

Cashflow STS V4.00

Support & Test Systems for MEI Cashflow Products MEI Systems Engineering

USER MANUAL

MEI Cashflow® STS User Manual

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Installation Procedure

Introduction

This Support Tool is for use with the MEI Cashflow SC Series Bill Acceptor, Cashflow 9500 Coin Acceptors, Cashflow 7000 Coin Changers and Cashflow 690 Coin Changers.

This software, together with the Cashflow Programming Module handheld devices CPM (HII) & CPM (USB) supports Cashflow products both in the field and the Workshop.

The functionality enabled will depend on your license, but this may include:

- Handhelds Allows you to manage Handheld Devices, downloading files for devices, changing Audit settings and upgrading of Handheld firmware.
- Configuration Allows you to load and save configuration to or from a file, and also a connected Bill Acceptor, CF9500, CF690, CF7000 or Handheld device.
- Audit allows you to view stored, and retrieve new audit data from Bill Acceptor devices. Handhelds will automatically save retrieved audits to the database on connection.
- CRC allows you to perform CRC checks on a connected Bill Acceptor device.
- Diagnostics for demonstration purposes displays and runs various tests on a connected Bill Acceptor device.

Installing

Insert the CD and if the installation does not start automatically, Double-Click on Setup.Exe in the CD directory and follow the on-screen instructions.



Device Drivers

Leave the CD-ROM in the drive after installation and on first connection with the Bill Acceptor device or Cashflow Programming Module, Windows will pop up a window "New Hardware Found".

In the "Add New Hardware" wizard, ensure the CD-ROM drive is included for a search for the best driver.

The driver MeiUsb.drv will be located and installed.

If Windows has a problem locating the driver automatically, the driver can be located manually on the installation CD-ROM.

Launching the Cashflow STS Software

Double-click on the Cashflow STS icon on the desktop or select it from the Start menu to launch the application.



Set License Key

Each customer or copy of Cashflow STS has a unique License Key.

This will normally be found on your CD cover.

When starting the application - if the license key has not been set or it is invalid, the License Key window is displayed:



License Window

Enter your License Key and click $\underline{O}K$ to continue.

If the license is invalid, you will be prompted to try again.

If you have an exitsing License Key stored, the license key will displayed on this screen:

Current License: 123456-789ABC-DEF012-345678-9ABCDE-F01234-56789A-BCDEF0

An Administrator can also launch this window from the Admin menu. You may need to enter a new license to enable new features.

Logon

The Logon screen will be shown on start-up:

😤 Cashflow STS: Logo	n	×
mei	cashflow™	
Login Id : Password :	admin	
	in Id and Password and log me in automatically.	
ОК	Cancel <u>H</u> elp	

Logon Window

Enter your Login Id and Password and click OK to proceed.

If enabled, the user may click on "Remember my Login Id and Password and log me in automatically":

Remember my Login Id and Password and log me in automatically.

This will save your username and password on this computer and log you in automatically next time you run the application.

The administrator can disable this facility from the <u>User Manager</u> screen.

Initial Installation

When the system is first installed the only user will be "admin" with an empty password.

You will be prompted to Change Password and can then set up new users with the User Manager screen.

Change Password

If your password has been reset, or at any time from the user menu, you can change your password on the Change Password screen:

🔓 Change Password for Administrator			×
Change Pas	ssword fo	or 'admin'	++
Old Password :	*olololololololok	7-1	
New Password :	*****		
Confirm Password :			
ОК	Cancel	Help	

Change Password Window

Type in your old password (if set) and enter a new password that is at least 6 characters, but less than 16 characters long.

Enter the new password again in the Confirm Password text box.

Click on **OK** to finish.

Note: Passwords are case sensitive.

Main Window

After start-up the main window is displayed.

IMPORTANT: The options available to you will depend on your License and User permissions:



Main Window

Configuration Controls

The Main Configuration Controls are as follows:



Creates and opens a New Configuration for a Cashflow Product in a new Summary Window.

	Allows you to select a Configuration File and loads it into a new Configuration Summary Window.
Save	Allows you to select a directory and filename and saves the selected Configuration to that location.
Print	Sends the summary of the selected Configuration to the Printer. Print Preview is also available from the File menu.
جدی Read	Reads the current Configuration from a connected Device into a new Configuration Summary Window.
♦ د Write	Writes the selected Configuration to a connected Device. Only settings that have Include/Change Setting checked will be written. These appear as bold on the Configuration Summary Window.

You can also access these through the File Menu:

File		
N	lew	Ctrl+N
C	pen	Ctrl+O
S	ave	Ctrl+S
Ρ	rint	Ctrl+P
Ρ	rint Preview	Ctrl+U
R	ead from Device	Ctrl+R
W	/rite to Device	Ctrl+W
۷	erify	
E	xit	

Handhelds

Handheld devices can be used to configure your products remotely:



Brings up the <u>Handheld</u> window. Used for naming, organising and controlling settings and downloading files to Handhelds. Also allows you to update Handheld firmware.

User Functions

MEI Cashflow STS V4.00 - Administrator (admin)						
File	Tools	Reports	User	Admin	Window	Help
	1		1000	gout ange Pa:	ssword	

The currently logged on user name is shown in the title bar as User Name (Login Id).

The User menu contains user management controls for all users.

Select **Logout** to log the current user out and show the Logon screen.

Select Change Password to change the password for the current user – on the Change Password screen.

