emulation Parameters

Change how the Client interacts with the host using the Configuration Manager utility, which provides an organized list of parameters that you can modify. There are specific emulation parameters that apply to the Industrial Browser, organized in the WEB folder.

The left pane of the Configuration Manager displays the client settings that you can modify. The client settings are grouped by category. When you select a setting in the left pane, information about the setting displays in the right pane.





Client Settings

Access the Configuration Manager either through Avalanche (the software package) or ActiveSync (the product configuration utility), depending on the method you use to install the Client. Use the Configuration Manager to modify the settings and save it to a new configuration file. When you download the new configuration file to the mobile device, any existing configuration file is overwritten.

Client settings can be applied globally for all host connections, or set on a per-host basis:

- **Global Client Settings.** Global client settings apply to all of the host profiles with which you have configured a Client.
- **Per-host Client Settings.** Per-host client settings apply only to a specific host profile. Any parameters changed on a per-host basis will override global parameters. You can access the client settings for a specific host profile through the *Host Profiles* dialog box. Per-host settings are a subset of parameters. Not all Client settings are available for modification on a per-host basis.

NOTE: If the dialog box's title bar is hostcfg.bin (as in the image above), the parameters are per-host settings. If the title bar says Termcfg.bin, the parameters are global.



Chapter 3: Using the Industrial Browser

This section provides information about using the Industrial Browser, including how to switch between active sessions, how to navigate on pages, and the keys available.

Changing Sessions

The Industrial Browser allows you to have up to four active sessions concurrently. By default, the TE Client is configured to allow only one session at a time. Use the Client configuration settings to change the number of sessions allowed (**Common > Number of Sessions**). When multiple sessions are enabled, options to switch to other sessions will appear in the **Options** menu.

Basic Navigation

The Industrial Browser interface provides basic commands for navigating web pages.

To navigate using the Industrial Browser:

1 Connect to a host.

2 Tap and hold on the screen.

A menu appears.

3 From this menu, you can select from the following options:

Back / Forward Go back or forward one page.

Stop Stops the current web page from loading.

Refresh Reloads the current web page.

Home Returns the browser to the home page. The home page is configured in the host profile. For more information, see [Configuring the Industrial Browser Host Profile](#) on page 5.

Text Size Displays a menu with the following text size options: Largest, Larger, Medium, Smaller, Smallest.

Using the Virtual Keyboard

The Industrial Browser contains a default keyboard. You can access the keyboard through **Options > View**. The different modes of the Web keyboard include alpha, numeric, function, punctuation, and config. The options for the config keyboard are listed below.



Back	Fwd	Stop	Refresh	Home
Prev Sess		Next Sess		Close
Key Clicks		Quiet	Info	Diags
Alpha	Num	Func	Punc	Cfg Off
				← → ↓

Virtual Keyboard

The following list describes the function of the keys in the Web virtual keyboard.

- Back / Fwd** Goes back or forward one page.
- Stop** Stops the web page from loading.
- Refresh** Reloads the current web page.
- Home** Returns the browser to the specified home page.
- Prev Sess** Cycles to the previous session.
- Next Sess** Cycles to the next session.
- Close** Disconnects the session. (Only available when the session is connected.)
- Key Clicks** Turns key clicks on/off
- Quiet** Turns quiet mode on/off.
- Info** Shows/hides the following information about the mobile device: TE Client version information, MAC address, IP address, ESSID.
- Diags** Opens or closes the TE Client diagnostic tools.
- Alpha** Switches to the alpha keyboard, which includes a-z, Shift, Ctl, Alt, Esc, Tab, Caps, Enter, Space.
- Num** Switches to the numeric keyboard, which includes 0-9, Shift, Esc, Tab, Ins, Enter, Space.
- Func** Switches to the function keyboard, which includes F1-F24.
- Punc** Switches to the punctuation keyboard, which includes the punctuation keys, Enter, Space.
- Cfg** Switches to the configuration keyboard.
- Off** Hides the virtual keyboard.
- Arrow Keys** Moves the web page up and down or from side to side.



