



SMART TRANSACTION SYSTEMS

Guidelines for Enabling STS Gift Cards on Micros e7 Systems

Smart Transaction Systems (STS) is fully compatible with the Micros e7 system for gift & loyalty card processing. Setting up STS gift cards in the Micros e7 system is very similar to setting up gift cards for any 3rd party gift card processor.

STS provides free “host adapter” software that can easily be downloaded and installed on the back room server. The e7 system communicates with our Host Adapter software using the standard Micros “SVC” interface.

Basic Requirements

The e7 server must have internet access. If you are able to open the web browser and view <https://www.smart-transactions.com> then transactions should go through with no problem because they are transmitted to the same web server.

How it Works

Gift card transactions flow from the e7 software to the STS Gift Card Adapter, which then encrypts the transaction and sends transaction to our SSL gateway over the merchant's internet connection. The response is then sent back to the e7 system in the standard SVC format.



Technical description: A gift or loyalty transaction is processed in the following steps:

1. When the e7 system has a gift card transaction, it opens up a TCP/IP socket connection to the IP address and port number defined in the Configuration > Interfaces screen.
2. Micros sends the transaction to the Host Adapter.
3. The STS Host Adapter receives the transaction and sends it to the STS SSL gateway over an encrypted connection.
4. The response from the gateway is then sent back to Micros.

Setup and Configuration

In the setup process you will be completing the following tasks:

1. Set up the gift card interface.
2. Set up the gift card Tenders and Service Charge items.
3. Setup the touch screen keys for the gift card functions.

...If the merchant is also being setup to for a loyalty program, you will:

1. Set up a separate interface for loyalty.
2. Set up the loyalty Tenders and Service Charge items.
3. Setup the touch screen keys for the loyalty card functions.

Gift Card Set Up

The following screen captures came from e7 systems that are up and running with STS gift & loyalty cards. In most cases, your setup screens should be configured with the same settings.

Set up the Interface

Go to the Interfaces section and add a new Interface. You can name the interface anything that you want, but in this sample, we use the name *msvc-sts*. The SVC Host Setup screens tell the e7 software how to process gift card transactions.

The gift card interface will not work unless the Host Adapter Address and Host Adapter Port settings on the “SVC Host” tab match the settings used in the STS Host Adapter software. (More details on the STS Host Adapter towards the end of this document.)

The settings shown below are typical. Normally the STS Host Adapter software is installed on the e7 server machine. (If this is not the case, the IP address of the machine where the STS Host Adapter is installed must be used.)

The screenshot shows the 'e7' software interface with the 'Interfaces' section active. A table on the left lists existing interfaces: '1 PRINTER' and '3 msvc-sts'. The 'msvc-sts' interface is selected, and its configuration is shown in the main area. The configuration includes a 'Number' of 3, 'Interface Code' of SVC, and 'Name' of msvc-sts. The 'SVC Host' tab is active, showing a table of settings: Host Name (msvc-sts), Host Adapter Address (127.0.0.1), and Host Adapter Port (77). The 'Node' is set to 'MICROS PC' and 'Log Transactions' is unchecked.

Name	Setting
Host Name	msvc-sts
Host Adapter Address	127.0.0.1
Host Adapter Port	77

SVC Server Tab

The default settings on this tab should not need to be changed. These settings control the internal Micros SVC interface.

The screenshot shows the 'e7' software interface. At the top, there is a blue header bar with the text 'e7'. Below the header is a toolbar with several icons, including a green plus sign labeled 'Add Record'. The main window is divided into two panes. The left pane contains a table with two columns: 'Number' and 'Name'. The right pane contains a configuration table for the selected record.