Select **<u>Auto Login</u>** to toggle automatic logon on and off see the <u>Logon</u> screen for more details.

Administration Functions

Admin	
User Manager	F9
Change License	Ctrl+F9

An Administration user will have access to the <u>A</u>dmin menu and will also have the User Manager icon on the toolbar:



Brings up the <u>User Manager</u> window. This allows the administrator to Add and Remove users, change Login Ids and User Names and also turn on or off the ability to log in automatically.

Select <u>Change License</u> to load the Set License Key window. You may need to use this to upgrade your license to enable new features.

Status Bar

The Status Bar has the following sections:

System Status Indicates the status of the system.	Ldle
Product Connection Indicates the number of products connected, or the Serial Number if there is exactly one connected.	Image: Weight of the second state o
Handheld Connection Indicates the number of Handheld Devices Connected or displays "No Handhelds".	2 Handhelds
Local Date and Time	16/01/2004 14:43

See also Main Window - SC Series, Main Window - CF9500, Main Window - CF7000, Main Window - CF690

Main Window - SC Series

For an SC Series Bill Acceptor you may have other options available.

IMPORTANT: The options available to you will depend on your License and User permissions:

+ Cashflow STS V3 - fred (fred) - [02380408618]	
😹 File Tools User Admin Window Help	_ 8 ×
Image: New Open Image: Save Image: Print Image: Save Image: Save <th< th=""><th>ì</th></th<>	ì
Cashflow SC Series Bill Acceptor (02380408618)	📕 Include/Change All
Description Read from Cashflow SC Series Bill Acceptor - Serial Number : 02380400	Edit 8618
Modules 'Bootloader Firmware' is '280797106' 'Application Firmware' is '281423220'	Edit
'Variant (Bill-set) Firmware' is '111111111'	
Configuration Settings 'BA Serial Number' is '02380408618'	Edit
'Model Number' is 'SC6602'	
'Manufacturer's Code' is 'Mars Electronics'	
'Production Date' is '02/03/2004'	More 🔻
Bill Inhibit Settings	Edit
'USA \$1' is 'Enabled' 'USA \$2' is 'Enabled'	
'USA \$5' is 'Enabled'	
'USA \$10' is 'Enabled'	More 🔽
Idle Serial Number: 0238040E T No Handhelds	01/03/2005 15:17

Main Window

Configuration

Configuration Icons reflect the products connected and licensed:

Read	Reads the current Configuration from a connected Bill Acceptor.
Write	Writes the selected Configuration to a connected Bill Acceptor.
♦ Write	Writes the selected Configuration to a connected Cashflow Programming Module (USB).

Status shows the product connected:

Serial Number: 123456789	Shows the Serial Number of the connected Bill Acceptor if there is only one connected.
--------------------------	--

Tools

Additional tools available for the SC Series Bill Acceptor include:

Audit	Brings up the <u>Audit</u> window. Allows you to retrieve audit from a connected Bill Acceptor and save it to the database or load and view previous audits retrieved from a Bill Acceptor or by a Handheld.
CRC	Brings up the <u>Cyclic Redundancy Check (CRC)</u> window. This allows Regulators or other users to perform CRC checks directly on a connected Bill Acceptor.
Diagnostics	Brings up the <u>Diagnostics</u> window. This allows you to perform Self-Tests on a connected Bill Acceptor.

You can also access these through the Tools Menu.

Tools

100000	
Handhelds	F2
Audit	F3
Diagnostics	F4
Calculate CRC	F5

Main Window - CF9500

After reading from a CF9500 Coin Acceptor the Main Window will look as follows:

IMPORTANT: The options available to you will depend on your License and User permissions:

+ Cashflow STS V3 - fred (fred)	
File Tools User Admin Window Help	
Image: New Open Save Print Image: New Open Image: New Open	
3245Y100107	
Cashflow 9500 Coin Acceptor (3245Y100107)	🔲 <u>I</u> nclude/Chan <u>c</u>
Description Read from Cashflow 9500 Coin Acceptor - Serial Number : 3245Y100107	Edit
General Configuration 'Product Type' is 'CF9520 - No Separator' 'Alarm Switch (HW Switch 1)' is 'On - Alarm Enabled' 'Interface Switch (HW Switch 2)' is 'Off - Parallel/BCO' 'Serial Emulation Mode' is 'Base 1 (Default)'	Edit
Customer Tokens Settings for Token-teach Customer Tokens	Edit
Coins	
Customer Token 1 'Primary Route/Exit' is '8(A)' 'Secondary Route/Exit' is '8(A)'	More 💌 💌
	<u> </u>
🗘 Idle 🥰 2 Products Connected 🦳 No Handhelds 01/03	/2005 15:20

Main Window

Configuration

Configuration Icons reflect the products connected and licensed:

◆ È Read	Reads the current Configuration from a connected CF9500.
➡ inite	Writes the selected Configuration to a connected CF9500.
▶ [■] Write	Writes the selected Configuration to a connected Cashflow Programming Module (HII).