Chapter 4: Modifying Web Pages for the Industrial Browser

This section provides information about the custom META tags, IDA commands, and element-specific actions supported by the Industrial Browser. Use these tags to develop custom web pages that enable specific functionality in the Industrial Browser. The following sections are included:

- [META Tags](#)
- [IDA Commands](#)
- [Element-Specific Actions](#)

META Tags

META tags are included at the top of a web page between the <head> and </head> tags. They are evaluated in the order they appear in the web page (from top to bottom). The Industrial Browser ignores tags it does not recognize. If a META tag starts with the `iBrowse_` prefix, that prefix will be ignored. For example, `iBrowse_ScannerNavigate` is treated the same as `ScannerNavigate`.

Each META tag has the following format:

```
<meta http-equiv="[action_name]" content="[action_type]">
```

The `action_type` can be a URL, an IDA action, a JavaScript function, or a Wavelink script. For example:

```
<meta http-equiv="OnStartup" content="wls:WebAuto">
```

Some actions allow the action type to include replacement values; for example, a `'%s'` or `'%d'` or `'%ld'` string can be used to indicate where each replacement item belongs. These strings are interchangeable and can be used in any format that you prefer.

The following META tags are supported by the Industrial Browser:

- [OnAllKeys, OnKey, OnKey0x](#)
- [OnStartup, OnLoaded, PowerOn](#)
- [Navigate Tags](#)
- [Printer Tags](#)
- [Scanner Tags](#)
- [Speakeasy Tags](#)



OnAllKeys, OnKey, OnKey0x

The `OnKey` and `OnKey0x` META tags describe an action that will occur if a particular key is pressed. The key values that are evaluated are the same key values used by Keyboard Creator. The `OnKey0x` format requires a hexadecimal number and the `OnKey` format requires a decimal format. The key value is case sensitive.

For example:

`OnKey50` and `OnKey0x32` respond when the user presses 2.

`OnKey65` and `OnKey97` respond to both the upper and lowercase A.

The `OnAllKeys` tag will perform the specified action each time any key is pressed. The action type can include one argument, which is the string representing the decimal value of the key.

OnStartup, OnLoaded, PowerOn

The `OnStartup` or `OnLoaded` META tags allow you to specify actions that will be taken when the web page is first loaded. `OnLoaded` will not be called until the page has completely loaded. There are situations where `OnStartup` will be called before the page is completely loaded, so images, stylesheets or JavaScript files may not be available. So, for example, if `OnStartup` is calling a JavaScript function referenced by the web page, the call may fail. In that case, use `OnLoaded` to make sure that the `.js` file functions are available.

The `PowerOn` META tag specifies an action for when the device changes from a suspended state to an active state.

Navigate Tags

The Navigate META tags are used to perform a task when the Client detects specific actions, such as signal strength changes, battery status changes, or scanned data. Use JavaScript or other functions to process the arguments that the Navigate tags use.

SignalNavigate

The `SignalNavigate` META tag is used to handle changes in the signal strength of the wireless network connection. The action occurs when the signal strength changes or when the device disconnects from the wireless network.

The three arguments (from left to right) are: signal strength, ESSID, and device MAC address. The signal strength ranges from 0-100. A signal strength result of -1 means "unknown." A signal strength of -2 means "disconnected from the wireless network." ESSID and MAC addresses may be "<unknown>".

For example:



```
<meta http-equiv="SignalNavigate" content="Javascript:onSignalStrength('%s',
'%s', '%s');">
```

ScannerNavigate and ScannerProcessed

The `ScannerNavigate` META tag is used to handle raw scan data. The `ScannerProcessed` tag uses the scan data after it has been modified by the Industrial Browser or other scan handlers. (Industrial Browser scan handlers are set in the TE Client configuration settings.) The action occurs when information is scanned in.

If the action has zero to three arguments, then the arguments are (from left to right): the barcode data, the symbology type, and the time stamp.

If the action has four or five arguments, then the arguments are (from left to right): the barcode data, source scanner name, symbology type, time stamp, and barcode length.

NOTE: You can also use the Web Default Scanner Auto Keys configuration setting to configure the default scanner action on web pages without using META tags. For more information on configuration settings, see [Configuring Web Emulation Parameters](#) on page 9.

BatteryNavigate

The `BatteryNavigate` META tag is used to handle changes in the battery strength or the AC line status. The action occurs when the battery strength changes or when the device is plugged in or unplugged.