Number	Name
1	PRINTER
3	mssc-sts

Name	Setting
Server Address	127.0.0.1
Server Port	2323
Connect Timeout	20
Ack Timeout	30
Enable Auto Reversal	False

SVC Interface Information Screen

With the following exceptions, the values in this screen may be left at their default values or edited to suite the customer's needs:

1. **Site ID** should be set to the 12-digit STS Merchant ID with the 3-digit STS Terminal ID added to the end. (15 digits in all) We will provide these values to you.
2. **Item Number for Issue Account** is 903
3. **Item Number for Activate Account** is 903
4. **Item Number for Reload Account** is 902
5. **Item Number Redeem** is 9002
6. **Item Number for Manual Redeem** is 9003
7. **Item Number for Issue Points** is 9006
8. **Item Number for Redeem Points** is 9004 (Optional function)

Number	Name
2	HP Deskjet 6940
3	msvc-sts

Name	Setting
Site ID	<STS MID & TID goes here>
Base Currency	USD
Language 1 ISO Code	en-US
Language 2 ISO Code	
Language 3 ISO Code	
Language 4 ISO Code	
SVC Chit Printer	1
Item Number for Issue Account	903
Item Number for Activate Account	903
Item Number for Reload Account	902
Item Number for Redeem	9002
Item Number for Manual Redeem	9003
Item Number for Issue Coupon	99999
Item Number for Issue Points	9006
Item Number for Accept Coupon	99999
Item Number for Redeem Points	9004
Post Menu Item for Issue/Activate/Reload	False
Post Tender for Accept Coupon/Redeem Points	False
Print Only One Voucher	False

Setting up the Required Service Charges

The interface between Micros and STS requires that Service Charges 902 and 903 be setup in the system as shown in the following two screens. (No need to change anything on the Settings tab.)

The screenshot shows the 'Service Charges' window in the e7 system. The left pane displays a list of service charges, with '902 Add Value GC' selected. The right pane shows the 'Main' tab for this record. The 'Number' is 902 and the 'Name' is 'Add Value GC'. The 'Category' is 4, and the 'Image placement' is 'Left'. The 'Type' is 'Non Tip'. The 'Effectivity' dates are from '01-01-1970 12:00 AM' to '12-31-2050 12:00 AM'. The 'Form of Service Charge' is set to 'Open' with a radio button selected, and the 'Amount' is set to '0.00'.

Number	Name
1	CHARGED TIP
2	OPEN % GRATUITY
3	OPEN \$ SVC CHG
4	PAID IN MISC NR
5	GIFT CERT SALE
6	17% GRATUITY
7	Non Rev Paid In
902	Add Value GC
903	Gift Card Sale

Main | Settings |

Main

Number: 902 Name: Add Value GC

Category: 4 [Print class](#) PAY, DISC, SVC CH

Image placement: Left Image:

Type: Non Tip

Effectivity

From: 01-01-1970 12:00 AM

To: 12-31-2050 12:00 AM

Form of Service Charge

Open Preset

Amount: 0.00

Percent: 0

The screenshot shows the 'Service Charges' window in the e7 system. The left pane displays a list of service charges, with '903 Gift Card Sale' selected. The right pane shows the 'Main' tab for this record. The 'Number' is 903 and the 'Name' is 'Gift Card Sale'. The 'Category' is 4, and the 'Image placement' is 'Left'. The 'Type' is 'Non Tip'. The 'Effectivity' dates are from '01-01-1970 12:00 AM' to '12-31-2050 12:00 AM'. The 'Form of Service Charge' is set to 'Open' with a radio button selected, and the 'Amount' is set to '0.00'.

Number	Name
1	CHARGED TIP
2	OPEN % GRATUITY
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903	Gift Card Sale

Main | Settings |

Main

Number: 903 Name: Gift Card Sale

Category: 4 [Print class](#) PAY, DISC, SVC CH

Image placement: Left Image:

Type: Non Tip

Effectivity

From: 01-01-1970 12:00 AM

To: 12-31-2050 12:00 AM

Form of Service Charge

Open Preset

Amount: 0.00

Percent: 0

Setting up Required and Optional Tender Types

Tender/Media Payment type 9002 (Gift Card Redeem) is required. Tender/Media Payment type 9003 (Redeem Auth & Points Issue) is optional.