Status shows the product connected:

Serial Number: 452r6456356	Shows the Serial Number of the connected Coin Acceptor if there is only one connected.
----------------------------	--

Main Window - CF7000

After reading from a CF7000 Series Coin Changer the Main Window will look as follows:

IMPORTANT: The options available to you will depend on your License and User permissions:

MEI Cashflow STS V3.0 - Administrator (admin) - [1234R112345]	
📓 Eile Iools Reports User Admin Window Help	_ 8 ×
Image: New Open Save Print Read Write Users	
Cashflow 7000 Coin Changer (1234R112345)	📕 Include/Change All
Description Read from Cashflow 7000 Coin Changer - Serial Number : 1234R112345	Edit 🥂
General Configuration 'Bootloader Firmware' is 'V1.03 ' 'Application Firmware' is 'V1.10 ' 'Serial Number' is '1234R112345' 'Signature Version' is '49'	Edit
Primary Channelset Settings for Primary Channelset 'Part Number' is '717484852' 'Current Revision' is '11' Latest Revision available is '11' 'Acceptance Currency' is 'Currency 1' 'Payout Currency' is 'Currency 1' 'Coin Acceptance Mode' is 'High Acceptance'	Edit
🚺 Idle Serial Number: 1234R112345 🦷 No Handhelds	01/03/2005 12:27

Main Window

Configuration

Configuration Icons reflect the products connected and licensed:

Read	Reads the current Configuration from a connected CF7000.
Write	Writes the selected Configuration to a connected CF7000.
▶ [■] Write	Writes the selected Configuration to a connected Cashflow Programming Module (HII).

Status shows the product connected:

Serial Number: 0000E600t	Shows the Serial Number of the connected Coin Changer if there is only one connected.
--------------------------	---

Main Window - CF690

Cashflow STS V4.00 introduced support for the CF690 Series Coin Changer. After reading from a CF690 Changer the Main Window will look as follows:

IMPORTANT: The options available to you will depend on your License and User permissions:

 MEI Cashflow STS V4.00 - Administrator (admin) - [3553GD10452] File Tools Reports User Admin Window Help 		
Image: New Open Save Print Read Write Handhelds Audit CRC Diage	jnostics	
Cashflow 690 Coin Changer (3553GD10452)	<u>Include</u>	/Change All
Description Read from Cashflow 690 Coin Changer - Serial Number : 3553GD10452	Edit	
General Configuration 'Bootloader Firmware' is '0.00' 'Application Firmware' is '4.04' 'Serial Number' is '3553GD10452' - (2,1,1)	Edit	
'Display Language' is 'English' - (6,11,1) Primary Channelset <i>AS CF690</i> 'Part Number' is '717488811 10' - (23,1,1) Latest Revision available is '10'	Edit	
'Coin Acceptance Mode' is 'Currency 1' - {3,2,1}	More 🔻	
Payout Configuration 'Tube Configuration' is 'Cassette AA - AS10Cent, AS50Cent, AS20Cent, AS20Cent' - {5,2,1 'Fill Tubes To' is 'Max. Fill Level' - {5,3,1} 'Dispense to' is 'Safe Count' - {5,4,1} 'CleanMe Threshold' is '32' - {5,1,1}	Edit More 🗸	
Interface Settings 'Coin Scaling Factor' is 'Automatically Computed by Changer' - (20,1,1) Interfaces	Edit	
MDR 'MDR Level' is 'Level 3 All Features (as per CE560)' - (17.1.1) Idle Image: Serial Number: 3553GD10452 Idle Image: Serial Number: 3553GD10452	3/7/2006	3:30 PM

Main Window

Configuration

Configuration Icons reflect the products connected and licensed:

ead Read	Reads the current Configuration from a connected CF690.
→ Write	Writes the selected Configuration to a connected CF690.
▶ , Write	Writes the selected Configuration to a connected Cashflow Programming Module (HII).

Tube and Designator Calculator

This function allows the user to calculate the tube size and designator size for a relevant coin, thus enabling them to create their own specific payout configurations. The required input parameters are coin diameter and coin thickness.

Tube Settings			
Coin Diameter (mm) : Coin Thickness (mm) :			= +
<u>о</u> к		<u>C</u> ancel	<u>H</u> elp

Status shows the product connected:

Serial Number: 3553GD10452	Shows the Serial Number of the connected CF690 if there is only one connected.
----------------------------	--

Handhelds

Click on the Handhelds button to launch the Handheld Devices window.

The Handheld Devices window will be displayed:

🚰 Handhelds	
	Handheld Devices
🗭 Group One	General Details Advanced Settings
Chris	Cashflow Programming Module (USB)
fred	Name: Chris Set
	Serial Number: 2933Y6600526
	Select Group: Group One <u>N</u> ew
	Files
	Name Size Type
	280794111_FLASH 51.9 KB Variant FW
	280794111_FLASH 51.9 KB Bootloader Fw
	Download File Delete All
	<u>H</u> elp <u>C</u> lose

Handheld Devices Window

The Handheld Devices Window contains the <u>Handheld Tree View</u> together with tabs containing <u>General Details</u> and <u>Advanced Settings</u> on the selected handheld device.

Handheld Tree View

The Handheld Tree View shows all the Handheld devices that have been registered to this installation or database:



It allows you to organise your handheld devices into meaningful Groups.

Groups

Double-click on a group to open or close the group folder:



Click into a selected group name to edit the name in the tree:



See the Groups section in General Handheld Details for moving devices and creating new Groups.

Handheld Devices

There are two types of Handheld devices: CPM (USB) and CPM (HII) they are distinguished by the type of icon used for their display.

All Handheld devices that have been connected to this installation or database are shown on the screen whether they are connected or not.

This allows you to check the settings and downloaded files that were remembered from the last time the device was connected.

The icons in the tree view are as follows:

For CPM (USB)Device not
Connected
Connected
Connected
with no fileConnected
with filesConnected
and Busy

For CPM (HII)



The right hand frame shows details of the selected Handheld Device.