The four arguments (from left to right) are: the AC line status, the strength of the main battery from 0-100, the strength of the backup battery from 0-100, and the main battery chemistry. A battery strength of 255 means "unknown".

For example:

```
<meta http-equiv="BatteryNavigate" content="Javascript:onBattery('%s', '%s',
'%s', '%s');">
```

The following are the AC line status values:

Offline	00
Online	01
Backup Power	02
Unknown	255

The following are the battery chemistry values:



Alkaline	01
Nickel-cadmium	02
Nickel-metal hydride	03
Lithium-ion	04
Lithium-ion polymer	05
Zinc-air	06
Unknown	255

Printer Tags

Use Printer tags to specify the printer that should be used for printing or send data to the printer by including the data in Printer META tags.

Printer Setup

Printer setup tags specify the printer to use for printing. Use one of the following Print_Setup tags:

Print_Setup_TP	Selects the IP address and port of the printer for TCP printing. The format is <code>address:port</code> .
Print_Setup_SP	Selects the serial printer using the number in the content value.
Print_Setup_IP	Selects the IRDA printer using the number in the content value.
Print_Setup_BP	Selects the Bluetooth printer using the number in the content value.
Print_Setup_NP	Selects the integrated printer for devices that include one. The content value is not used.

Use the following content values to select the printer type for Serial, Bluetooth, or IRDA printers:

- 0 PS1000
- 1 PS1001
- 2 PS1004
- 3 LINEPRT (Generic 9600 bps serial)



- 4 PDDUMB (Used for Data South)
- 5 COMTEC (5022)
- 6 MONARCH (Monarch PathFinder)
- 7 RASCAL (Monarch 9450)
- 8 RENEGADE (Monarch 9490)
- 9 COMTECPS
- 10 CODECOUR
- 11 COMTEC RF
- 12 COMTEC RF 9600
- 50 User Defined Printer

For example:

```
<meta http-equiv="Print_Setup_TP" content="192.168.1.59:7429">
```

Printing Data

Use the `Print_Continue` and `Print_Finish` action names to specify print data. The print data is in the action type of these META tags. The print data in the tag should all be on the same line in the HTML code and should not be more than 1024 characters in length. If you want additional characters, use a new Printer tag. In addition to standard characters, you can use the following:

- `\r` to specify a return character
- `\n` to specify a newline character
- `\t` to specify a tab character
- `\\` to specify a backslash character
- `\##` or `\x##` to specify any other character, where `##` is replaced with a two-digit hexadecimal number

`Print_Continue` should be used for all but the last section of print data, and `Print_Finish` should be used for the last section of print data. The following tags are alternatives to `Print_Finish`: `Print_Done`, `Print_Final`, `PLSeriesLabel_Print` and `ZebraLabel_Print`.



The META tag `Print_Callback` can be used to check if the printing completed successfully. The argument will be 0 if the printing was successful, or a non-zero number if the printing failed. The following tags are alternatives to `Print_Callback:Print_Complete`, `ZebraLabel_Complete` and `PLSeriesLabel_Complete`.

For example:

```
<meta http-equiv="Print_Continue" content="\22First Line\22\r\n">
<meta http-equiv="Print_Continue" content="\22Middle\22\r\n">
<meta http-equiv="Print_Finish" content="\22Last Line\22\r\n">
<meta http-equiv="Print_Callback" content="printresult.htm&status=%s">
```

Scanner Tags

This section includes tags that enable or disable the scanner or specific symbologies.

If the action name is `Scanner` and the action type is `Enable` or `Resume`, the scanner will be enabled when the page is first loaded. If the action type is `Disable` or `Suspend`, the scanner will be disabled when the page is first loaded.

The additional scanner action types supported by the Industrial Browser:

- `AutoTab`
- `AutoEnter`
- `AutoEnterAndTab`
- `AutoTabAndEnter`
- `NoAuto`

The `AutoTab`, `AutoEnter`, and `AutoEnterAndTab` action types will enable the scanner and will cause the scan data to be followed by an enter or tab key (or both). The `NoAuto` action type will enable the scanner and will clear the scanner key value (if a value is specified by the configuration settings).