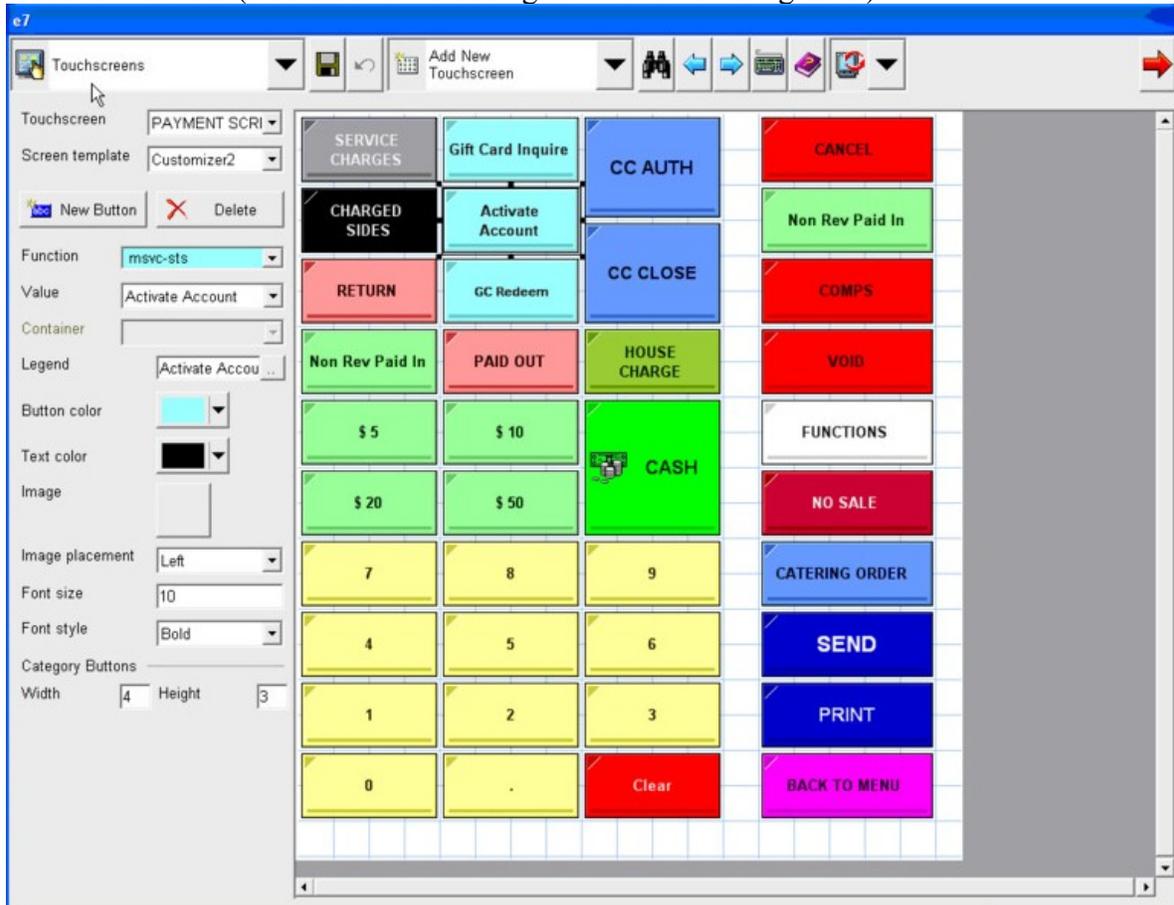
The screenshot shows the 'e7' Tender setup window. The left sidebar lists various tender types, with 'GIFT CARD REDEEMED' selected. The main window displays the 'General' tab for this tender type. The 'Number' field is set to '9002' and the 'Name' field is 'GIFT CARD REDEEMED'. The 'Category' is '0' and 'Priority' is '0'. The 'Image placement' is set to 'Left'. The 'Effectivity' section shows a date range from '01-01-1970 12:00 AM' to '12-31-2050 12:00 AM'. The 'Exempted Tax' section includes a list of tax rates with checkboxes: 'FOOD TAX', 'LIQ TAX INC', 'LIQ TAX ADD/ON', 'N/A TAX INC', 'N/A TAX ADD/ON', and 'MERCHANDISE'. All checkboxes are currently unchecked.