Click on a selected Handheld to change the device's name in the tree:

-	Sec. 11
	Fred
1	

You can change a name whether the device is connected or not and this will update the name on the device next time it is connected.

Status Bar

The progress bar shows the progress being made of any action on a Handheld Device:



Formatting File System



General Handheld Details

General Details A	dvanced Set	tings		
Cashflov	v Prograr	mming M	odule (U	SB)
Name:	Chris			<u>S</u> et
Serial Number:	2933Y660	0526		
Select Group:	Group One	e	.	New
Files				
Name		Size	Туре	
2807941	11_FLASH	51.9 KB	Variant FW	/

This tab contains General Details about the handheld, including the Name, Serial Number, Group and Files.

Name

This displays a user-assigned name for the Handheld. This could be the name of the Handheld user or another Id.

Type in the text box and click Set or change the name in the tree view.

Changing the name is valid whether connected or not, if not connected the name will be updated on the device the next time it is connected.

Serial Number

Serial Number:	0833Y5600711

This displays the serial number of the unit – whether connected or not.

Group

Select Group:	Casino Gaming	<u>N</u> ew
	Casino Gaming Retail Parking	

This displays and allows you to change the group to which the Handheld is assigned.

Changing the group is valid whether the Handheld is connected or not, as this information is only stored in the Support Database.

Click on <u>N</u>ew to create a new group.

Files

Name	Size	Туре 🔺
280794111_FLASH	51.9 KB	Variant FW
280794111_FLASH	51.9 KB	Bootloader Fw
	101 7 / D	A
Download File De	lete File	Delete All

This frame shows all the Files currently loaded onto a Handheld whether it is connected or not.

The icons for CPM (USB) are as follows



The icon for CPM (HII) is as follows

	Configuration files	
--	---------------------	--

When connected click on **Download File** to locate files to download. The following file formats are accepted:

Extension(s)	Туре	Description
*.XCF, *.XML, *.XPS	XML Configuration Files	This may contain Firmware, Currency and Configuration data - created using the main configuration controls.
*.BIN	SC Series Firmware	Allows you to download Bill Acceptor firmware on to a Cashflow Programming Module (USB)

Click on $\underline{\mathbf{D}}$ elete File to delete the currently selected file.

Click on **Delete** <u>All</u> to delete all the files on the handheld.

Advanced Handheld Settings

The second tab contains Advanced Details and Tools, including Power-Ups, Errors, Firmware Versions and Audit Settings.

Power Up Count:	90	<u>R</u> eset Count
Error Count:	0	View Errors
Application V1.0 Bootloader V1.0 USB Slave V1.0 USB Master V1.0		<u>U</u> pgrade

Power Up Count

Power Up Count: 90 <u>R</u>eset Count

Shows the number of Power-Ups or Usage count since it was last reset.

Click on **<u>R</u>eset Count** to reset this number to zero.

Error Count



Shows the number of Errors that occurred on the Handheld since they were last cleared.

Click on **View Errors** to show the Error Log window.

Firmware Versions

Application V1.0	
Bootloader V1.0	
USB Slave V1.0	Unarada
USB Master V1.0	<u>U</u> pgrade

This displays the current firmware versions on the Handheld device.

Separate Firmware blocks exist for Application, Bootloader, USB Slave and USB Master.

Click on **Upgrade** to locate a "*.cfu" or "*.cfh" firmware file which can be downloaded to the Handheld.

The file names will contain "app" for Application, "sbl" for secondary Bootloader, "util1" for USB Slave and "util2" for USB Master.

Audit Retrieval Settings

-Audit Retrieval Settings-

- Automatically Download from Bill Acceptor
- 🔲 Clear Audit

This allows you to change settings for automatic audit retrieval.

Set *Automatically Download from Bill Acceptor* to make the Handheld retrieve audit data from a Bill Acceptor when it connects – this audit data will automatically be retrieved from the Handheld and saved to the Audit database.

Set Clear Audit to make the Handheld clear audit information from a Bill Acceptor after it finishes any other tasks.

This frame is not displayed for CPM (HII) devices as it is not applicable.

Advanced Tools

Advanced Tools	
<u>F</u> ormat Filesystem	U <u>n</u> -Register Handheld
<u>Format Filesystem</u>	Un-Register Handheld

Un-Register Handheld allows you to unregister a connected Handheld device.

This removes the device from the database and releases the Handheld so another licensed customer can use it.

Format Filesystem formats and checks the file system of a connected Handheld device.

Handheld Error Log

The Handheld Error Log Viewer shows any errors that may have occurred on the Handheld since the log was last cleared:



Upgrade Handheld

This window will be displayed when the system detects that a handheld upgrade is available.

🚹 Upgrade Handheld		×
Connected Handheld	l requires an Upgrade!	
We recommend you allow the firmware please confirm below.	system to upgrade the Handheld's	•
Serial Number :	0833Y5600711	
Current Name :	James	
Updating Do not disconnect		
Do You Wish to Upgrade N	low?	
Yes	No Help]

Upgrade Handheld Window

The Serial Number and Name of the handheld requiring an upgrade is displayed.

If you select $\underline{\mathbf{Y}}$ es then a firmware upgrade will be initiated.

A progress bar will be displayed indicating the download status.

You can select <u>No</u> to defer this operation although it is generally recommended to perform updates when available.