When the scanner state is changed (using `Enable`, `Resume`, `Disable` or `Suspend`), the scanner will stay in that state until some other action (such as a META tag or IDA action) changes the state or until the user changes sessions.

Enable and disable different scanner symbologies by using the symbology as the action name, and `Enabled` or `Disabled` as the action type. The symbologies supported by the Industrial Browser are:

AUSTRALIA_POSTAL	CUECODE	PLANET
------------------	---------	--------



AZTEC	D2OF1ATA	PLESSY
AZTECMESA	D2OF5	POSICODE
BOOKLAND	DATAMATRIX	POSTNET
BRITISH_POSTAL	DUTCH_POSTAL	QRCODE
CANADA_POSTAL	EAN8	RSS14
CHINA_POSTAL	EAN13	RSSEXPANDED
CODABAR	I2OF5	RSSLIMITED
CODABLOCK	JAPAN_POSTAL	SIGNATURE
CODE11	KOREA_POSTAL	TELEPEN
CODE16K	MACROPDF	TLC39
CODE32	MACROMICROPDF	TRIOPTIC39
CODE39	MAXICODE	UCC128
CODE49	MATRIX2OF5	UPCA
CODE93	MICROPDF	UPCE
CODE128	MSI	UPCE0
COMPOSITE	OCR	UPCE1
COUPONCODE	PDF417	WEBCODE

In addition to the listed symbologies, the value `ALL_DECODERS` can be used to enable or disable all the symbologies.

For example, to enable only UPCA use the META tags in this order:

```
<meta http-equiv="ALL_DECODERS" content="Disabled">
<meta http-equiv="UPCA" content="Enabled">
```

The prefix `Scanner_` can also be used with all symbologies.

NOTE: For information on `Scanner_Navigate` or `Scanner_Processed`, see [Navigate Tags](#) on page 14.



Speakeasy Tags

Some META tags allow you to include Speakeasy functionality into a page. You must have the Speakeasy packages installed in order for the Client to use Speakeasy tags. If no Speakeasy package is installed, the Industrial Browser will ignore Speakeasy tags.

The `SpeechFromText` or `TextToSpeech` META tags play the string specified in the "content" attribute. For example:

```
<meta http-equiv="SpeechFromText" content="I will speak this sentence.">
```

The `SpeechSetting` META tag changes one or more values for Speakeasy. For example, the following META tag will change the Text-to-Speech settings for language and voice:

```
<meta http-equiv="SpeechSetting" content="tts_language=American English, tts_voice=Tom">
```

IDA Commands

IDA commands are used to invoke a device action or program action by the Industrial Browser. These values can be specified in many of the special META tags described above, as URLs for the user to click on, or called inside JavaScript functions.

For example:

```
<a href="ida:IDA_SESSION_DISCONNECT">Close the session</a>
```

-Or-

```
<script language=javascript>function OnError( ){
Disconnect the Session location.href = "ida:IDA_SESSION_DISCONNECT" ;
// Alternate Method document.location = "ida:IDA_SESSION_DISCONNECT" ;
// Another Alternate Method window.navigate ( "ida:IDA_SESSION_DISCONNECT" )
;
}</script>
```

NOTE: It is recommended that each IDA command be preceded by the `IDA` prefix; however, the command will generally work without the prefix.

The following are IDA commands supported by the Industrial Browser:

IDA_BEEP	Causes the device to emit a standard beep (single tone).
IDA_ERROR_BEEP	Causes the device to emit an error beep (two tones).
IDA_COLDBOOT	Causes the device to perform a cold boot.