Note: For Gift Card Redeemed, the interfaces tab should be blank. (no entries)

Touch Screen Keys

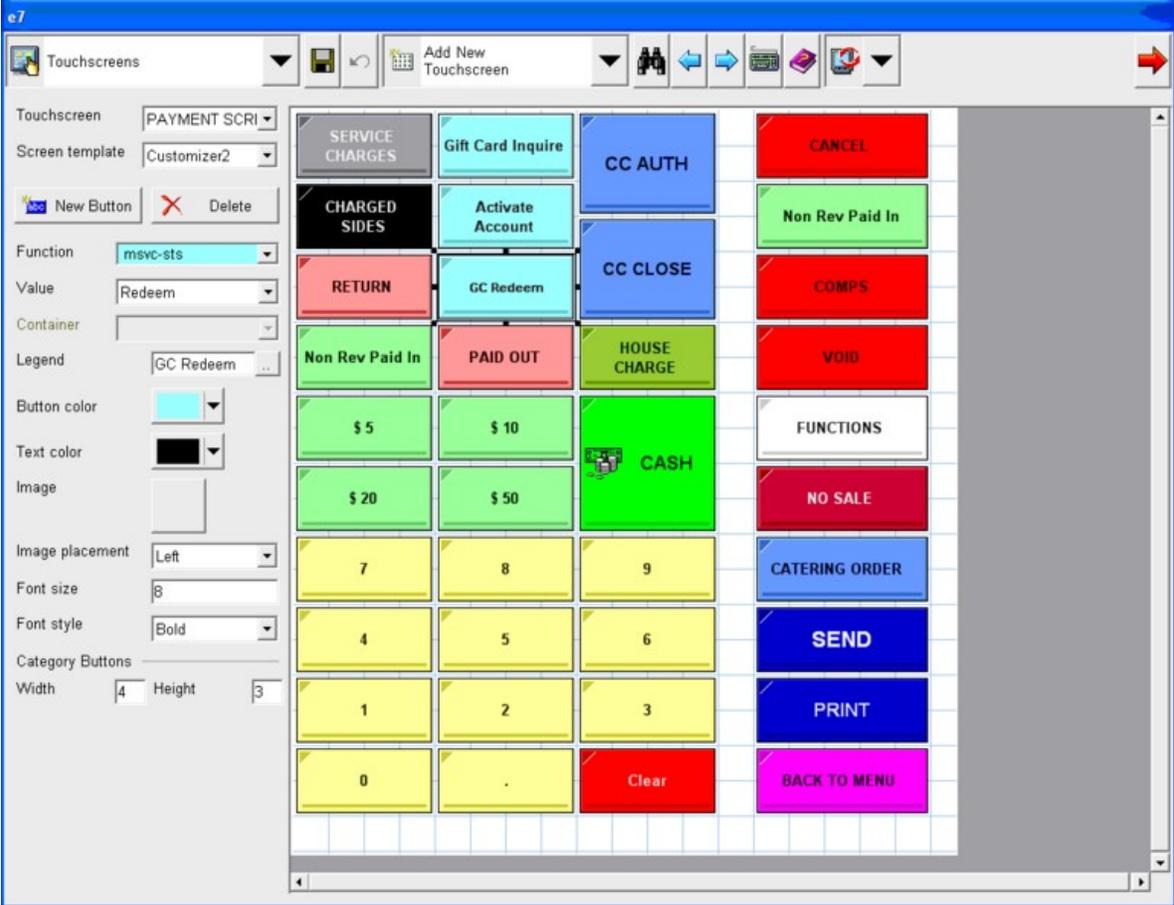
Only 3 touch screen keys are required for gift cards:

Gift Card Activate (also used for reloading value to an existing card.)



Feel free to set the legend/name of this key to any word or phrase that the merchant finds easiest to understand.

Gift Card Redeem



Feel free to set the legend/name of this key to any word or phrase that the merchant finds easiest to understand.

Gift Card Inquiry (Balance Inquiry)

The screenshot displays a software interface for configuring a touchscreen menu. The main area is a grid of buttons for a 'Gift Card Inquiry' screen. The configuration panel on the left includes the following settings:

- Touchscreen: PAYMENT SCRI
- Screen template: Customizer2
- Function: msvc-sts
- Value: Balance Inquiry
- Container: (empty)
- Legend: Gift Card Inquir ...
- Button color: (cyan)
- Text color: (black)
- Image: (empty)
- Image placement: Left
- Font size: 10
- Font style: Bold
- Category Buttons: Width 4, Height 3