Cashfow Programming Module

CashflowTM Programming Module is a Handheld device that can be programmed with Firmware and Configuration Files and used to collect audit from Bill Acceptors.

The Handheld connects to the PC and Bill Acceptor via a USB cable.

The device gives feedback through two LED's when communicating to the product, the following table can be used to interpret the codes:



Configuration

Using Configuration Controls, configurations can be created as:

- <u>New documents.</u>
- Read from a Bill Acceptor, CF9500, CF690 or CF7000
- <u>Opened</u> from a saved file.

Once a configuration has been loaded it is displayed as a Configuration Summary document. The document can edited and can then be:

- <u>Saved</u> as a file
- <u>Written</u> to a device.

Configuration Summary

The configuration settings are displayed in the Configuration summary window:

3 02380408618		<u>_ ×</u>
Cashflow SC Series Bill Acceptor (02380408618)		Include/Change All
Description Read from Cashflow SC Series Bill Acceptor - Serial Number : 0238040861	Edit 8	
Modules 'Bootloader Firmware' is '280797106' 'Application Firmware' is '281423220' 'Variant (Bill-set) Firmware' is '111111111'	Edit	
Configuration Settings 'BA Serial Number' is '02380408618' 'Model Number' is 'SC6602' 'Manufacturer's Code' is 'Mars Electronics' 'Production Date' is '02/03/2004'	Edit More 🔻	
Bill Inhibit Settings 'USA \$1' is 'Enabled' 'USA \$2' is 'Enabled' 'USA \$5' is 'Enabled' 'USA \$10' is 'Enabled'	Edit More 🔻	
Bill Security Settings 'USA \$1' is 'High Acceptance'	Edit	

The first four items from each group are displayed, click on the More button to see the complete list of items in that group.

Edit Configuration Settings

Editing Text Items

To set the value, click on Include/Change Setting and type in the edit box.

Model	Number
-------	--------

CF SC 86

Include/Change Setting

Selecting From a Range

To set the value, click on Include/Change Setting and then type in a number, or click on the Spin buttons to select desired value.

Trigger Discount

-	🔽 Include/Change Setting
	+

Selecting From a Drop-Down List

To set the value, click on Include/Change Setting and then click on the Down button to display the list of options. Click on the option you wish to select:

Display Language

English UK	•
Undefined	
English US	-
Canadian French	
American Spanish	
English UK	
German	
French	
Dutch	-

☑ Include/Change Setting

Extendable Lists

Some lists may not be fully populated until Channelsets are loaded:

Channel Maps to Coin



☑ Include/Change Setting

After loading a channelset may become:

Channel Maps to Coin

Customer Token 1	-
Customer Token 1	
Customer Token 2	
Not Set	
GB 5 PENCE	
GB 10 PENCE	
GB 20 PENCE	
GB 50 PENCE	
GB 1 POUND	-

☑ Include/Change Setting

Descriptive Lists

Other list may become more descriptive once a channelset is loaded:

Tube Configuration

▼ Cassette AA Cassette AB Cassette AD Cassette AE Cassette BA Cassette BB Cassette BC Include/Change Setting

After loading a channelset may become:

Tube Configuration	Cassette AC - US 1 Cent, US 1 Cent, US 5 Cent, US 10 Cent, US 25 Cent	🔽 Ir
	Cassette AC - US 1 Cent, US 1 Cent, US 5 Cent, US 10 Cent, US 25 Cent	
	Cassette AD - Not Set, Not Set, Not Set, Not Set, Not Set	
	Cassette AE - US 10 Cent, US 5 Cent, US 10 Cent, US 25 Cent, US 25 Cent -	
	Cassette BA - US 25 Cent, US 5 Cent, US 25 Cent, US 25 Cent, US 25 Cent	
	Cassette BB - US 10 Cent, US 5 Cent, US 10 Cent, US 25 Cent, US 5 Cent	
	Cassette BC - Not Set, Not Set, Not Set, Not Set, Not Set	
	Cassette BD - US 10 Cent, US 1 Cent, US 1 Cent, US 25 Cent, US 5 Cent	
	Cassette BE - Not Set, Not Set, Not Set, Not Set, Not Set	

☑ Include/Change Setting

This detail is also shown in the summary window:

Set 'Tube Configuration' to 'Cassette AC - EU 5 Cent, EU 10 Cent, EU 50 Cent, EU 20 Cent, EU 1 Euro'

Selecting From a List Control

To set the value, click on Include/Change Setting and then click on the option you wish to select.

794219001: CF9524 - 4 Way Separator, 1 Pin Top Entry, A Reject, Uppe	r Pins 🔺
794217002: CF9528 - 8 Way Separator, 1 Pin Top Entry, A Reject, Uppe	r Pins 💳
794215003: CF9520 - No Separator, Front Entry, C Reject	
794213004: CF9520 - No Separator, 1 Pin Top Entry, C Reject, Upper Pi	าร
794571002: CF9524 - 4 Way Separator, 1 Pin Top Entry, A Reject, Uppe	Pins
794211005: CF9520 - No Separator, 1 Pin Top Entry, A Reject, Upper Pi	ns 🔻

☑ Include/Change Setting

Editing Binary Coded Values

To set the value, click on Include/Change Setting and then click on the values you wish to set.

Binary Coded Outputs (BCO)	A(1)	B(2)	C(4)	D(8)	E(16)	F(32)	= 13	☑ Include/Change Setting
----------------------------	------	------	------	------	-------	-------	------	--------------------------

The BCO value will be re-calculated on each value click.