IDA_COLDBOOT_PROMPT	Gives the user the option to perform a cold boot or cancel the action.
IDA_KEYBOARD_WEB, IDA_KEYBOARD_SHOW, or IDA_KEYBOARD_UP	Cause the on-screen keyboard to be displayed.
IDA_KEYBOARD_NUM or IDA_KEYBOARD_NUMERIC	Cause the numeric on-screen keyboard to be displayed.
IDA_KEYBOARD_NONE, IDA_KEYBOARD_HIDE, or IDA_KEYBOARD_DOWN	Cause the standard and numeric on-screen keyboards to be hidden.
IDA_PROGRAM_EXIT	Causes the device to exit the current program.
IDA_PROGRAM_EXIT_ PROMPT	Prompts the user to exit the program or cancel the action.
IDA_REPRINT	Causes the last data supplied to the printer to be sent again. The print data will remain available until something else is printed or until the session is disconnected.
IDA_SESSION_S1 IDA_SESSION_S2 IDA_SESSION_S3 IDA_SESSION_S4	Cause the device to switch to the specified session.
IDA_SCAN_DISABLE or IDA_SCAN_SUSPEND	Disable the bar code scanner. When the bar code scanner is disabled, pressing the mobile device trigger will have no effect.
IDA_SCAN_ENABLE or IDA_SCAN_RESUME	Enable the bar code scanner. The bar code scanner will not scan for bar codes unless the mobile device trigger is pulled. You can use the META tag OnStartup with an action of IDA_SCAN_ENABLE or IDA_SCAN_DISABLE to change the scanner state only when the page is first loaded.
IDA_SCAN_FORWARD	Disables the barcode scanner and processes a trigger press as a key press. This command only functions on scanners that support trigger-press forwarding; on all other scanners, the command performs the same action as IDA_SCAN_DISABLE.



IDA_SESSION_DISCONNECT	Disconnects the session and closes the TE Client.
IDA_SESSION_DISCONNECT_PROMPT	Prompts the user to disconnect the session and close the TE Client, or cancel the action.
IDA_SESSION_NEXT	Opens a new session.
IDA_SESSION_PREVIOUS or IDA_SESSION_PREV	Causes the device to return to the previous session.
IDA_SIP_SHOW or IDA_SIP_UP	Cause the SIP on-screen keyboard to become visible.
IDA_SIP_HIDE or IDA_SIP_DOWN	Cause the SIP on-screen keyboard to become hidden.
IDA_SIP_TOGGLE or IDA_SIP_TOGGLEHIDE	Toggle the SIP on-screen keyboard between visible and hidden.
IDA_SUSPEND or IDA_SUSPEND_DEVICE	Cause the device to suspend itself. For CE devices, this is similar to pressing the power button.
IDA_SUSPEND_PROMPT	Prompts the user to suspend the device or cancel the action.
IDA_URL_BACK or IDA_BACK	Displays the screen previous to the current screen. If there are no previous screens, no action will be taken.
IDA_URL_BACK_DISABLE or IDA_BACK_DISABLE	Disable the Back menu option so it cannot be selected by the user. The IDA_URL_BACK or IDA_BACK commands are not affected and will still work.
IDA_URL_BACK_ENABLE or IDA_BACK_ENABLE	Enable the Back menu option so it can be selected by the user. The menu option could still be disabled if there is no page to go back to.
IDA_URL_FORWARD or IDA_FORWARD	Displays the screen that was being displayed before the last Back command. If there is no such screen, no action will be taken.
IDA_URL_FORWARD_DISABLE or IDA_FORWARD_DISABLE	Disable the Forward menu option so it cannot be selected by the user. The IDA_URL_FORWARD or IDA_FORWARD commands are not affected and will still work.



IDA_URL_FORWARD_ENABLE or IDA_FORWARD_ENABLE	Enable the Forward menu option so it can be selected by the user. The menu option could still be disabled if there is no page to return to.
IDA_URL_HOME or IDA_HOME	Cause the Industrial Browser to proceed to the location specified by the current host profile. This location is completely independent from any other web browsers on the device.
IDA_URL_HOME_DISABLE or IDA_HOME_DISABLE	Disable the Home menu option so it cannot be selected by the user. The IDA_URL_HOME or IDA_HOME commands are not affected and will still work.
IDA_URL_HOME_ENABLE or IDA_HOME_ENABLE	Enable the Home menu option so it can be selected by the user.
IDA_URL_REFRESH or IDA_REFRESH	Cause the web page to be reloaded. The server will be queried to verify that the page contents are up-to-date.
IDA_URL_STOP or IDA_STOP	Cause the web page to stop loading. If the web page is already fully loaded, this action has no effect.
IDA_WARMBOOT	Causes the device to perform a warm boot.
IDA_WARMBOOT_PROMPT	Prompts the user to perform a warm boot or cancel the action.
IDA_ZOOM_DISABLE or IDA_FONT_DISABLE or IDA_ZOOM_LEVEL_DISABLE	Disable the Text Size menu so it cannot be selected by the user. The IDA options to set the zoom level (text size) are not affected and will still work.
IDA_ZOOM_ENABLE or IDA_FONT_ENABLE or IDA_ZOOM_LEVEL_ENABLE	Enable the Text Size menu so it can be selected by the user.
IDA_ZOOM_LARGER or IDA_FONT_LARGER or IDA_ZOOM_3 or IDA_ZOOM_LEVEL_3 or IDA_ZOOM_LEVEL_LARGER	Displays the text using a large text size. This setting is global and affect other browsers on the device.