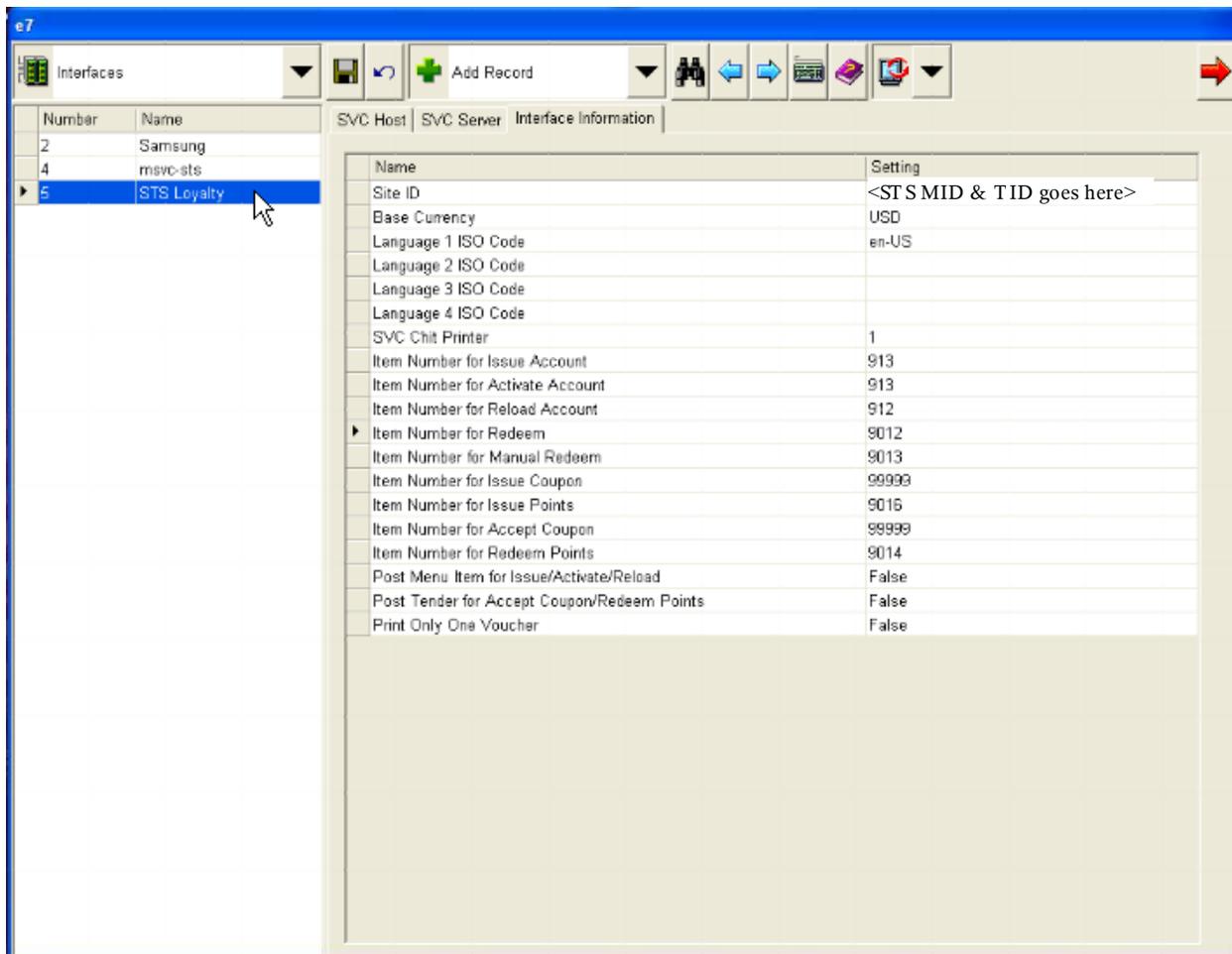
The main grid of buttons is as follows:

SERVICE CHARGES	Gift Card Inquire	CC AUTH	CANCEL
CHARGED SIDES	Activate Account	CC CLOSE	Non Rev Paid In
RETURN	GC Redeem	CC CLOSE	COMPS
Non Rev Paid In	PAID OUT	HOUSE CHARGE	VOID
\$ 5	\$ 10	CASH	FUNCTIONS
\$ 20	\$ 50		NO SALE
7	8	9	CATERING ORDER
4	5	6	SEND
1	2	3	PRINT
0	.	Clear	BACK TO MENU

Loyalty Card Set Up (Skip to the last page if the merchant is not doing loyalty)

It's best to set up a separate interface for loyalty cards so that the reports in Micros allow the merchant to track gift card redemptions separately from loyalty redemptions.