This detail is also shown in the summary window:

Set 'Binary Coded Outputs (BCO)' to 'A(1) & C(4) & D(8) & E(16)'

Selecting From a Combination Control

A combination control allows you to select a from number of predefined values or set a value within a certain range.

Click on Include/Change Setting and then either click on the option you wish to select, type in a value or use the Spin buttons to set to the number required.

Price 1

Build Standard

100	-
Free Not Set	
Invalid	

🔽 Include/Change Setting

Selecting From a Firmware Control

A firmware control allows you to select a firmware file to be downloaded to a connected unit.

🙀 Edit Modules	×
Modules	📕 <u>I</u> nclude/Change All
Firmware or Data Modules contained i	n, or to be downloaded into the Bill Acceptor 🛛 📥
Bootloader Firmware	Load 🔽 Include/Change Setting
Application Firmware	Load 🔲 Include/Change Setting
Variant (Bill-set) Firmware	East Dashala Change Calling
	<u> </u>

Click on Include/Change Setting and then click on the Load button, a file dialog will appear to allow you to navigate to the firmware file of your choice.

Load Bootloader	Firmware	<u>? ×</u>
Look in:	🔂 Bootloader 🗾 🗢 🖻 📸 📰 🗸	
History Desktop My Documents	Archive 280794111_FLASH.BIN 280797106_FLASH.BIN	
My Computer	File name: Image: Trimware Files (*.bin) Files of type: Firmware Files (*.bin) Image: Open as read-only	Open Cancel

🙀 Edit Modules			x
Modules			📕 Include/Change All
Firmware or Data Me	odules contained in, or to be do	ownloaded into the	e Bill Acceptor 🔶
Bootloader Firmware	280794111_FLASH	Load	✓ Include/Change Setting
Application Firmware		Load	Include/Change Setting
Variant (Bill-set) Firmware		Load	Include/Change Setting
		Load	☐ Include/Change Setting
			<u> </u>
			<u> </u>

Bill Acceptor Audit

Click on the Audit tool bar button to launch the Audit window.

The Bill Acceptor Audit window will be displayed:

📶 Bill Acceptor Audit Data	Bill Acceptor Audit Data					
	Bill Acce	ptor Audit Data	I I I			
Audit Details Number of Audits		Audit Date / Time 24-Nov-05 17:13:15	H			
Variant Part number 49005	3240	Unit Serial Number 05580623576				
Summary General QP Measures Fa	ilures Bill Audi	it]	I and a set of the set			
Calculated Details						
Number of Inserted Notes	4057	Number of Inserted Barcodes	656			
Number of Rejected Notes	40	Number of Rejected Barcodes	197			
Number of Accepted Notes	4017	Number of Accepted Barcodes	459			
Audit Acceptance Rate for Notes	99.01%	Audit Acceptance Rate for Barcodes	69.97%			
Main Summary						
Total Docs Reached Escrow Positio	on 4713	Total Value of Notes Stacked	87190			
Total Documents Stacked	4467	QP Rate	1.07			
Overall Customer Acceptance Rate	94.96%					
Read from Device	- Audit Data	ab 200				
Retrieve Audit			Help			
Reset Audit	<u></u>	Audit	Close			

Bill Acceptor Audit Window

Read from Device

Use the Read from Device controls to Read and Reset Audit data on an attached unit.



Click on **<u>Retrieve</u>** Audit to read from a connected Bill Acceptor.

Click on Reset Audit to re-initialise the non-lifetime audit values on the Bill Acceptor.

The Cashflow Handheld device can be set up to retrieve audit automatically. This Audit Data will be retrieved from the unit and saved to the database on connection.

Audit Database

Use the Audit Database controls to Load and Save Audit to and from the Database.

-Audit Database-



Click on **Save Audit** to save a Retrieved Audit to the Database.

Click on **Load Audit** to launch the Select Audit(s) window:

Se			nt Au			date:
30 6 13 20 27 4 2 7 5 6	Tue 31 7 14 21 5 Tod 69322	<u>₩ed</u> 1 8 15 22 29 6 Iay: 3	Thu 2 9 16 23 30 7 30/0 5 0/0	Fri 3 10 17 24 1 8 9/20	Sat 4 11 25 2 9 004	Sun 5 12 19 26 3 10

Select date from which, you require Audits.

Select Unit Serial Number from the list of audits available.

Click on *Select Historic Audits* to list all audits retrieved for that unit:

Unit Serial Number	Audit Date & Time
123654789	08/21/03 13:43:48
123654789	09/01/03 16:00:39
123654789	09/01/03 16:03:03

Select more than one audit from the list if you wish to combine the results:

Unit Serial Number	Audit Date & Time
1234567890123456789	09/15/03 17:31:29
123654789	09/01/03 16:03:03
51280406123	07/10/03 11:32:20

When Recent or Historical selection made, click \underline{OK} to load the audit required.

Export Audit

You can select one or more audits in the list and click Export.

Then if you select a directory/filename - it will save the selected audits to a file in the directory - e.g. "123456789 (1).xaf".

It will use the serial number of the unit as the main filename, and if there are more than one, but with different dates it will number them.

