



# SMILOG

SOFTWARE FOR MOBILE INTEGRATION IN LOGISTICS

## **SMITERM 8 Configuration Parameters**

Prepared by: M.J. Brandys

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## **Corporate Address**

**SMILOG Ltd.**  
1334 Farrell Ave.  
Delta  
BC Canada V4L 1V2  
Phone: 604-418-5010  
Internet: <http://www.smilog.ca>  
Email: **support@smilog.ca**



## Revision History

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## **New For Release 8**

- Override Configuration by copying SmiConfig.txt file to DOWNLOADS directory
- Override Error Sound by copying error.mp3 file to DOWNLOADS directory
- Override Normal Sound by copying normal.mp3 file to DOWNLOADS directory
- License only needs to be installed once successfully while WIFI / MAC address is available. License will continue to run if the device is connected to an LTE network and the WIFI radio is disabled.
- Fail Over Feature added. Connection is made to a backup MIS server if the primary Server is unavailable.
- Improvements to Printing, including support for BlueTooth.
- New, built-in camera scanning feature. No need to download 3<sup>rd</sup> party product to scan barcodes with the device's camera. This scanner feature can also recognize Text (OCR optical character recognition)
- Added AIAG\_FILTER Parameter. This will remove the AIAG prefix on any AIAG field.
- Added Debug Level 10, which will capture all data received sent ,or typed and saves it to a file called SmiDebug.txt in DOWNLOADS directory
- Added FULL\_SCREEN parameter. When disable, it make the Status Indicators at the top of the screen visible. (usually includes: network signal strength, battery power status, time etc)
- Improved network reconnection method. A new connection is tried every 5 seconds if the HOST IP address is not available on the network
- Fixes to support TESS+ command to allow field modifications typically not found in MIS. These changes were done to provide support to non-MIS solutions.

## **KNOWN ISSUES**

- Cursor does not appear in fields when Pop up Keyboard blocker is set.
- Application only supports English, French, and German Languages
- For TEKRF and TEKCONSOLE solutions. This does not include all the functionality of TEKTERM.

## **BUGS FIXED**

- (8.10) Bug Fix: Left and Right Arrow Keys will no longer move the cursor outside of the field in focus
- (7.17) Bug Fix: "Scan to configure" will no longer creates duplicate entries in Configuration.
- (7.17) Bug Fix: "Scan to configure" will work with Zebra DataWedge and other similar application that push data though a "soft keyboard" rather than placing the data in the keyboard buffer.
- (7.17) Bug Fix: Changed TESS parsing to handle Fragmented Messages for the server. This can occur when the screen requires more than 384 bytes. On direct connections, typically a large screen is sent as a single TESS message. But 9500 controllers will break larger screens up into multiple TESS messages. This causes older versions of SmiTerm to Crash



- (7.17) Bug Fix: TESS + command will erase the field when Style Byte is set to “Reserved Type” (bit 1=0 and bit 0=-0)
- (7.17) Bug Fix: Numeric only fields would not accept non-numbers (example 2-2-2). In previous versions Numeric Only fields strictly enforced that the value entered be a number.
- (7.17) Bug Fix: Modified font scaling calculations to avoid having the last column being “clipped” on some screen sizes. This problem typically happens on 15 row x 30 column screens.
- (7.15) Bug Fix: fixes lingering TCP Sockets. If the MIS Server has the **Terminal Direct Connection – Keepalive Timeout to 0**, the TCP Connections on Port 9999 will remain in a CLOSE\_WAIT state until the SmiTerm device reconnects or the Terminal Service is restarted
- (7.14) Bug Fix: fixes for Googles (broken) Speech Recognition

Note: Value in brackets is the first version to include fix.



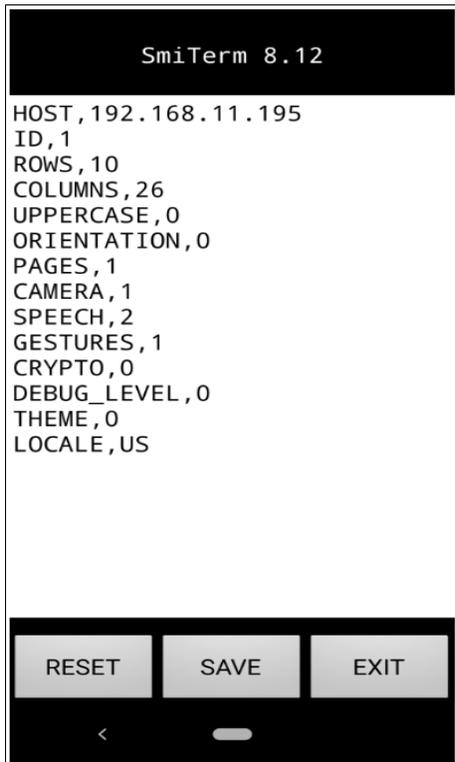
## Configuring SMITERM

SMITERM is configured by editing a comma delimited configuration file.