Go to the Interfaces section and add a new interface. You can name the interface anything that you want, but in this sample, we use the name *STS Loyalty*. The item numbers shown below are the default values for our loyalty program, but these values can be customized as needed. You just need to let us know what those values will be so that we set the matching values for each transaction type in our system. Our system has to be set to match the values that you enter here because the item code is included in our approval response to each transaction.



The screenshot shows the 'e7' software interface. On the left, there is a table with columns 'Number' and 'Name'. The row with '5' and 'STS Loyalty' is selected. On the right, there is a table with columns 'Name' and 'Setting'.

Number	Name
2	Samsung
4	msvc-sts
5	STS Loyalty

Name	Setting
Site ID	<STS MID & T ID goes here>
Base Currency	USD
Language 1 ISO Code	en-US
Language 2 ISO Code	
Language 3 ISO Code	
Language 4 ISO Code	
SVC Chit Printer	1
Item Number for Issue Account	913
Item Number for Activate Account	913
Item Number for Reload Account	912
Item Number for Redeem	9012
Item Number for Manual Redeem	9013
Item Number for Issue Coupon	99999
Item Number for Issue Points	9016
Item Number for Accept Coupon	99999
Item Number for Redeem Points	9014
Post Menu Item for Issue/Activate/Reload	False
Post Tender for Accept Coupon/Redeem Points	False
Print Only One Voucher	False

A Tender or Service Charge must be setup for each transaction type that you are using. However, most loyalty programs only use the Issue Points and Points Inquiry transaction types so you will probably only need set up those two Tender types for this interface.

Setting up The Loyalty Tender Type

Set up the Points Issue Tender. Be sure it is setup under the Service Total category so that it does not post points earned as a payment on an open ticket.

The screenshot shows a software interface for configuring tenders. On the left is a tree view with categories: Loan, Payment, Pickup, and Service Total. Under 'Service Total', 'Points Issue' is selected. The main area is titled 'Tender' and has tabs for General, Tender, Presets, Printing, CC Tender, Credit Auth., and Interfaces. The 'General' tab is active. Fields include: Number (9016), Name (Points Issue), Category (0), Priority (0), Image placement (Left), and Image. The Effectivity section has 'From' (01-01-1970 12:00 AM) and 'To' (12-31-2050 12:00 AM) date pickers. The Exempted Tax section has a link 'Exempted Tax Rates' and three unchecked checkboxes: Tax Food, Tax Liq Add On, and Tax Liq Inclusive.

(Uncheck the open cash drawer check box on the Tender tab. Everything else can be left at the default values.)

Points Issue (Add points to a loyalty card)

Touch screen keys for loyalty cards can be on a “function” screen or on the Payment screen.