Select Audit(s)	
Sele	ct Audit(s)
Select <u>Recent Audits before date:</u> September 2004 ▶ 30 31 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 1 2 3 4 5 6 7 8 9 10 ► Today: 30/09/2004	Unit Serial Number Audit Date & Time 123456789 10-Jul-03 11:32:20 123456789 21-Sep-04 15:49:29 123456789 22-Sep-04 08:28:37 12345 Load Audit Export Audit -Sep-04 08:28:45 Delete Audit Delete Audit
Export Import	
Load	Cancel <u>H</u> elp

Import Audit

If you click on Import you can select any number of files to import into the database:

If the audit record already exists in the database (i.e. there is a record with the same Serial Number and Date and Time) then you will be told it is not unique.

Otherwise the records will be added to the database and you can view and analyse them in the normal way.

Select Import File	e(s)	<u>? ×</u>
Look jn:	🔁 Support Component Library (SCL) 💽 🔶 🖆 📰 🗸	
History Desktop My Documents My Computer	 Debug ReleaseUMinDependency SCL_AuditTest 123456789 (1).xaf 123456789 (2).xaf 123456789 (3).xaf 	
My Network P		oen ncel

Delete Audit

If you right click on any selected audits in the list - you can select Delete Audit.

After you confirm the deletion these audits and associated values will be removed from the database permanently.

General Audit

General audit values are separated into separate audit tabs:

Summary tab contains Calculated or Derived values.

General, QP Measures and Failures tabs contain other values stored by and retrieved from the Bill Acceptor.

ummary General QP Measures 1	Failures Bill Audit		
Calculated Details			
Inserted Quantity for Bills	0	Inserted Quantity for Barcodes	0
Rejected Quantity for Bills	0	Rejected Quantity for Barcodes	0
Acceptance Quantity for Bills	0	Acceptance Quantity for Barcodes	0
Audit Acceptance Rate for Bills	100%	Audit Acceptance Rate for Barcodes	100%

For more help on the audit item definitions, please refer to the Cashflow STS help.

Bill Audit

The Bill Audit tab shows the notes with their descriptions and audit values retrieved or calculated from the Bill Acceptor data.

Bills 1 - 10 Bills	11 - 20 Bills	21 - 30 Bills	31 - 40 Bil	ls 41 - 50			
	Bills Recognised	Passed Validation	Bills Stacked	% of Total	Total Value	% of Takings	Audit Accept Rate
GBP 5 (PA)	0	0	0	100%	0	100%	100%
GBP 10 (PA)	0	0	0	100%	0	100%	100%
GBP 20 (PA)	0	0	0	100%	0	100%	100%
ECO 1 (AA)	0	0	0	100%	0	100%	100%
ECO 5 (AA)	0	0	0	100%	0	100%	100%
ECO 5 (CA)	0	0	0	100%	0	100%	100%
ECO 5 (DA)	0	0	0	100%	0	100%	100%
ECO 5 (EA)	0	0	0	100%	0	100%	100%
ECO 10 (CA)	0	0	0	100%	0	100%	100%
ECO 10 (DA)	0	0	0	100%	0	100%	100%

Quantity Accepted – shows the actual number of notes accepted.

% Of Total – shows the number of bills accepted as a percentage of all notes accepted.

Total Value – shows the total value of this quantity of notes.

% Of Taking – shows the value of each bill type shown as a percentage of the overall value of notes accepted.

Audit Accept Rate – is based on the number of notes recognised vs. the number stacked.

Cyclic Redundancy Check (CRC)

Click on the CRC toolbar button to launch the Cyclic Redundancy Check window.

The CRC window will be displayed:

Calculate CRC				_ 🗆 ×
Bill Ac	ceptor - (Cyclic Redun	dancy Cl	neck
Offset/Address Seed Value	AD34F5EF	Calculate CRC	CRC FF	9
			<u>H</u> elp	Close

Bill Acceptor CRC Window

Regulators can use this window to perform a CRC check on a connected Bill Acceptor device.

Enter an 8 character hex value 0-FFFFFFF into the Offset/Address text box.

Enter a 4 character hex value 0-FFFF into the Seed Value text box.

Click on the Calculate CRC button.

The Bill Acceptor is interrogated and the CRC value is displayed in the window.

Bill Acceptor Diagnostics

To launch the Diagnostics window, click on the Diagnostics toolbar button.

The Bill Acceptor Diagnostics window will be displayed:

🔤 Bill Acceptor Diag	nostics				
	B	ill Acceptor	Diagnos	tics	
Self Test 1 Self Tes	t 2 Test Report		-		Load Scrip <u>t</u>
- Recognition Sys	tem	F 0 7		10	
Edge 1	$\overset{2}{\bullet} \overset{3}{\bullet} \overset{4}{\bullet}$				
	000	000			
Start	Sensor				
	Barcode				
		General			Diagnostics Supported
L					
	Interface	Card			
	1		Stacker S	ensor	Run Self Test 1
	CC Sen	sor			
				1	1 1
			m@i		Help
<u>B</u> un All	Print	Load Results	Save Result	ts Clear Resul	ts <u>C</u> lose

Bill Acceptor Diagnostics -

The Bill Acceptor Diagnostics window allows you to run basic tests on a connected Bill Acceptor Device.

The diagnostic toolbar contains the following options:

<u>B</u> un All	Runs all tests: Self-Test 1, Self-Test 2 and also reads the Current Configuration.	Print	Prints the test report shown on the Test Report tab.
Load Results	Loads test results from a file.	Save Results	Saves test results to a file.
Clear Results	Clears results.		

Self-Test 1

This runs the basic self-test on the Bill Acceptor and shows the results on the screen.