IDA_ZOOM_LARGEST or IDA_FONT_LARGEST or IDA_ZOOM_4 or IDA_ZOOM_LEVEL_4 or IDA_ZOOM_LEVEL_ LARGEST	Displays the text using the largest text size supported by the browser. This setting is global and affects other browsers on the device.
IDA_ZOOM_MEDIUM or IDA_FONT_MEDIUM or IDA_ZOOM_2 or IDA_ZOOM_LEVEL_2 or IDA_ZOOM_LEVEL_ MEDIUM	Displays the text using a medium text size. This setting is global and affects other browsers on the device.
IDA_ZOOM_MINUS or IDA_FONT_MINUS or IDA_ZOOM_LEVEL_MINUS	Displays the text using the next-smaller text size than the current text size. This setting is global and affects other browsers on the device.
IDA_ZOOM_PLUS or IDA_FONT_PLUS or IDA_ZOOM_LEVEL_PLUS	Displays the text using the next-larger text size than the current text size. This setting is global and affects other browsers on the device.
IDA_ZOOM_SMALLER or IDA_FONT_SMALLER or IDA_ZOOM_1 or IDA_ZOOM_LEVEL_1 or IDA_ZOOM_LEVEL_ SMALLER	Displays the text using a small text size. This setting is global and affects other browsers on the device.
IDA_ZOOM_SMALLEST or IDA_FONT_SMALLEST or IDA_ZOOM_0 or IDA_ZOOM_LEVEL_0 or IDA_ZOOM_LEVEL_ SMALLEST	Displays the text using the smallest text size supported by the browser. This setting is global and affects other browsers on the device.

Element-Specific Actions

The following custom attributes are supported for individual elements on a page:

- OnAllKeys, OnKey, OnKey0x
- Scanner
- Symbologies



The attributes can be specified in the tag that creates the element on the web page. If the element is selected (active), then the option will be applied. When the element is not selected (inactive), then the settings will be those specified by the META tags for the web page.

To use these as attributes for an element, use the format: `action_name="action type"`

For example, the following tag will cause the scanner to be enabled when the input field is selected on the web page.

```
<input name="item1" id="item1" type="text" Scanner="Enable">
```

The following tag will enable the scanner only while the tag is selected. The scanner will otherwise be disabled.

```
<meta http-equiv="Scanner" content="Disable">
```

NOTE: You can use the META tag `OnStartup` with an action of `IDA_SCAN_ENABLE` or `IDA_SCAN_DISABLE` to change the scanner state only when the page is first loaded.

To use element-specific symbologies, you can either use the symbology name or prefix the symbology name with the string `"Scanner_"`.

For example, the following tag will enable the scanner, AutoTab after an item is scanned, and turn off all symbologies except `Code128`.

```
<textarea name="item2" Scanner=AutoTab Scanner_All_Decoders=Disable Scanner_
Code128=Enable>
```

Attributes are processed left to right, so in this example, `Code128=Enable` must come after `Scanner_All_Decoders=Disable`.



Wavelink Contact Information

If you have comments or questions regarding this product, please contact Wavelink Customer Support.

E-mail Wavelink Customer Support at: CustomerService@wavelink.com

For customers within North America and Canada, call the Wavelink Technical Support line at 801-316-9000 (option 2) or 888-699-9283.

For international customers, call the international Wavelink Technical Support line at +800 9283 5465.

For Europe, Middle East, and Africa, hours are 9 AM - 5 PM GMT.

For all other customers, hours are 7 AM - 7 PM MST.