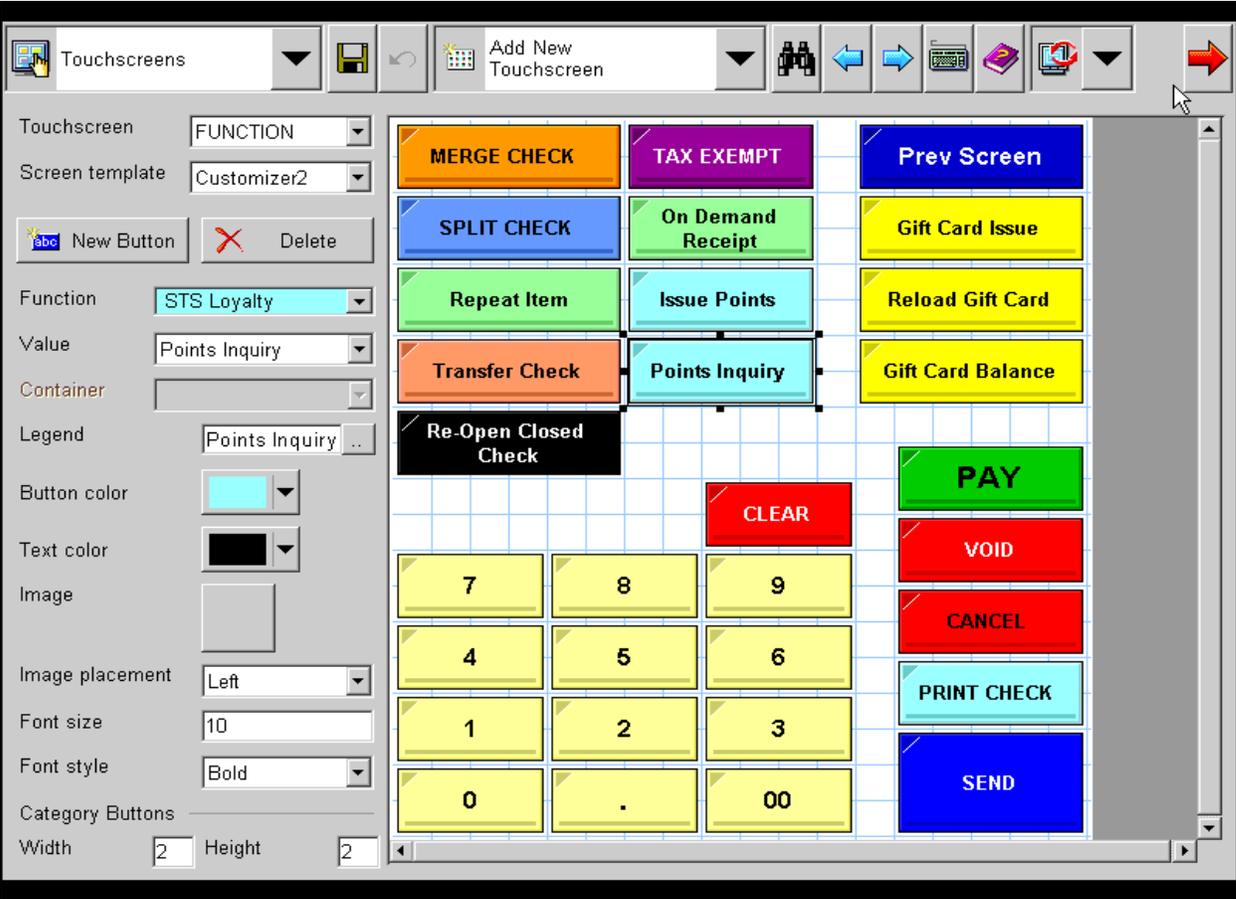
The screenshot displays a software configuration window for touchscreens. The main area is a grid of buttons for a touchscreen layout. The buttons include:

- MERGE CHECK (Orange)
- TAX EXEMPT (Purple)
- Prev Screen (Blue)
- SPLIT CHECK (Blue)
- On Demand Receipt (Green)
- Gift Card Issue (Yellow)
- Repeat Item (Green)
- Issue Points (Cyan)
- Reload Gift Card (Yellow)
- Transfer Check (Orange)
- Points Inquiry (Cyan)
- Gift Card Balance (Yellow)
- Re-Open Closed Check (Black)
- CLEAR (Red)
- PAY (Green)
- VOID (Red)
- CANCEL (Red)
- PRINT CHECK (Cyan)
- SEND (Blue)
- Numeric keypad: 7, 8, 9, 4, 5, 6, 1, 2, 3, 0, ., 00

Configuration options on the left side:

- Touchscreen: FUNCTION
- Screen template: Customizer2
- Function: STS Loyalty
- Value: Issue Points
- Legend: Issue Points
- Button color: Cyan
- Text color: Black
- Image placement: Left
- Font size: 10
- Font style: Bold
- Category Buttons: Width: 2, Height: 2

Points Inquiry (Shows the user the current balance on the card)



Downloading and Installing the STS Host Adapter

The STS Gift Card Adapter acts as a conduit between the Micros SVC interface and our transaction processing system. It is a very small program that accepts transactions from your POS software and sends them to our internet gateway over a secure connection.