Click \underline{R} un to run test on the connected Bill Acceptor device.



Test Results

A pass result is indicated by a Green display.

A negative result is shown in Red.



If your Bill Acceptor has a version of Software that does not support Diagnostics - this will be indicated:



Test Item Details

Double-click on any test item to show test item details:

i Test Item D	etails X			
Test Item	Start Sensor			
Test Result	LED Failed			
Repair Method	Check LED is not blocked, Replace Control Board or Optics Board			
	<u>H</u> elp			

Double-click on any test item to show test item details:

Self Test 2

This runs a Built in self-test on the Bill Acceptor, but requires user instructions, actions and/or user confirmation:



Bill Acceptor Diagnostics –Self Test 2

User Confirmation

The user is asked to initiate and confirm certain events.

	Test Confirmation	×
Cashflow STS X Watch the LEDs and press OK to continue	Did the Red LED flash ?	
OK	<u>Yes</u> <u>N</u> o Cancel	
Event	Event Confirmation	

Event Confirmation

Test Report

The Test Report tab allows you to view the details of the current test.

SC Series D	agnostics	- Passed		Details
Fest Details				
Time/Date	28-Feb-05 16	5:44:44		
Operator	James Poupar	James Poupard (Jimbob)		
Serial Number	874869320			
Notes	Test for User	Documentation, De	monstraion and Training.	
Self Test 1 - Pa	ssed			
Test Item	Test Status	Description	Repair Method	

Bill Acceptor Diagnostics - Test Report

Test in Progress

If the test has not completed then this is indicated at the top of the report:

SC Series Diagnostics - In Progress

Grey sections indicate any untested parts:



Click on "Read Configuration" to load the current configuration from the Bill Acceptor.

Test Failures

If there are any failures this is indicated at the top of the report:

SC Series Diagnostics - Failed

Red sections give details of failures:

Self Test 1 - Failed

Test Item	Test Status	Description	Repair Method
Diagnostics Supported	Passed	-	-
Start Sensor	Failed	LED Failed	Check LED is not blocked, Replace Control Board or Optics Board

Test Details

Click on <u>Edit Details</u> to edit operator name and enter any operator notes:

Operator	James Poupard (STS)
Notes	Diagnostics Demo for MEI Cashflow SC Series Bill Acceptors. Release V3.0 - Q2 2005

User Manager



Click on the Users button to launch the User Manager window. The User Manager window will be displayed:

	ι	lser Manager	
Login Id	Name	User Details	
admin Tred	Administrator Fred Haskins	Logon Id: Fre	ed
		Name: Fre	ed Haskins
		User Permissio	ns:
Ad	d <u>R</u> emove	 Handhelds Cashflow SC So Audit Calculate CRC Diagnostics Manufacturing PROM Status 0 Bill Security Con Bootloader Con View Hardware 	Configuration Configuration nfiguration nponent Visible
	Auto Logon for all users	Click here to clear user's password.	the Reset Pass <u>w</u> ord

User Manager Window

The User Manager window allows an administrator to control a user's access to the system.

To add a new user click on the **A<u>d</u>d** button.

The *Logon Id* and *Name* of a selected user can be changed in the boxes situated to the top right of the window:

Logon Id:	Fred
Name:	Fred Haskins

The *User Permissions* for a selected User can be changed in the User Permissions view – this allows the administrator to Enable/Disable different features for a particular user:

User Permissions:	
Handhelds	
Cashflow SC Series Bill Acceptor	
🗹 Audit	
Calculate CRC	
Diagnostics	
Manufacturing Configuration	_
PROM Status Configuration	
Bill Security Configuration	
Bootloader Component Visible	
View Hardware Choice	-

Note: The features displayed will depend on your license permissions.

Click on **Reset Pass<u>w</u>ord** to clear the selected user's password this will result in the user being asked to set a new password the next time they logon. This feature enables the administrator to recover if a user forgets their password.

To delete a user from the system click **<u>Remove</u>**. This will permanently remove the user from the system.

Checking *Allow Auto Logon for all users* will allow all users to select Auto Logon – so their machine will remember their User Name and Password and log them in automatically next time they run the system.

Error Handling

If an Error occurs - the Error window will be shown:

😫 MEI ERROR	<u> </u>
USB Communication Error USB Port not open in ReadDirectory	ОК
	etails >>

The user can cause this kind error by disconnecting the Bill Acceptor, while trying to read data from it.

For non-user errors - Click on **Details >>** to show details of the Error.

This can be fed back to MEI if the problem persists.

\rm MEI	ERROR	
	USB Communication Error USB Port not open in ReadDirectory	OK Details >>
File:	c:\sts\mei product library (mpl)\mpl_fieldprogrammer\mpl_fpfiles	ystem.cpp
Line:	227 Revision: \$Revision: 1.29 \$	Log <u>C</u> opy

Click on **Save Log** to create a text file containing all errors, warnings and messages generated since the application started.

Click on **Copy** to paste errors, warnings and messages to the clipboard.

Help/About

Select \underline{A} bout from the \underline{H} elp menu to display the About window:



About Window

This displays the Support Tool version and MEI part numbers of all of the components used for this software.

Click System Info... to display standard Windows system information.

This information can be saved to a file and sent to MEI for analysis.

This is helpful in diagnosing system faults.

Contact MEI Technical Support on 1-800-345-8172 or visit <u>http://www.meigroup.com</u> for more information, help or support.