The contents of this file could be scanned in using a single 2D barcode.

The configuration file is edited by pressing the "Config" button, on the "button bar, The following screen will appear,

NOTE: There have been significant changes in the number of parameters available. Not all parameters are included in the default (Reset) configuration. If a parameter is not included in the view below, the default value is used.



Normally, only the HOST, ID, ROWS, COLUMN parameters need to be changed.:

These will be specific to each customer's TEKRF or TEKCONSOLE system.

Often the Non-TEKRF input features, SPEECH, CAMERA, and GESTURES, are disabled by setting to values to Zero.

Each of the configuration parameters are can be found in the next section:



## *HOST CONNECTION*

### **Host connection address:**

#### **HOST, <value>**

Where <value> is the IP address or DNS name of the TEKRF or TEKCONSOLE server.

Default: 192.168.11.195

### **Host fail over address:**

#### **HOST2, <value>**

Where <value> is the IP address or DNS name of the TEKRF or TEKCONSOLE server.

If this value is blank, the Failover is disabled.

If Failover is available a "SWITCH" Button will appear on the fling bar.

Default: <blank>

### **Terminal ID:**

#### **ID, <value>**

Where <value> is the Terminal ID on the TEKRF or TEKCONSOLE server, or controller

Default: 1

### **Host fail ID:**

#### **ID2, <value>**

Where <value> is the Terminal ID on the TEKRF or TEKCONSOLE server, or controller.

If this value is blank, the Failover is disabled.

If Failover is available a "SWITCH" Button will appear on the fling bar.

Default: <blank>

### **TESS TCP port**

#### **PORT, <value>**

Where <value> is the TCP port used to connect to the TEKRF or TEKCONSOLE server, or controller

Default: 9999



**Terminal Model Number (TekTerm)**

**MODEL, <value>**

It is recommend that you do not change, Required to send correct Initialization String

Default 200

**Software release (TekTerm)**

**SOFTWARE, <value>**

It is recommend that you do not change, Required to send correct Initialization String

Default 69

**Number of Pages (Page Saving)**

**PAGES, <value>**

Where <value> is the number pages used in Page Saving. 1-16

Default 1 (No Page Saving)

**Enable SSL data exchange**

**CRYPTO, <value>**

Where <value> = 0 to disable SSL data exchange, all data will be sent in plain text

<value> = 1 to enable SSL data exchange, but ignores Certificate, all data will be encrypted.

<value> = 2 to enable SSL data exchange, all data will be encrypted.

Default 0



## SCREEN LAYOUT

### Number of Rows

#### **ROWS, <value>**

Where <value> is the number of rows to display on the screen, this should be either 10 or 15

Default: 10

### Number of Columns

#### **COLUMNS, <value>**

Where <value> is the number of rows to display on the screen, this should be either 26 or 30

Default: 26

### Screen Orientation

#### **ORIENTATION, <value>**

Where <value> = 0 Portrait.

<value> = 1 Landscape

<value> = 2 Reverse Portrait (upside down).

<value> = 3 Reverse Landscape (upside down).

Default 0

### Screen Color Theme

#### **THEME, <value>**

Where <value> = 0 use default smiTerm colors

<value> = 1 use Dark Mode colors

<value> = 2 use TekTerm default colors (black and white)

<value> = 3 use Green Background

Default: 0



### **Failover Screen Color Theme**

#### **THEME2, <value>**

Where <value> = 0 use default smiTerm colors

<value> = 1 use Dark Mode colors

<value> = 2 use TekTerm default colors (black and white)

<value> = 3 use Green Background

Default: 3

### **Full Screen options**

#### **FULL\_SCREEN, <value>**

Where <value> = 0 disables full screen mode. Status Indicators at the top screen are visible.

<value> = 1 full screen but will detect notches and cut-outs.

<value> = 2 full screen.

Default: 1

### **FKEY Fling Bar location**

#### **BAR\_LOCATION, <value>**

Where <value> = 0 bottom of screen

<value> = 1 top of screen

Default: 0



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## DATA INPUT / OUTPUT

### Enable Uppercase only input

#### UPPERCASE, <value>

Where <value> = 0 to disable uppercase only.

<value> = 1 convert to upper cases except for password fields.

<value> = 2 convert to upper cases for all fields.

Default: 0

### Keyboard Only (Disable Popup Keyboard)

#### KEYBOARD, <value>

Where <value> = 0 use both

<value> = 1 use physical keyboard only, .

Default: 0

### Enable Camera

#### CAMERA, <value>

Where <value> = 0 to disable camera as scanner,

<value> = 1 to enable camera as barcode scanner,

<value> = 2 to enable camera as Text scanner,

<value> = 3 to enable camera as barcode and Text scanner,

Default 1 (on)

### Enable Speech Features

#### SPEECH, <value>

Where <value> = 0 to disable TTS and Speech Recognition,

<value> = 1 to enable TTS

<value> = 2 to enable TTS and Speech Recognition

Default 2



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**Enable Gestures to simulate function key presses:**

**GESTURES, <value>**

Where <value> = 0 to disable gestures,

<value> = 1 to enable gestures,

Default 1 (on)

**UTF8 support**

**UTF, <value>**

Enables support for International / Multibyte characters by using UTF8 character set.

Where <value> = 0 use default Western European Code Page (use ISO-8859-1 )

<value> = 1 use UniCode(r) UTF8

Default: 0

**Override Device Locale**

**LOCALE, <value>**

Where <value> = DEVICE (uses the devices locale)

<value> = US (English)

<value> = DE (German)

<value> = FR (French)

Default: US

**AIAG Prefix Filter**

**AIAG\_FILTER, <value>**

Where <value> = 1 remove AIAG prefix

<value> = 0 do not AIAG remove prefix

Example: for an AIAG Prefix of P, scanning or manually entering P123456 will result in the field being changed to 123456.

If you wanted P123456 to be sent to SAP, then the user would have to manually enter PP123456.

Note: For AIAG parsing, a better approach is to use the internal barcode parsing, but this requires configuring the scanner to append a prefix to each scan (See Scan Prefix)

Default: 0



### **Scan Prefix**

#### **SCAN\_PREFIX, <value>**

Where <value> is set to single character that will trigger “scan to configure” and “AIAG barcode parsing”

This can be set to a space character (Blank) to completely disable the scan features

Default: ~ (ascii 126, hex 0x7E)

### **SOUND Options (BEEP)**

#### **BEEP, <value>**

Where <value> = 0 No Sounds

<value> = 1 Beep on Error messages only

<value> = 2 Beep on Error messages and Function key presses

<value> = 3 Beep and Vibrate on Error messages and Function key presses

Default: 0

### **Printing:**

#### **PRINTER<x>, <parm1>:<parm2>:<parm3>**

Printing output from TEKRF and TEKCONSOLE uses the TESS port pass command. The port can be redirected to a variety of devices.

The following parameters control the Redirecting of these ports.

PRINTER1 <tess port pass 1>

PRINTER2 <tess port pass 2>

PRINTER3 <tess port pass 3>

PRINTER4 <tess port pass 4>

PRINTER5 <tess port pass 5>

PRINTER6 <tess port pass 6>

Note: Typically Ports 1 and 2 are used in custom TEKRF and TEKCONSOLE transactions.



For Tethering Printers to the terminals USB port use

**PRINTER<x>,USB**

Example: PRINTER1,USB

For Network Printers use

**PRINTER<x>,NETWORK:<IP address>:<Port>**

If the IP address is not entered then it will default to 127.0.0.1

If the Port is not entered then it will default to TCP port 9200

Example: PRINTER2,NETWORK:192.168.1.200:6101

For BlueTooth Printers use

**PRINTER<x>,BLUETOOTH:<Name of Paired Device>**

Note: If the Name of the Paired Device is not entered then the first paired device found will be used. This can be useful if you only ever pair one printer at a time with the android device. (and have no other paired devices)

Example: PRINTER1,BLUETOOTH:MyPrinter

For Text to Speech use:

**PRINTER<x>TTS**

Note: PRINTER3,TTS is configured by default for our demos.



## **MISC.**

### **Auto License Web address**

#### **LICENSE\_URL <value>**

Where <value> address of web service use to automatically deliver license keys”

This can be set to space character (Blank) to completely disable this feature

Default: <http://portal.smilog.ca/myLicense/Service1.svc/json/>

### **Debug level**

#### **DEBUG\_LEVEL, <value>**

Where <value> = 0 to 10. The higher the number, the more details that are sent to iLog.

if DEBUG is set to 10 all data received sent ,or typed and saves it to a file called SmiDebug.txt in DOWNLOADS directory

Default: 0

### **LOCK Configuration**

#### **LOCK, <value>**

Where <value> is the password, up to 16 characters. Will not prompt for a password when the CONFIG button is pressed if blank.

Default: <blank>



## License Keys

The license key is unique to each terminal, and cannot be moved or reused on a different terminal.

The user will be informed that a license key is required each time SMITERM is started and after every 100 key strokes. This will stop once a valid license key is installed.

NOTE: both permanent and expiring license keys are available for SMITERM7.

To enter a license, Press the “License” Button on the button bar.



To obtain a license key, send proof of purchase to [support@smilog.ca](mailto:support@smilog.ca)

Please include the Device ID displayed at the top of the licensing Pop-up message.

License keys can be delivered via the Web. Automatic Licensing is attempted each time the application is started. It will send a request for a key. If the Device ID is recognized by the license server, it will send back a valid key.

License can also be scanned in by creating a code 128 barcode with the following format

(scan prefix)<(license key)>

Example: ~<**64D5434CDD8DC1C9**>

NOTE: only a valid scanned license keys will be installed. If an invalid key is scanned it will not overwrite the existing key.

## Scan to Configure

Any of the configuration parameters can also be scanned in by creating a code 128 barcode with the following format

(scan prefix)<(parameter),(value)>

Example: ~<**HOST,10.0.0.1**> will set the host connection to IP address 10.0.0.1

Example: ~<**THEME,1**> will set the screen colors to Dark Mode

The configuration can be reset using the RESET Command

Example: ~<**RESET,0**>

After a configuration barcode is scanned the edges of the screen will become red (as illustrated below)



Multiple barcodes can be scanned, but will not take effect until the WRITE command is scanned.

Example: ~<**WRITE,0**>

Or the changes can be cancelled using the CANCEL command, or by restart the application, or pressing the CONFIG button.

Example: ~<**CANCEL,0**>

Once the WRITE Command is scanned the application is restarted.



## Scanning Data

### Built in Scanner

If the Android Terminal is equipped with a built in scanner, data can be scanned into a field using a “Wedge Reader” application that will convert the barcode to keystrokes. Terminals with built in scanners will likely have a dedicated “scan” button.

The “Wedge Reader” application will be provided by the manufacturer of the Terminal and will need to be configured to convert various barcode format into the Keystrokes and Append an ENTER key press.

### Camera

If the Android device is equipped with a camera, the camera can be used as a barcode scanner. The built in scanner application can read 1D and 2D barcodes and can also read Text (OCR).

The build in Scanner application uses “Googles Play Services”. All full versions of Android include this, but Some terminals may be uses a custom version of Android that does not include Applications licenses by Android like the Google Play Store.

The Scanner shows the view of the camera, if the center of the red “cross hairs” touch the barcode it will be read automatically. If the SCAN button is press and held, the scanning will be suspended until the SCAN button is released, this allows for aiming before scanning.





If the “cross hairs” are blue, then the SCAN button will read Text (OCR). This will be available is the CAMERA parameter is set to 2 or 3.

If the CAMERA parameter is set to 3, then touching the screen while scanning will toggle between Barcode and Text reading modes.

## APPENDIX A – Scan to Configure, Barcode Samples

Example: to change the THEME to DARK MODE, scan the next 2 barcodes



Generated using:

<https://barcode.tec-it.com/en/Code128>

## APPENDIX B - Themes

<pre>PSION TEKLOGIX LOGIN TekRF CLIENT      800 USER        mbrandys PASSWORD LANGUAGE</pre>	<pre>PSION TEKLOGIX LOGIN TekRF CLIENT      800 USER        mbrandys PASSWORD LANGUAGE</pre>	<pre>PSION TEKLOGIX LOGIN TekRF CLIENT      800 USER        mbrandys PASSWORD LANGUAGE</pre>
F1 F2 F3 F4 F5 F6	F1 F2 F3 F4 F5 F6	F1 F2 F3 F4 F5 F6

SMITERM DEFAULT

DARK MODE

TEKTERM