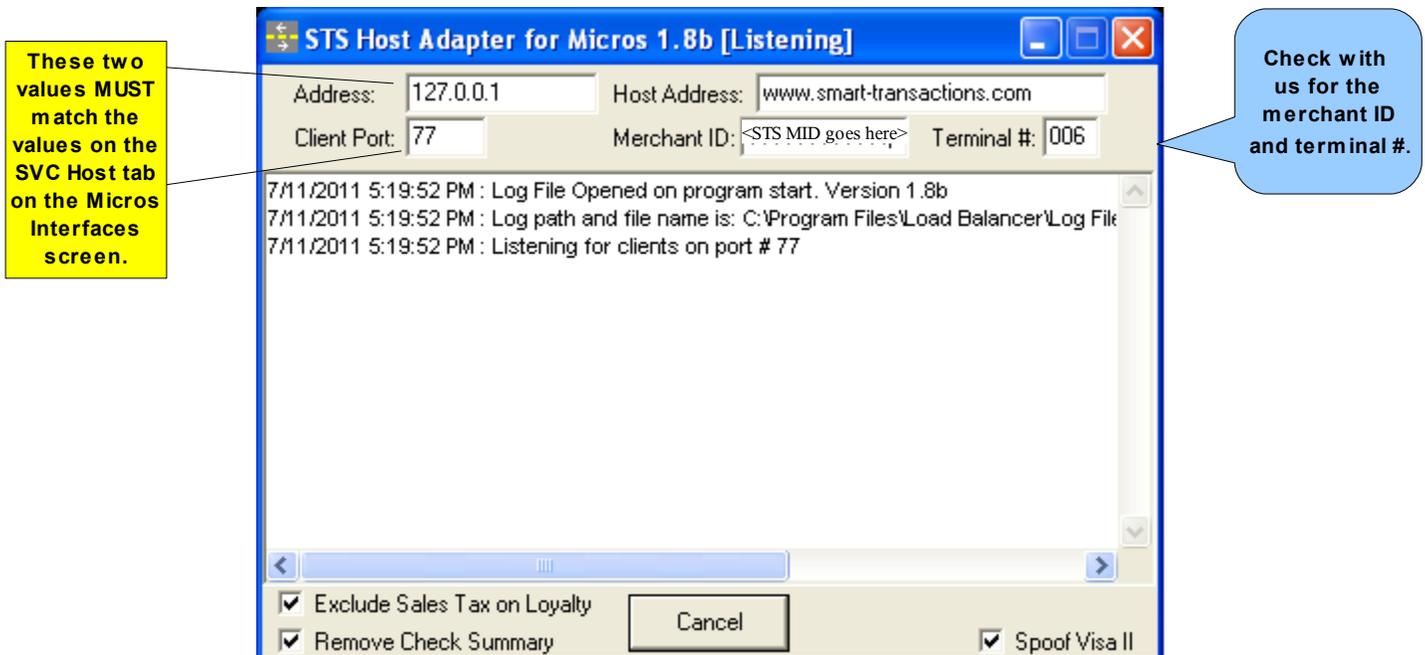
Complete the following steps to install the program:

1. Download *HostAdapterSetup.exe* from our web server at:
<http://smartransactions.com/micros>
2. Run HostAdapterSetup.exe
3. Follow the prompts. (Check the box to create a desktop shortcut.)

The Host Adapter must be running at all times for gift & loyalty cards to work. The install program adds a shortcut to the program to the Startup folder so that the program is started and minimized to the system tray automatically whenever the PC boots up.

5-step Configuration for the STS Gift Card Adapter

1. Enter the merchant's 12-digit Merchant ID and 3-digit Terminal #.
2. The 'Address' field is the IP address that the software will “listen” for transactions on. This will be the IP address of the machine that the STS Gift Card Adapter is installed on. (This is the IP address machine on the LAN, not the public internet address.) The software will normally automatically load the IP address of the machine into this field. The default value of *127.0.0.1* does not need to be changed for most installs.
3. Leave the Host Address at its default value – this is the address of our SSL gateway.
4. The Client Port should be 77.



5. Leave all check boxes at their default settings and click the “Listen” button. The log window will show that the program is now listening for transactions.

After installation and setup, the program will automatically start listening and minimize itself to the system tray whenever the program starts. (The system tray is the small row of icons near the clock on the desktop) The Host Adapter icon looks like this: