

Cashflow STS V7.22

Support & Test Systems for MEI Cashflow Products CPI Systems Engineering

USER MANUAL

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Installation Procedure

Introduction

This Support Tool is for use with the MEI Cashflow SC Series Bill Acceptor, SC Advance Bill Acceptor and Recycler (SCR), Cashflow 9500 Coin Acceptors, Series 2000 and CX Bill Acceptors, VNR, Cashflow 7000 Coin Changers, EC6000 and EC6970 Coin Changers, Cashflow 690 Coin Changers, Cashflow 8000 Coin Changers and Cashflow Vending Audit Modules.

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, Coin Acceptor/Changer or Handheld device. CF8000 and VAM configuration and CX firmware files may also be written to a USB Flash Drive.
- Audit allows you to view stored, and retrieve new audit data from SC Series and Series 2000 Bill Acceptor devices.
 Handhelds will automatically save retrieved audits to the database on connection. Audit can also be used to view audit files retrieved from vending machines in a human readable format.
- CRC allows you to perform CRC checks on a connected SC or SC Advance Series Bill Acceptor device.
- Diagnostics displays and runs various tests on a connected SC/SC Advance Bill Acceptor, CF7000, CF7906, CF8000 or EC6000 Coin Changer device.

Installing

Insert the CD and if the installation does not start automatically, Double-Click on *Cashflow STS 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.

CF8000 USB Driver

The install application for the USB driver for CF8000 and VAM is loaded onto the PC by the STS installation. This has to be manually run. Open a File Explorer window and navigate to the folder "C:\Program Files\MEI\Cashflow STS\USBDrivers\CF8000". Run the application CDM20600.exe. If you have loaded STS into a different folder to the default you should look for the folder "USBDrivers\CF8000" under that folder.

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:

Cashflow STS: Enter License Key		×
mei	cashflow™	A THE T
	Please enter your 48 digit License Key.	
+ + + + + +	Your License has not been set.	
		-
	OK Cancel Help	

License Window

Enter your License Key and click **OK** to continue.

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

If you have an existing 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 may be shown on start-up:

👻 Cashflow STS: Logo	n		×
and the section of the other			
mei	cash	nflov	Итм
Login ld :	admin		+++
Password : -	-		+
Remember my Log	in Id and Password a	and log me in auton	natically.
ОК	Cancel	Help	

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. From STS V7.03, this will be the default behaviour.

The administrator can enable/disable this facility from the User Manager screen.

Initial Installation

When the system is first installed the only user will be "**admin**" with an empty password. In order to change password, simply select the appropriate option from the user menu. This is important if more users are going to be added to the system.

New users can be added by selecting User Manager from the admin menu.

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 A	dministrator		×
Change Pa	issword fo	r 'admin'	+
Old Password :	****		
New Password :	yololololok		
Confirm Password	: .	++++	
ОК	Cancel	<u>H</u> elp	
	- + + +	4-4	7

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. The toolbar and status bar will not be shown by default. To enable, select the relevant menu item on the window menu.

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 supported MEI Product in a new Summary Window.

Open	Allows you to select a Configuration File and loads it into a new Configuration Summary Window.
M@i 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.
جچ Read	Reads the current Configuration from a connected Device into a new Configuration Summary Window.
♦ ح 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			
ſ	Vew	Ctrl+N	
	Open	Ctrl+O	
-	Save	Ctrl+S	
F	Print	Ctrl+P	
I	Print Preview	Ctrl+U	
ł	Read from Device	Ctrl+R	
3	Write to Device	Ctrl+W	ŝ
1	/erify		۲
i	Exit		

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
	T		Log Ch	gout ange Pas	sword	

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 <u>Logon</u> 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:

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.	Idle
Product Connection Indicates the number of products connected, or the Serial Number if there is exactly one connected.	No Products Connected 2 Products Connected
Handheld Connection Indicates the number of Handheld Devices Connected or displays "No Handhelds".	2 Handhelds
Local Date and Time	16/01/2004 14:43

Configuration

Using Configuration Controls, configurations can be created as:

- <u>New documents.</u>
- <u>Read</u> from an MEI Bill Acceptor, Coin Acceptor or Coin Changer as well as Conlux CV1000 and MCM5.
- <u>Opened</u> from a saved file.

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

iii 27359100331	[- • •
Cashflow SC Series Bill Acceptor (27359100331)	📕 Include	e/Change All
Description Read from Cashflow SC Series Bill Acceptor - Serial Number : 27359100331	Edit	
Modules 'Application Firmware' is '282940220' 'Variant (Bill-set) Firmware' is '490018250'	Edit	
Configuration Settings 'Model Number' is 'SC8304 ' 'Manufacturer's Code' is 'MEI ' 'BA Serial Number' is '27359100331 ' 'Production Date' is '040309 '	Edit More 🔻	
Bill Inhibit Settings 'USD 1 (CA)' is 'Enabled' 'USD 2 (CA)' is 'Enabled' 'USD 2 (CB)' is 'Enabled' 'USD 5 (CA)' is 'Enabled'	Edit More 🔻	
Bill-way Settings 'Accept 1 Bill-way' is 'False' 'Accept 2 Bill-ways' is 'False' 'Accept 4 Bill-ways' is 'True'	Edit	
Easitrax Settings 'Acceptor Asset Number' is '123456'	Edit	
Configuration Commands <none></none>	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.

Change Setting
C

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	1000
Canadian French	
American Spanish	
English UK	
German	
French	
Dutch	-

Extendable Lists

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

Channel Maps to Coin

Customer Token 1	•
Customer Token 1	
Customer Token 2	
Not Set	

🔽 Include/Change Setting

☑ 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 AC	
Cassette AD	
Cassette AE	
Cassette BA	
Cassette BB	
Cassette BC	*

☑ Include/Change Setting

After loading a channelset may become:

Tube Configuration

Build Standard

Cassette AC - US 1 Cent, US 1 Cent, US 5 Cent, US 10 Cent, US 25 Cent
Cassette AC - US 1 Cent, US 1 Cent, US 5 Cent, US 10 Cent, US 25 Cent
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 BB - US 10 Cent, US 5 Cent, US 10 Cent, US 25 Cent, US 5 Cent
Cassette BB - US 10 Cent, US 10 Cent, US 25 Cent, US 5 Cent
Cassette BB - US 10 Cent, US 1 Cent, US 10 Cent, US 25 Cent, US 5 Cent
Cassette BB - US 10 Cent, US 1 Cent, US 10 Cent, US 25 Cent, US 5 Cent
Cassette BB - US 10 Cent, US 1 Cent, US 10 Cent, US 5 Cent
Cassette BB - US 10 Cent, US 1 Cent, US 10 Cent, US 25 Cent, US 5 Cent
Cassette BB - Not Set, Not Set, Not Set, Not Set, Not Set
Cassette BB - Not Set, Not Set, Not Set, Not Set, Not Set
Cassette BB - Not Set, Not Set, Not Set, Not Set, Not Set
Cassette BB - Not Set, Not Set, Not Set, Not Set, Not Set
Cassette BB - Not Set, Not Set, Not Set, Not Set, Not Set
Cassette BB - Not Set, Not Set, Not Set, Not Set, Not Set
Cassette BB - Not Set, Not Set, Not Set, Not Set, Not Set
Cassette BB - Not Set, Not Set, Not Set, Not Set, Not Set
Cassette BB - Not Set, Not Set, Not Set, Not Set, Not Set
Cassette BB - Not Set, Not Set, Not Set, Not Set
Cassette BB - Not Set, Not Set, Not Set, Not Set, Not Set
Cassette BB - Not Set, Not Set, Not Set, Not Set, Not Set
Cassette BB - Not Set, Not Set, Not Set, Not Set, Not Set
Cassette BB - Not Set, Not Set, Not Set, Not Set, Not Set
Cassette BB - Not Set, Not Set, Not Set, Not Set, Not Set
Cassette BB - Not Set, Not Set, Not Set, Not Set
Cassette BB - Not Set, Not Set, Not Set, Not Set, Not Set
Cassette BB - Not Set, Not Set, Not Set, Not Set, Not Set
Cassette BB - Not Set, Not Set, Not Set, Not Set, Not Set
Cassette BB - 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, Upper Pins 794217002: CF9528 - 8 Way Separator, 1 Pin Top Entry, A Reject, Upper Pins	-	
794215003: CF9520 - No Separator, Front Entry, C Reject 794213004: CF9520 - No Separator, 1 Pin Too Entry, C Reject, Upper Pins		🔽 Include/Change Setting
794571002: CF9524 - 4 Way Separator, 1 Pin Top Éntry, A Reject, Upper Pins 794211005: CF9520 - No Separator, 1 Pin Top Entry, A Reject, Upper Pins	-	

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

100		🔽 Include/Change Setting
Free Not Set	20-27	
Invalid		

Selecting From a Firmware Control

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

Aodules	🔲 Include/Change All	
Firmware or Data Modules contained in, c	r to be downloaded into the Bill Acceptor	
Application Firmware	Load 🔲 Include/Change settings	
Variant (Bill-set) Firmware	Load 🔽 Include/Change settings	
	Load Include/Change settings	

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 Application Firmware	ocuments 🕨 🔹 🛃	Search Public Documents
Organize 🔻 New folder		i - 🗊 🔞
 Recent Places Libraries Documents 	Documents lib Public Documents Name	Drary Arrange by: Folder - Date modifi
My Documents Documents	Adobe PDF	3/29/2012 2
 Music Pictures Videos 	E	
▷ J♥ Computer		
D 🛍 Network	- · ·	•
File <u>n</u> ame:	×	Firmware Files (*.bin) Open Cancel

Channel sets

Channel sets are files containing the coin data that the MEI Coin products (CF9500, CF690, CF7000, CF8000 and EC6000) need to identify coins when they are dropped. STS V6.50 introduces a new way of managing channel sets. Previously, users had to place channel set files in one location for STS to be able to find them and only one revision of the channel set could be located in that folder at one time.

Now, with the introduction of STS V6.50, users have to import or add channel set files into the channel set repository for STS to register them. But the files can reside anywhere in the file system and more than one revision can be stored at once. Users can also quickly identify the revision of channel set and also the revision of the channel set file they have available. In order to support this functionality, a few new fields have been added to the channel set section of the configuration summary (as shown below).

👼 Edit Primary Channelset				×
Primary Channelset		Options	🔲 <u>I</u> nclude/Change A	ai
Settings for Primary Channel	set			-
Channel Set Description		🗌 🗖 Incl	ude/Change settings	
Part Number]		
Current Revision				
Latest Revision]		
Download Revision	V	🗌 🗆 Clea	ar/Download Latest Data	
File Revision				
File Unique Identifier]		
Changes From Previous		🗌 🗖 Incl	ude/Change settings	
Trial Channelset		🗌 🗖 Incl	ude/Change settings	
Acceptance Currency		🗌 🗖 Incl	ude/Change settings	
Payout Currency	•	🗌 🗖 Incl	ude/Change settings	
Coin Acceptance Mode		🗌 🗖 Incl	ude/Change settings	
MDB Country Code (hex)		🗌 🗖 Incl	ude/Change settings	
Currencu 1	[l 🗆 Ind	udo/Chango optingo	-
			<u>O</u> K <u>H</u> el	lp

The new fields are:

File Revision:	Revision of the channel set file. This is different from the channel set revision and is incremented every time one or more channel set configuration settings are changed within the file for the same channel set revision.
File Unique Identifier:	This is a read only field that uniquely identifies the file. This unique identifier is also recorded in a Database at MEI so that complete traceability is possible for the file.
Changes from Previous:	This field will describe the changes from the previous revision of channel set.
Trial Channelset:	This identifies whether the channel set is a full release or is a trial or test channel set.

In order to load a new channel set file into STS, users have to click the *Options* button and then *Load from file* as before.



The following dialog is then displayed.

Channelset Selection	
Load Channelset	
	Channel Set Part Number
	I Channel Set Revision
	 File Revision
	File Description
	File Unique ID
Show All Revisions	
Browse	<u>C</u> ancel <u>H</u> elp

Users can then click the browse button to locate the channel set file they wish to download to the product. At this point it is also added to the repository list as shown below.

Channelset Selection	
Load Channelset	
CF7000 - ARS - 795112087 - 11 - V01.xc1 CF7000 - AUD - 795115114 - 10 - V01.xc1 CF7000 - GBP - EUR - 717482934 - 22 - V01.xc1 CF7000 - CLP - 795111111 - 10 - V01.xc1	Channel Set Part Number 717482934 Channel Set Revision -1 File Revision 0 File Description CF7000 GBP/EUR Pound Sterling and Euro Channels File Unique ID
🗖 Show All Revisions	41157461-BC55-4C10-B278-8B9B032F5D33
Browse	<u>C</u> ancel <u>H</u> elp

When checked, the *Show All revisions* check box will display all revisions of a particular channel set not only the latest.

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:

3 27359100331	[- •
Cashflow SC Series Bill Acceptor (27359100331)	📕 Include	e/Change All
Description Read from Cashflow SC Series Bill Acceptor - Serial Number : 27359100331	Edit	
Modules 'Application Firmware' is '282940220' 'Variant (Bill-set) Firmware' is '490018250'	Edit	D
Configuration Settings 'Model Number' is 'SC8304 ' 'Manufacturer's Code' is 'MEI ' 'BA Serial Number' is '27359100331 ' 'Production Date' is '040309 '	Edit More 🔻	
Bill Inhibit Settings 'USD 1 (CA)' is 'Enabled' 'USD 2 (CA)' is 'Enabled' 'USD 2 (CB)' is 'Enabled' 'USD 5 (CA)' is 'Enabled'	Edit More 🔻	
Bill-way Settings 'Accept 1 Bill-way' is 'False' 'Accept 2 Bill-ways' is 'False' 'Accept 4 Bill-ways' is 'True'	Edit	
Easitrax Settings 'Acceptor Asset Number' is '123456'	Edit	-
Configuration Commands <none></none>	Edit	2

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.



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.
Serial Number: 123456789	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	
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 Image: Description Image: Description Image: Description Image: Description Image: Description Image: Description New Open Save Print Read Write Handhelds Users	
📓 3245Y100107	
Cashflow 9500 Coin Acceptor (3245Y100107)	🔲 Include/Chan
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'	Edit
"Serial Emulation Mode" is 'Base I (Default)"	More 🔽
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 🔫
Didle 😤 2 Products Connected 📄 No Handhelds 01/03	3/2005 15:20

Main Window

Configuration

Configuration Icons reflect the products connected and licensed:

◆≧ Read	Reads the current Configuration from a connected CF9500.
→≧ Write	Writes the selected Configuration to a connected CF9500.
▶ [=] Write	Writes the selected Configuration to a connected Cashflow Programming Module (HII).



Main Window - CF7000/CF7906

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	
Image: New Open Save Print Image: New Open Image: New Open	
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

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).

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

Main Window – EC6000/EC6970

Cashflow STS V4.50 introduced support for the EC6000 Coin Changer. After reading from an EC6000 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 V4.50 - New User 2 (NewUser2) - [4968Y102289]	
📓 File Tools User Admin Window Help	_ 8 ×
Image: New Open Save Print Image: New Open Image: New Open	
EC6000 Coin Changer (4968Y102289)	📕 Include/Change All
Description Read from EC6000 Coin Changer - Serial Number : 4968Y102289	Edit
General Configuration 'Application Firmware' is 'V1.00D ' 'Serial Number' is '4968Y102289' 'Signature Version' is '55' 'Part Number' is '796236010 '	Edit
Channelset EC6000 - EU 'Part Number' is '717487945' 'Current Revision' is '16' Latest Revision available is '16'	Edit More 💌
Token Configuration 'Token Name' is '-' 'Token Enable' is 'Inhibited' 'Token Value' is 'Not Used' 'Token Type' is 'Vend Token'	Edit
Payout Configuration 'Tube Configuration' is 'Cassette AA - 5c, 10c, 50c, 20c' 'Tube Fill Levels' is 'Fill to Float/Par' 'Par/float Stule' is 'Par to Level'	Edit
Ulde Serial Number: 4968Y102289	2/14/2007 2:39 PM

Configuration

Configuration Icons reflect the products connected and licensed:

Read	Reads the current Configuration from a connected EC6000.
→ Write	Writes the selected Configuration to a connected EC6000.
▶ Write	Writes the selected Configuration to a connected Cashflow Programming Module (HII).

Serial Number: 4968Y102289	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		_ 8 ×
Image: New Open Save Print Image: New Open Image: New Open	Inostics	
Cashflow 690 Coin Changer (3553GD10452)	📕 <u>I</u> nclude/C	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) 'Display Language' is 'English' - (6,11,1)	Edit	
Primary Channelset AS CF690 'Part Number' is '717488811 10' - {23,1,1} Latest Revision available is '10' 'Coin Acceptance Mode' is 'Currency 1' - {3,2,1}	Edit 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 MDRMDR Level' is 'Level 3 All Features (as per C'E560)' - (17.1.1)	Edit	×
🚺 Idle Serial Number: 3553GD10452 💾 No Handhelds	3/7/2006 3	:30 PM

Configuration

Configuration Icons reflect the products connected and licensed:

ead	Reads the current Configuration from a connected CF690.
➡ ₩	Writes the selected Configuration to a connected CF690.
◆ [•] Write	Writes the selected Configuration to a connected Cashflow Programming Module (HII).

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

Main Window – CF8000

After reading from a CF8000 Series Coin Changer the Main Window will look as follows:

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

MELCashflow STS V7.00 - Test2 (test2) - [WWSYCC12345] File Tools Reports User Admin Window Help		_ D ×
Image: Save Print Image: Save Print Image: Save Image: Save	Users	
Cashflow 8000 Coin Changer (WWSYCC12345)	🔲 <u>I</u> nclud	e/Change All
Description Read from Cashflow 8000 Coin Changer - Serial Number : WWSYCC12345	Edit	
General Configuration 'Application Firmware' is 'CF8 V0.03 ' 'Serial Number' is 'WWSYCC12345' - {2,1,1} 'Signature Version' is '55' - {254,20,1}	Edit	
'Part Number' is '793441005' - {1,4,1}	More 🔻	
Primary Channelset CF7000 wide - EU 'Part Number' is '717487945' - {26,1,1} 'Current Revision' is '20' - {26,2,1} 'Latest Installed Revision' is '20'	Edit	
Token Channelset Token Channelset for the Cashflow 8000 Coin Changer Part Number' is '717482853' - {26,1,2} 'Current Revision' is '21' - {26,2,2} Tokens	Edit More 🔻	
Payout Configuration 'Tube Configuration' is 'AA' - {5,2,1} 'Tube Fill Levels' is 'Fill to Float/Par' - {5,3,1} 'Par/float Style' is 'Par to Level' - {6,23,1} 'Par/float Value' is '5000' - {6,24,1}	Edit More 💌	
Interface Settings 'Master Coin Scaling Factor' is 'Calculate Automatically' - {20,1,1} Interfaces MDPLMDPL	Edit	•
1) Idle Serial Number: WWSYCC12345 No Handhelds	6/28/2010	10:18 AM

Configuration

Configuration Icons reflect the products connected and licensed:

◆ <mark>■</mark> Read	Reads the current Configuration from a connected CF8000.
◆ ₩rite	Writes the selected Configuration to a connected CF8000.
▶ [] Write	Writes the selected Configuration to a connected handheld device (Flash Drive).

Serial Number: WWSYCC12345	Shows the Serial Number of the connected Coin Changer if there is only one connected.
----------------------------	---

Main Window – VAM

After reading from a Vending Audit Module the Main Window will look as follows:

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

MEI Cashflow STS V7.00 - Test2	(test2) - [WW5YCC12345] n Window Help		
New Open Save	Print + ♣ → ♣ Image: Base of the second sec) Install	S S IIII Users
Cashflow Vending A	udit Module (WWSYCC12345)	📕 <u>I</u> nclude	/Change All
Description Read from Cashflow Vending	z Audit Module - Serial Number : WWSYCC12345	Edit	
General Configuration 'Application Firmware' is 'CF8 'Serial Number' is 'WWSYCC 'Part Number' is '793441005' 'Product Description' is 'CF790	ON V0.03 ' 12345' 00 EU MDB AA'	Edit More 🔻	
Audit 'Printer Language' is 'English' 'Audit Report Style' is 'Interims 'VMC Audit Delay' is '30' 'Audit Retained Timeout' is '5'	ĩ	Edit More 🔻	
Audit Fields 'Machine Location' is 'WWSY 'Location Within Site' is 'WWS 'Unique ID' is 'WWSYCC123 'Machine Type' is 'WWSYCC	CC12345' YCC12345' 45' 12345'	Edit More 🔻	
File Merge Settings 'Audit Merge Table' is 'Auto' 'Audit Module AM Group' is 'I 'Bill Acceptor BA Group' is 'N	None' ione'	Edit	
'Cash CA Group' is 'None'		More 👻	
i) Idle	🛱 Serial Number: WWSYCC1234! 📳 No Handhelds	6/28/2010	3:13 PM

Configuration

Configuration Icons reflect the products connected and licensed:

◆ ∰ Read	Reads the current Configuration from a connected CF8000.
◆ <mark>≞</mark> Write	Writes the selected Configuration to a connected CF8000.
♦ Write	Writes the selected Configuration to a connected handheld device (Flash Drive).

Serial Number: WWSYCC1234	Shows the Serial Number of the connected Coin Changer if there is only one connected.
---------------------------	---

Main Window – Conlux MCM5

When writing to a Conlux MCM5 the Main Window will look as follows::

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

		×
Image: New Open Save Print Image: New Open Image: New Open	Install	S C IIIII Users
Conlux MCM5 Coin Changer (Conlux MCM5 Coin Changer*)	🗾 <u>I</u> nclude	/Change All
Description Conlux MCM5 Coin Changer	Edit	
General Configuration Load 'Application Firmware' - 'MCMV20'	Edit	
Tube Float Levels	Edit	and the second s
Set 'Tube 1 Low Float Level' to '10' - {0,0,0} Set 'Tube 2 Low Float Level' to '20' - {0,0,0} Set 'Tube 3 Low Float Level' to '30' - {0,0,0} Set 'Tube 4 Low Float Level' to '40' - {0,0,0} Set 'Tube 5 Low Float Level' to '50' - {0,0,0} Set 'Tube 2 High Float Level' to '70' - {0,0,0} Set 'Tube 3 High Float Level' to '80' - {0,0,0} Set 'Tube 4 High Float Level' to '90' - {0,0,0} Set 'Tube 5 High Float Level' to '100' - {0,0,0}	Less 🔺	
Idle Serial Number: Not Set 💌 No Handhelds	11/18/2011	2:19 PM

Configuration

Configuration Icons reflect the products connected and licensed:

e iii Read	Reads the current Configuration (Float levels) from a connected MCM5.
Write	Writes the selected Configuration (Float levels) to a connected MCM5.
→ Write	Writes the selected Configuration to a connected handheld device (CPM Lite).

Serial Number: Not Set	Shows the Serial Number of the connected Coin Changer if there is only one connected.
------------------------	---

Main Window – Series 2000 Bill Validator

After reading from a Series 2000 Bill Validator, the Main Window will look as follows:

IMPORTANT: The options available to you will depend on your license and user permissions:

MEI Cashflow STS V7.03 - Administrator (ac File Tools Reports User Administrator Window	Imin) - [029880604203 Help	a) ()		-D× -B×
New Open Save Print Series 2000 Bill Validator (0	Read Write 29880604203	Handhelds Audit	CRC Diagnostics Insta	Users Change All
Description Read from VN2000 Bill Acceptor - Seri	al Number : 029880	0604203	Edit	
General Configuration 'Firmware' is '253us120'			Edit	
BillConfiguration 'Enables' is '5 & 1' 'EE Enables' is 'TKN & 100 & 50' 'Security' is '0' 'EE Security' is 'TKN & 100 & 50 & 20 'DIP Switches' is '3 & 5 & 7'	& 10 & 5 & 2'		Edit	
RAM Configuration 'Credit Line' is 'Use Harness' 'Pulse Pattern' is '35ms/300ms' 'Way Accept' is 'DU/SU/DD/SD' 'Interface Mode' is 'Vending' 'Pulses/Credit Unit' is '1'			Less 🔺	
EE Configuration 'EE Credit Line' is 'Use Harness' 'EE Pulse Pattern' is '30ms/50ms' 'EE Way Accept' is 'DU/SU/DD/SD' 'EE Interface Mode' is 'Vending' 'EE Pulses/Credit Unit' is '1' 'EE Stacker' is 'Un'			Edit	
LE Stacket is Op	Number: 029880604203	No Handhelds	Less ▲	7:42 PM

Configuration

Configuration Icons reflect the products connected and licensed:

Read	Reads the current Configuration from a connected Series 2000 Bill validator.
• Write	Writes the selected Configuration to a connected Series 2000 Bill validator.
→ Write	Writes the selected Configuration to a connected MEI Conlux Programming Module. Only device firmware can be loaded, configuration items are ignored.



When creating a new configuration you will be prompted to select the ".cab" file for which you wish to create a file for.

Serial Number 029880604203 Shows the Serial Number of the connected Series 2000 if there is only one connected.

Main Window – VNR

After reading from a Vending Note Recycler, the main window will look as follows:

IMPORTANT: The options available to you will depend on your license and user permissions:

MEI Cashflow STS ¥7.03 - Adminis	trator (admin) - [32990200012] Window Heln	_ 미 ×
New Open Save P	rint Read Write Handhelds Audit CRC	Diagnostics Install Users
Vending Note Recycl	ler (32990200012)	📕 <u>I</u> nclude/Change All
Description Read from Vending Note Recyc	cler - Serial Number : 32990200012	Edit
Recycler General Co 'Firmware' is 'RXA0116'	nfiguration	Edit
Recycler Configuratio 'Bill Capacity' is '19' 'Interface' is 'L2' 'Par Level (Num Bills)' is '0' 'Accept Inhibit' is 'Yes' 'Recycled Bill' is 'Bill 1' 'Postion' is '0' 'End Postion' is '96467' 'Recycler Bills' is '0'	n	Edit
'Bill Lock' is '0' 'Cassette' is '0'		Less
Validator		Edit
Ceneral Configuration	'Firmware' is '275us125'	
BillConfiguration	'Enables' is '0' 'EE Enables' is 'TKN & 20 & 10 & 5 & 2 & 1' 'Security' is '0' 'EE Security' is 'TKN & 20 & 10 & 5 & 2 & 1' 'DIP Switches' is '3'	
RAM Configuration	'Credit Line' is 'Nill' 'Pulse Pattern' is '50ms/50ms' 'Way Accept' is 'DU/SU/DD/SD' 'Interface Mode' is 'Vending' 'Pulses/Credit Unit' is '4'	
EE Configuration	'EE Credit Line' is 'Use Harness' 'EE Pulse Pattern' is 'Goms/300ms' 'EE Way Accept' is 'DU' 'EE Interface Mode' is 'Vending' 'EE Pulses/Credit Unit' is '7' 'EE Stacker' is 'Down'	Less 🔺
i Idle	🕌 Serial Number: 32990200012 🦻 No Handhelds	6/14/2012 7:43 PM

Configuration

Configuration Icons reflect the products connected and licensed:

Read	Reads the current Configuration from a connected Vending Note Recycler
Write	Writes the selected Configuration to a connected Vending Note Recycler.

→ Write	Writes the selected Configuration to a connected MEI Conlux Programming Module . Only device firmware can be loaded, configuration items are ignored.	
New	When creating a new configuration you will be prompted to select the ".cab" file for which you wish to create a file for.	
Status shares the needed as a set of		

Status shows the product connected:

Serial Number: 32990200012	Shows the Serial Number of the connected Vending Note Recycler if there is only one connected.
----------------------------	--

IMPORTANT NOTE:

When the configuration is read from a VNR device the device it is left in Validator Mode (AP shown on device display). You need to cycle the power to revert the device to its normal operating condition. Failing to do so will result in an error message being displayed if another operation is requested.

! MEI ERROR		
	Unit is in wrong mode Recyler Validator Mode. Cycle power to reset	OK
●		<u>D</u> etails>>

Main Window – CV1000 Bill Validator

After reading from a CV1000 Bill Validator, the main window will look as follows:

IMPORTANT: The options available to you will depend on your license and user permissions:

← MEI Cashflow STS V7.03 - Administrator (admin) - [32990200012]						
New Open Save	Print Read Write Handhelds Audit CRC	Diagnostics	Users			
Vending Note Recy	Vending Note Recycler (32990200012)					
Description Read from Vending Note Rec	Description Read from Vending Note Recycler - Serial Number : 32990200012					
Recycler General C 'Firmware' is 'RXA0116'	Recycler General Configuration					
Recycler Configurat 'Bill Capacity' is '19' 'Interface' is 'L2' 'Par Level (Num Bills)' is '0' 'Accept Inhibit' is 'Yes' 'Recycled Bill' is 'Bill 1' 'Postion' is '0' 'End Postion' is '96467' 'Recycler Bills' is '0' 'Bill Lock' is '0' Validator Validator Validator BillConfiguration BillConfiguration	n Firmware' is '275us125' 'Enables' is '0' 'EE Enables' is 'TKN & 20 & 10 & 5 & 2 & 1' 'Security' is '0' 'EE Security' is 'TKN & 20 & 10 & 5 & 2 & 1' 'DIP Switches' is '3' 'Credit Line' is 'Nill'	Edit				
KAIVI Configuration Creat Line is 19th 'Pulse Pattern' is '50ms/50ms' 'Way Accept' is 'DU/SU/DD/SD' 'Interface Mode' is 'Vending' 'Pulses/Credit Unit' is '4'						
EE Configuration	'EE Credit Line' is 'Use Harness' 'EE Pulse Pattern' is '60ms/300ms' 'EE Way Accept' is 'DU' 'EE Interface Mode' is 'Vending' 'EE Pulses/Credit Unit' is '7' 'EE Stacker' is 'Down'	Less 🔺				
J Idle	🧏 Serial Number: 32990200012 🧧 No Handhelds	6/14/2012	7:43 PM			

Configuration

Configuration Icons reflect the products connected and licensed:



Reads the current Configuration from a connected CV1000 Bill Validator

Write	Writes the selected Configuration to a connected CV1000 Bill Validator.
→ Write	Writes the selected Configuration to a connected MEI Conlux Programming Module . Only device firmware can be loaded, configuration items are ignored.
WP New	When creating a new configuration you will be prompted to select the ".cab" file for which you wish to create a file for.

Serial Number: 005290000003 Shows there is	he Serial Number of the connected CV1000 Bill Validator if only one connected.
--	--
Main Window – CX Bill Validator

After reading from a CX Bill Validator, the main window will look as follows:

IMPORTANT: The options available to you will depend on your license and user permissions:

HEI Cashflow STS V7.20 - Administrator (admin) - [32KF48002906]		- 0 X
📓 File Tools Reports User Admin Window Help		_ 8 ×
Image: New Open Open Save Print Read Image: New Open Image: New Op	Users Co	nvert
MEI CX Bill Validator (32KF48002906)	Include.	/Change All
Description Read from MEI CX Bill Validator - Serial Number : 32KF48002906	Edit	
Modules 'Sensor Board Firmware' is 'CXB2S0000-01.00' 'Control Firmware' is 'CXB2M0080-01.00' 'Configuration Firmware' is 'CXB2CCA80-01.00' 'Validation Firmware' is 'CXB2VCA00-01.00'	Edit More 🔻	Ð
Production Settings 'Model Number' is 'CXB-11x4 ' 'Manufacturer's Code' is 'CCD' 'BA Serial Number' is '32KF48002906' 'Production Date' is '2015/11/30'	Edit	
Configuration Settings 'Stacker Configuration' is 'Up Stacker' 'User Interface' is 'MDB' 'Voucher Mode' is 'Disable' 'MDB Decimal Place' is '2'	E dit	
Bill Inhibit Settings 'CAN 5 (CA)' is 'Disabled' 'CAN 5 (CB)' is 'Enabled' 'CAN 5 (CC)' is 'Enabled' 'CAN 10 (CA)' is 'Disabled'	Edit	
Bill Security Settings 'CAN 5 (CA)' is 'High Security' 'CAN 5 (CB)' is 'High Security' 'CAN 5 (CC)' is 'High Security' 'CAN 10 (CA)' is 'High Security'	Edit More 🔻	
Vouchers Inhibit Settings 'Free Vend' is 'Disable'	Edit	
Configuration Commands <none></none>	Edit	
Options 'Stack jammed bill' is 'False' 'Tropical Stacker algorithm' is 'False' 'Hold bill' is 'False'	Edit	
Vide Serial Number: 32KF48002906	6/6/2016	10:15 AM

Configuration

Configuration Icons reflect the products connected and licensed:



Status shows the product connected:

Serial Number: 32KF48002906 Shows the Serial Number of the connected CX Bill Validator if there is only one connected.
--

To download firmware go to "Modules/Edit" of Configuration page select "Mixed Firmware" checkbox. Then in open dialog pick cfs file with firmware. The file includes several firmware modules.

When loaded, the following dialog will be displayed confirming the firmware modules that are included.

MEI N	MESSAGE	
A	CFS file content: Control Firmware - CXB2M0080-03.22 Configuration Firmware - CXB2CMX80-01.00	ОК
•	Sensor Board - CXB2S0000-03.03 Validation Firmware - CXB2VMX00-01.03	<u>D</u> etails >>

Final step is to confirm selection with Mixed Firmware type and click ok.

Select File Type	×
Please choose fi you have just se	irmware type for the file lected
Mixed Firmware	_
	OK <u>H</u> elp

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) :	+
<u>O</u> K <u>C</u> ancel	<u>H</u> elp

Handhelds

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

The Handheld Devices window will be displayed:

🗧 Handhelds					- D ×
	Handhel	d Devices			
🌾 Group One	General Details	Advanced Settings			
Trevor Key		USB Flash D)evice		
Test 4	Name:	Trevor Key			<u>S</u> et
· ·	Serial Number:	806111423130			
	Select Group:	Group One		•	New
	Files		Cine	Turce	
		LC	240.2 KB	Applicatio	on FW
		ХT	99 Bytes	Configura	ation
		ד∨ד 7ו	nevo	A49	
	Download Fil	e <u>D</u> elete File		De	lete <u>A</u> ll
		Configure USB Drive		<u>H</u> elp	Close

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.

More information pertaining to the PPM Advance can be found in the Documentation folder on the CD as well as installed with STS on the local PC.

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 with no file	Connected	Connected
Connected		with files	and Busy

D	CDM	(TIII)
For	CPM	(HII)
		()



For Flash Drive



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:



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:





General Handheld Details

General Details	Advanced Set	tings		
Cashfle	ow Program	mming M	odule (US	B)
Name:	Chris		<u></u>	et
Serial Number:	2933Y660	0526		
Select Group:	Group One	в	• <u>N</u>	ew
Files				
Name		Size	Туре	
280794	111_FLASH	51.9 KB	Variant FW	

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

Name

Name:	James	<u>S</u> et
	,	

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



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

With the release of V7.07, files are now displayed on a separate tab. This is because many files can exist on a PPM Advance and the old window did not have enough space to show all potential files. When a PPM Advance is connected or selected in the handheld tree view the files tab will look as follows:

	PPM Adva	Ince	
Name	Label	Size	Туре
SC			
+ SC v1.06 boot 2 fw cfg test	EBDS AUD	269.1 KB	Configuration
282757221_CRC(8BAF)_SC66	Netplex	239.4 KB	Application FW
+ SC v1.06 boot USD var 1 fw cf	USD Only	119.4 KB	Configuration
SC Advance			
 SC Advance Bill Acceptor 	EBDS USD	548.9 KB	Configuration
286108320_6EB4_APP	EBDS USD	409.2 KB	Application Fw
510086221_SCN66_U	EBDS USD	139.6 KB	Variant FW
Configuration	EBDS LISD	40 Butes	Configuration

Files are grouped depending on what product they are configured for. Each configuration file may or may not have an associated label which is also displayed. This is created if required when the configuration is saved. Where the + sign is displayed, this indicates that the displayed configuration file contains at least one other file. Simply click the + to expand the selection and show all containing files. Click the - sign to collapse the view.

If the connected/selected handheld is a CPM (USB) or CPM (HII) the files tab will look as follows:

General Details	Files	Advanced Settings		
		Cashflow Pro	grammin	g Module (USB)
Name			Size	Туре
4919852	21_SC	66_USD_SHORT_FLA	119.3 KB	Variant FW
enei Configur	ation Se	ettings	44 Bytes	Configuration

Files currently loaded onto a Handheld are displayed whether it is connected or not.

The icons, where applicable, for CPM (USB) are as follows

Bill Acceptor Bootloader Firmware (not all products)		Bill Acceptor Application Firmware		Bill Acceptor Variant Firmware		Bill Acceptor Configuration Settings
---	--	--	--	--------------------------------------	--	--

The icon for CPM (HII) is as follows



When connected, click on **Download File** to locate files to download.

When writing files to the PPM Advance device, the user will be prompted to add a label to the file(s) being downloaded. If the dialog is left blank, then no label is added and the filename is shown on the device. If a label is added then the label will be shown in the files dialog on STS or on the PPM Advance device itself.

When copying CX Bill Acceptor firmware files to the USB flash device, it is important to note that the firmware filename has to contain the letters CX. When loaded successfully, the following message will be displayed:



Note: When the configured flash drive is connected to the CX Bill Validator, the button on the top of the bill validator has to be pressed in order to initiate the firmware download process.

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) or PPM Advance.
*.CFS	CX Bill Validator Firmware	Allows you to download CX Bill Acceptor firmware on to a USB Flash Device.

The following file formats are accepted:

Click on **Delete File** to delete the currently selected file.

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

Advanced Handheld Settings (CPM)

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

General Details Files Advanced Settings	s	
Cashflow F	Programming Modul	e (USB)
Power Up Count:	4	<u>R</u> eset Count
Error Count:		<u>V</u> iew Errors
Device Date	5/1/2014 👻	Set Date
Handheld Firmware Versions	· · · · · ·	
Application V2.02 Primary Bootloader V1.00 Secondary Bootloader V1.00 USB Slave Module V1.00 USB Host Module V1.01)	<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

Error Count: 0 View Errors

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.

Device Date/Credits

Device Date

5 / 1 /2014 👻 Set Date

Allows the user to set the device date on the SC Advance Bill Acceptor. This item is not displayed for CPM (HII) devices as it is not applicable. Instead, CPM (HII) users will see a credits value.

Cashflow Programming Module (HII)

Power Up Count:	0	<u>R</u> eset Count
Error Count:	0	View Errors
Credits:	100	

This displays the number of credits present on the CPM (HII).

Firmware Versions

Handheld Firmware Versions	
Application V1.0 Bootloader V1.0	
USB Slave V1.0 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", "*.cfa" or "*.cfh" firmware file which can be downloaded to the Handheld.

On the PPM Advance, this upgrade will not be possible if the associated language files for the version being downloaded are not available.

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	
🔲 Save Raw Data	

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.

Set Save Raw Audit to make the handheld save all of the Engineering data as well as the customer data.

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

Menu Settings

Menu Settings

This applies to the PPM Advance handheld only. When selected, the PPM Advance will display the basic menu options only.

Advanced Tools

Advanced Tools	
<u>F</u> ormat Filesystem	U <u>n</u> -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.

<u>Format Filesystem</u> formats and checks the file system of a connected Handheld device. On the PPM Advance device, this also downloads the applicable language files for the firmware version of the connected 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:



USB Flash Drive Support

.A USB flash drive can be used to

- Update CF8000, CX Bill Validator and VAM.
- Collect Audit data from CF8000 and VAM.

To use a Flash Drive it must contain an MEI file structure on the device. This file structure can be created from the handheld management form or by plugging the device into a CF8000 or VAM product.

Creating an MEI Flash Drive from the handheld management form:

- 1. Plug Flash Drive into available USB connector on the PC.
- 2. In STS open the handheld management form.
- 3. Click the "Configure USB Drive" button. The Configure MEI Form is displayed.

Configure MEI De	vice
Select a Removab as a MEI Device	le Disk to Configure
Removable Disk (I	:]
Cancel	Continue

4. Select the drive letter for the device to be added.

The selected Flash Drive is added to the list of handhelds. By default the Name is the serial number read from the Flash Drive. This can be changed by typing a new name in the text box and clicking the "Set" button.

Advanced Handheld Settings (Flash Drive)

The advanced settings tab for Flash Drives can be used to configure the use of the Flash Drive when it is connected to a CF8000/CX Bill Validator or VAM unit.

General Details Ac	dvanced Settings			
	US	B Flash Devid	ce	
Settings				
Audit Mode		Standard Interim	s Reset	•
VMC Password	ł	0000000		<u>S</u> et
ID204				<u>S</u> et
Update Mode Service Mo Configuration	ode on	Diagnos Basic Exter	tic Mode c nded	
Advanced Tools	Handheld		<u>F</u> ormat F	ilesystem

Audit Mode

This specifies the type of audit performed when the flash Drive is connected to a CF8000 or VAM.

- Disabled Do not perform product audit.
- Standard Interims Reset Performs a standard audit and clears the interim counters on the product.
- Standard Interims Not reset Performs a standard audit and does not reset the interim counters on the product.
- Extended Interims Reset Performs an extended audit and clears the interim counters on the product.

VMC Password

Used to specify the password required to perform the audit, if one is set.

ID 204

This is used to specify the data to be used in the ID204 field of the audit. The other fields are set as follows.

- ID201 Serial number of the Flash Drive
- ID202 "MEI Flash Drive 01"
- ID205 Flash Drive name.

Update Mode -

- Service Mode Function performed is controlled from the CF8000 menu.
- Configuration Update the product configuration.
- Application Update the product application. This must be checked for CX firmware files.

Diagnostic Mode-

- Basic Collect basic diagnostic data.
- Extended Collect extended diagnostic data.

Advanced handheld settings – Conlux Programming Module (CPM Lite)

The second tab is slightly different when a CPM lite is connected, as shown below.

🖥 Handhelds						
Handheld Devices						
Group One	General Details	Advanced Settings	gramming Mo	odule		
	Application	irmware Versions in V1.02 ir V1.00		<u>Upgrade</u>		
	Advanced T	ools				
	U <u>n</u> -Regis	ter Handheld		Eormat Filesystem		
		Configure US	SB Drive	Help Close		

Firmware Versions

This displays the current firmware versions on the Handheld device.

Separate Firmware blocks exist for Application and Bootloader.

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

Advanced Tools

Advanced Tools	
<u>F</u> ormat Filesystem	U <u>n</u> -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.

Upgrade Handheld

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

🚹 Upgrade Handheld		×		
Connected Handheld 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{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

Cashflow[™] 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:



Audit



The Audit functionality is accessed by clicking the Audit button on the Main Window.

Depending on the license you have, either the required audit form will be automatically loaded or you will be required to select the required audit type.

]
]

	Bill Acceptor Audit
1	Audit File Parser

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 Acce	ptor Audit Data	1	- 12 O	A second re-
Audit Details Number of Audits	Audit Date / Time	14-May-10 16:18:39		
Application Part Number 282063150	Variant Part number	490325234	Unit Serial Number	252200998
Summary General QP Measures Failures Bill Au	dit			
Calculated Details				
Number of Inserted Notes	5	Number of Inserted Barcodes		0
Number of Rejected Notes	0	Number of Rejected Barcodes		0
Number of Accepted Notes	5	Number of Accepted Barcodes		0
Acceptor Note Acceptance Rate	100%	Acceptor Barcode Acceptance	Rate	100%
r Main Summarv				
Total Docs Reached Escrow Position	5	Total Value of Notes Stacked		90
Total Documents Stacked	5	QP Rate		1
Host/Bill Acceptor Acceptance Rate	100%			
1				
Bead from Device	tabase		17 31	and the second second
Betrieve Audit	ad Audit			<u>H</u> elp
Heset Audit Sa	re 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.

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.

Summary General QP Measures F	Failures Bill Audi	t]	
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.

Summary General	QP Measures Fa	ilures Bill Audit					
Bill Name	Notes Recogni	Notes Validated	Notes Stacked	% of Notes Sta	Total Value	% of Takings	Bill Acceptor Ac.
USD 1 (CA)	147	128	116	53.70	116	2.89	87.07
USD 5 (CA)	0	0	0	0	0	0	100
USD 5 (DA)	0	0	0	0	0	0	100
USD 5 (FA)	0	0	0	0	0	0	100
USD 10 (DA)	16	16	15	6.94	150	3.74	100
USD 10 (EA)	2	2	2	0.93	20	0.50	100
USD 10 (FA)	0	0	0	0	0	0	100
USD 20 (CA)	0	0	0	0	0	0	100
USD 20 (DA)	19	17	14	6.48	280	6.97	89.47
USD 20 (EA)	0	0	0	0	0	0	100
USD 50 (CA)	0	0	0	0	0	0	100
USD 50 (DA)	75	73	69	31.94	3450	85.91	97.33
USD 50 (DB)	0	0	0	0	0	0	100
USD 50 (FA)	0	0	0	0	0	0	100
USD 100 (CA)	0	0	0	0	0	0	100
USD 100 (DA)	0	0	0	0	0	0	100
USD 100 (DB)	0	0	0	0	0	0	100
USD 100 (DC)	0	0	0	0	0	0	100
Bill 19	0	0	0	0	0	0	100
Bill 20	0	0	0	0	0	0	100
Bill 21	0	0	0	0	0	0	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.

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:

Select Audit(s)				×
Se	le	ct Audit(s)		
Select <u>Recent</u> Audits before date:		Unit Serial Nu	Application Nu	Audit Date & Time
June 2010 ▶ Mon Tue Wed Thu Fri Sat Sun 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 20 1 2 2 4 5 6		252200998	282063150	10Jun-10 16:32:21
28 23 30 1 2 3 4 5 6 7 8 9 10 11 ◯ Today: 6/15/2010				
Select Unit for Historic Audits:				
Load		Cancel	н	elp

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
012004001208	0171070311.32.20

When "Recent" or "Historical" selection is 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> 	Unit Serial Nu 55566677789	Application Nu 286108140	Audit Date & Time 17-Nov-11 16:08:56
▲ November 2011 ▲ Mon Tue Wed Thu Fri Sat Sun 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 11 ▲ 5 6 7 8 9 10 11 ▲ 5 6 7 8 9 10 11 ▲ 5 6 7 8 9 10 11 ▲ 5 6 7 8 9 10 11 ▲ 5 6 7 8 9 10 11 ▲ 5 <td< th=""><td></td><td>Load Audit Export Audit Export Audit to Exc Delete Audit</td><td>:el</td></td<>		Load Audit Export Audit Export Audit to Exc Delete Audit	:el
Excel Export Use SC BNF Audit Names Export to Excel	Load	Cancel	<u>H</u> elp

V7.02 also introduces the capability to export the audit in excel format. This can be done by right-clicking on the file and selecting Export Audit to Excel or by clicking the button in the bottom left of the dialog box. The option "Use SC BNF Audit Name" should be checked if the unit that was audited had a Bunch Note Feeder (BNF) fitted.

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(s)			? ×
Look in: 🔂 Support Compo	nent Library (SCL)	+ 🗈 💣 🎟-	
My Computer	endency af af		
My Network P Files of type:	''123456789 (3).xaf'' ''123456789 (2 XML Audit Files (*.xaf)	2).xaf"	<u>O</u> pen Cancel

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.

Vending Bill Validator Audit

When Vending Bill Validator audits are read from a device or from the database the Summary screen below is displayed.

imary				
mmary				Audit Notes
Value		Value	1	My Series 2000 Audit
Insertions	31	Excrowed	22	
Accepted	21	Rejected	10	
Stacked	8	Ditabled	0	
VMC/Mech	ů.	OP Batio	3.88	
Stack Batin %	38.10	Accentance %	95.45	
\$1 Accepted	21	\$1 Accept Bate %	100	
\$2 Accented	0	\$2 Accept Bate %	0	
\$5 Accented	0	\$5 Accent Bate 2	0	
Aramark Coupon	0	Aramark Accept Bate %	0	
Coke Coupon	0	Coke Accent Bate %	ů.	
iam detected	0	iam failure	0	Edit Note
iam detect trash	0	jam failure trash	0	
stacker full	0	motor error	0	
sensor error	0	no stacker	8	
motor current	0	restarts	123	
disabled	0	ragged edge	1	
long bill	0	short bill	0	
fast feed	0	no recog	2	
BOB covered	0			

Read from Device		
Save Raw Data	Betrieve Audit	
	Reset Audit	

Click on **Save Raw Data** to read the data from the selected device and save the raw data to a file. MEI may request this file for further analysis.

Recycler Audit

For the Vending Note Recycler there is an additional tab that shows the audit data for the Recycler. The Application Part Number, Variant Part Number and Unit Serial Number displayed under Audit Details are for the validator of the VNR. The Recycler Unit Serial Number and Application Part Number are displayed on the Recycler tab.

Unit Seria	I Number 32	2990200012 A	pplication Part Numb	er RXA0116	
Description	Value	Description	Value	Description	Value
Inserted	5	Escrowed	5	Bill 0 Accepts	3
Unknown	2	Rejected	0	Bill 1 Accepts	0
Escrow Returns	2	Escrow to Recycler	3	Bill 2 Accepts	0
ER Failures	0	Fails from Escrow	0	Bill 3 Accepts	0
ER Jams	0	Jams from Escrow	0	Bill 4 Accepts	0
Stacked	3	Payed Out	0	Bill 5 Accepts	0
Stack Fails	0	Payout Fails	0	Bill 6 Accepts	0
Stack Jams	0	Payout Jams	0	Bill 7 Accepts	0
VMC Errors	0	Coin Mech Errors	0	Bill 8 Accepts	0
Validator Erros	0	Cover Opens	1	Bill 9 Accepts	0
Jams	0	Seperate	0	Bill 10 Accepts	0
Calibrations	1	Short Bills	0	Bill 11 Accepts	0
Long Bills	0	Jam Clears	0	Bill 12 Accepts	0
Coupons	0	Bad Tach Reads	0	Bill 13 Accepts	0
VN Comms Errors	0	Motor Stalls	0	Bill 14 Accepts	0
Motor Stalls Repos	0	Gate Timeout	0	Bill 15 Accepts	0
Power Ons	151				

Annotating an Audit

When you retrieve an audit from a device the Add Note dialogue is displayed. You can enter a note to be saved with the audit. When you have completed entering the note click the **Save** button to retrieve the audit from the device.

1 , /	Add a note?	_ 🗆	×
	Add your note here		
	No	<u>S</u> ave	

The note is displayed on the Summary tab of the audit form and also on the Select Audit dialog. To edit the note, before saving to the database, click the **Edit Note** button.

The Summary form displayed will depend on the type of device the audit is for.

SC Series Bill Acceptor Summary

ummary General QP Measures Failures Bill.	Audit BNF Audit		
- Calculated Datails			
Number of Inserted Notes	3	Number of Inserted Barcodes	4
Number of Rejected Notes	0	Number of Rejected Barcodes	4
Number of Accepted Notes	3	Number of Accepted Barcodes	0
Acceptor Note Acceptance Rate	100%	Acceptor Barcode Acceptance Rate	0%
Main Summary			
Total Documents Stacked	3	Total Value of Notes Stacked	15
Total Docs Reached Escrow Position	7	QP Rate	2.33
Host/Bill Acceptor Acceptance Rate	42.86%		
History			
Audit Last Cleared	0	Last Calibration	0
Last Download Request	03-Mar-12 12:00:00	Last Audit	25May-12 09:00:00
Notes			
SC2			Edit Note

Value		Value		MY CV1000 Audit
Insertions	0	Escrowed	0	
Accepted	0	Rejected	0	
Stacked	0	Disabled	0	
VMC/Mech	0	QP Ratio	0	
Stack Ratio %	0	Acceptance Rate %	0	
1 USD	0	1 USD %	0	
2 USD	0	2 USD %	0	
5 USD	0	5 USD %	0	
10 USD	0	10 USD %	0	
20 USD	0	20 USD %	0	
50 USD	0	50 USD %	0	Edit Note
100 USD	0	100 USD %	0	
stacker full	0	jam detected	0	
Num Of Pushes	0	jam failure	0	
motor error	0	sensor error	0	
no stacker	0	restarts	3	
ragged edge	0	long bill	0	
short bill	0	fast feed	0	
motor current	0	sensors not covered	0	
BOB covered	0			

Select Audit Dialogue



Viewing the Difference between 2 audits

By selecting 2 saved audits and checking the **Calculate Difference** check box you can view the difference between 2 audits.

elect Audit(s)				1
Sele	ect Audit(s)	1.1		
C Select <u>R</u> ecent Audits before date:	Unit Serial Nu	Application Nu	Audit Date & Time	Note
	005290000003	3GV10000126 3GV10000126	14-Jun-12 19:38:47 14-Jun-12 10:43:17	MY CV1000 A
June 2012 È				
28 29 30 31 1 2 3				
4 5 6 7 8 9 10				
11 12 13 14 15 16 17 18 79 20 21 22 23 24				
25 26 27 28 29 30 1				
Z 3 4 5 6 7 8				
Select Unit for Historic Audits:	1			
005290000003				
Calculate Difference				
Export Import	•			
				-
Use SUBNE Audit Names	Load	Ca	incel	<u>H</u> elp
Export to Excel	I and all			

Audit File Parser

The Audit File Parser form is shown below.

e Audit File Parser			
From File : F:\MEI_KEY\Audit\100420.txt From File : Machine Details			Devices Trevor Keu
Coin Mech Serial #	2578GB01036	CA101	Browse.
Coin Mech Model	CF790EXEC	CA102	
Coin Mech Sw Version	117	CA103	
Coin Mech User Defined	104620	CA104	
Reads With Reset	0	EA301	Files Size 100420.txt 1.5 KB 100419.txt 1.5 KB 100418.txt 1.5 KB 100417.txt 1.5 KB
Date	13/05/09	EA302	
Time	09:39	EA303	
Interrogator	G3	EA304	
Last Read Date	00/00/00	EA305	
Last Read Time	00:00	EA306	
Date of Initialisation	00/00/00	EA401	Bead Audit File
Time of Initialisation	00:00	EA402	
Date of Price Setting Time of Price Setting Price Setting Terminal User Defined Num Price Alterations	00/00/00 00:00	EA501 EA502 EA503 EA504 EA505	Machines In File Machine Id Machine Asset Coin Mech MEI2578GB01036 2578GB01
Date of Machine Service	00/00/00	EA601	MEI2578GB01037 2578GB010
Time of Machine Service	00:00	EA602	
Power Interruptions (I)	1051	EA701	
M/C Serial # M/C Module # Build Standard	MEI2578GB01036 0	ID101 ID102 ID103	
Decimal Point Position	2	ID401	
Currency Code (NO)	1826	ID402	
Audit Module Serial Num #	2578GB01036	AM101	Show Machine Report
Audit Module Model Num #	CF7900EXEC	AM102	
Audit Module Software Ver	V1.17	AM103	
Transactions			Help Options Close
Coin Mech Vends Value (I)	14.75	CA203	
Coin Mech Vends (I)	38	CA204	
Coin Mech Cash In (I)	43.00	CA301	
To Cash Box (I)	0.00	CA302	
		Þ	

The device list shows the connected devices.

Devices	
Trevor Key	
Browse	
•	•

When a device is selected a list of files is shown in the files list. The file names are in the format YYMMDD.txt where

- YY is the 2 digit year
- MM is the 2 digit month
- DD is the 2 digit day.

E.g. 100420.txt will contain the audits collected on 20th April 2010.

Files					
Name		Size			
100420.txt		1.5 KB			
100419.txt		1.5 KB			
100418.txt		1.5 KB			
100417.txt		1.5 KB			
-					
	Read Audit File				

To read a file double click the file or select the file and click the "Read Audit File" button.

The file may contain the audits for multiple machines so a list of machines is shown in the Machines in File list. By default the data for the 1st machine in the list is shown.

Machine Asset	Co
	25
	25
	Machine Asset

To change the machine data being shown, either double click the required machines or select the machine and click the "Show Machine Report" button.

Below are the functions performed by the buttons:

- Read Audit File Reads the file selected in the Files list.
- Show Machine Report Shows the report for the selected machine.
- Save Report Save the text of the report to a file.
- Options Displays a form where the parsing options can be changed.
- Close- Closes the form.

Audit File Parser Configuration

The Audit Parser Configuration form is shown below.



The tree view shows audit fields that can be included in the report. Only the fields checked will be included in the report.

Interims - Selecting the appropriate radio button enables or disable all the interim fields.

Totals – Selecting the appropriate radio button enables or disables all the totals fields.

Date Mode - Selecting the appropriate radio button sets the date format used in the report.

- European DD/MM/YY
- American MM/DD/YY

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 Acceptor - Cyclic Redundancy Check				
Offset/Address Seed Value Seed Value (32-bit)	0 4FC0 1234FFCD	Calculate CRC	Calculate CRC32	
		<u>H</u> elp		

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 CRC window.

Later versions of SC firmware are able to support 32-bit CRC's. STS V6.50 now allows the user to perform a 32-bit CRC check on a connected Bill Acceptor device that supports it.

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

Enter an 8 character hex value 0- FFFFFFF into the Seed Value (32-bit) text box.

Click on the Calculate CRC32 button.

The Bill Acceptor is interrogated and the 32-bit CRC value is displayed in the CRC window.

Bill Acceptor Diagnostics

To launch the Diagnostics window, click on the Diagnostics toolbar button, select Diagnostics from the Tools menu or press the shortcut key, F4.

The Bill Acceptor Diagnostics window will be displayed:



Bill Acceptor Diagnostics -

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

If an SCR Bill Recycler device is connected, the window will look slightly different, as shown below



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.	<u>Print</u>	Prints the test report shown on the Test Report tab.
	Loads test results from a file.	<u>Save Results</u>	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 <u>R</u>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
	Help

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.

shflow S	TS	×
Vatch the	LEDs and press OK to c	ontinue
	UK	

Event



Event Confirmation
Test Report

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

SC Series D	agnostics	- Passed	(<u>E</u> d	it Details	
Fest Details Time/Date	28-Feb-05 16	5:44:44			
Operator	James Poupar	d (Jimbob)			
Serial Number	874869320	874869320			
Notes	Test for User 1	Documentation, De	monstraion and Training.		
Self Test 1 - Pa	ssed	Description	Renair 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

Edit Details 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

CX Bill Validator Diagnostics

Sensor Test

In order to test the sensors, press the "Run all" button.

Sensors Calibration Test Device	
- Sensors	▲
Reference sensor 1 of the 53 board	
Reference sensor 2 of the 53 board	
Translucence sensor 1 of the 53 board	
Translucence sensor 2 of the 53 board	
Translucence sensor 3 of the 53 board	
Translucence sensor 4 of the 53 board	I
Translucence sensor 5 of the 53 board	
Translucence sensor 6 of the 53 board	
Translucence sensor 7 of the 53 board	
Translucence sensor 8 of the 53 board	
Translucence sensor 9 of the 53 board	
Translucence sensor 10 of the 53 board	
Translucence sensor 11 of the 53 board	
Translucence sensor 12 of the 53 board	
Translucence sensor 13 of the 53 board	
Translucence sensor 14 of the 53 board	
Translucence sensor 15 of the 53 board	

Calibration

Device calibration	
Calibrate	Run

Press run button on the "Device calibration" panel and wait until STS shows dialog to insert calibration voucher.

Insert the voucher in the way shown below:



After inserting calibration voucher, device collects data then returns the voucher to the user - the voucher should be removed. STS will then interrogate the unit for the final results. The result of the calibration will then be displayed.

Test device

Sensors Calibration Test Device		_
┌ Test device	_	
Optical reference sensor 0		
Optical reference sensor 1		
Optical scanning sensor 0		
Optical scanning sensor 1		
Optical scanning sensor 2	I	
Optical scanning sensor 3	I	
Optical scanning sensor 4	I	
Optical scanning sensor 5	I	
Optical scanning sensor 6	Image: A start of the start	
Optical scanning sensor 7	I	
Optical scanning sensor 8	I	
Optical scanning sensor 9	I	
Optical scanning sensor 10	I	
Optical scanning sensor 11	I	
Optical scanning sensor 12	I	
Optical scanning sensor 13	I	
Optical scanning sensor 14		
1	Import Colibration	

The final diagnostic test is to check the status of external interfaces and sensors. This test checks both the protocol and the optical boards.

Series 2000/CV1000 Bill Validator Diagnostics

This options tab shows the diagnostics available for a Vending Bill Validator

Oplone In SerVice Pun Bill Path Sensor Image: Sensor Image: Sensor Image: Sensor Left Start Sensor Image: Sensor Image: Sensor Image: Sensor Right Start Sensor Image: Sensor Image: Sensor Image: Sensor Sensors Image: Sensor Image: Sensor Image: Sensor Recognion Sensors Image: Sensor Image: Sensor Image: Sensor Recognion Sensors Image: Sensor Image: Sensor Image: Sensor Recognion Sensors Image: Sensor Image: Sensor Image: Sensor Commands: Commands: Image: Sensor Image: Sensor Calibrate Image: Sensor Image: Sensor Image: Sensor	Options Report	t							
Upbone In Service Run Status In Service Run Bill Path Sensor Image: Run Image: Run Magazine Sensor Image: Run Image: Run Left Start Sensor Image: Run Image: Run Sensors Image: Run Image: Run Sensors Image: Run Image: Run Image: Run Image: Run Run Sensors Image: Run Run Image: Run Run Run									
Status In Service Bill Path Sensor Image: Sensor Magazine Sensor Image: Sensor Left Start Sensor Image: Sensor Run Image: Sensor Sensors Image: Sensor Run Image: Sensor Recognition Sensor Image: Sensor Run Image: Sensor Recognition Sensor Image: Sensor Run All Image: Sensor Commands: Commands: Calibrate Image: Sensor	Uptions								
Bill Path Sensor Magazine Sensor Angazine Sensor Bin Left Start Sensor Commands Calibrate Patient Pati	Status		in service						Run
Bill Path Sensor Magazine Sensor Anght Start Sensor Run Right Start Sensor Anght Start Sensor Run Sensors Run Commands Calibrate Run Run Run Run Run Run Run Ru									
Magazine Sensor Left Start Sensor Run Right Start Sensor Run Sensors Run Run Run Commands Calibrate Run Run Run Run Run Run Run Ru	Bill Path S	ensor							🕜 🛛 Run
Left Start Sensor Right Start Sensor Right Start Sensor Right Start Sensor Run Sensors Run Sensors Run Commands Commands Calibrate Run Run	Magazine S	Sensor							🕢 Run
Left Start Sensor Right Start Sensor Recognition Sensor Recognition Sensor Run Recognition Sensor Run									
Right Start Sensor Sensors Pased Pased Pased Pased Sensor Low Run Commands Calibrate Pased Pased Pased Run Pased P	Left Start S	ensor							Mun Run
Sensors Run A B C D Recognition Sensors Passed Passed Passed Run All Sensor Levels Low n/a Low Run All	Right Start	Sensor							🕜 🛛 Run
Recognition Services Paradel Paradel <td>Sensors</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Bun</td>	Sensors								Bun
Percognition Sensors Parsed			A	B	C	D			
Sensor Levels Low riv's Low Run Al Calibrate Run	Recognition	Sensors	Passed	Passed	Passed	Passed			
Commands Calibrate Run	Sensor Leve	\$	Low	n/a	n/a	Low	J		
Commands Calibrate Run									Pum All
Contracts Calibrate Run									huntai
Calibrate Run	Comments								
Callorate	Colliburation								0
	Calibrate								Hun

Vending Note Recycler (VNR) Diagnostics.

The validator Tab is the same as that for other Vending Bill Validators, except that the Calibrate button is not available.

There is an additional tab to read the Transaction Log from the device.

ioneog		
nsactions		
0 : 0		
ode	Data	
14: TS UNCOVERGATE	28	
28: TS E2S GCLOSE	15875	
03: TS CAL2	15438	
78:		
S PB HUNTBILLORSTART	828	
60: TS STACKPAUSE	20228	
04: TS_CAL3	34640	
og: -1		
ode	Data	
<pre>14: TS_UNCOVERGATE</pre>	28	
28: TS_E2S_GCLOSE	15875	
03: TS_CAL2	15438	
78:	828	
S_PB_HUNTBILLORSTART	020	
60: TS_STACKPAUSE	20228	
04: TS_CAL3	35664	
og: -2		
ode	Data	
14: TS_UNCOVERGATE	28	
28: TS_E2S_GCLOSE	15875	-
		Run Report

Series 2000/CV1000 Bill Acceptor Support Files.

These files are installed by default to the All Users shared folder location. If the following error is displayed



Then check for the files in the specified location. On XP this can be found at C:\Documents and Settings\All Users\Application Data\MEI\Cashflow STS and on Windows 7 this can be found in the Public Document folder at C:\users\Public\MEI\Cashflow STS.

To add new files, simply select the **Manage Cab files** option from the admin menu with Cashflow STS. This will allow the user to add new files as they become available.

If you do not have a Series 2000 license then the files can be removed by re-running the installer and clicking the modify option as shown below



And then de-selecting the cab files feature as shown below

Cashflow STS - InstallShield	l Wizard	
Select Features Select the features setup will in	nstall.	
	Select the features you want to install, and deselect the features you do not want to install. MEI HII Driver Cashflow STS Application. MEI USB Driver Help Files CF8000 USB Driver MEI Product Firmware USB/MDB Cable Driver Cab data files for Series 2000 Bill Validators MEI Physical Serial Port Driver 0.00 MB of space required on the C drive 7186.05 MB of space available on the C drive	tall. :s 2000
Install Shield	< <u>B</u> ack <u>N</u> ext >	Cancel

Coin Changer Diagnostics

To launch the Coin Changer Diagnostics window, click on the Diagnostics toolbar button, select Diagnostics from the "tools" menu or press the shortcut key, F4. The following dialog will be displayed

Select Product	×
Select Product Cashflow 7000 Coin Changer - Serial Number: 4948YG00424 Load Diagnostic Results	
<u>D</u> K <u>C</u> ancel <u>H</u> elp	

This dialog will display all connected products that the user is licensed to perform diagnostics on. This module currently supports the CF7000, CF8000 and EC6000 changers only. If no products are connected, then the only way to launch the coin changer diagnostics window is to select 'Load Diagnostic results' and load a previously saved results file.

Once the connected product is selected from the list and the OK button pressed, the Coin Changer diagnostics window is launched. What the connected product is and what features it supports determine the resulting window and detailed features listed.

General Test Information

The diagnostics tests are broken down by module. Each module to be tested then has its own tab on the window as shown below.

Top Module	Dispenser	Coin Storage	Audit	Report	
	and the second second second	AARTANCHOOCONACTOR ACTOR	POINT CONTRACTOR	AND DECEMBER OF CROCKERS	1

Each tab then contains a series of manual tests that must be performed by the user as well as, in some cases, automatic connection tests. These connection tests are run when the diagnostic module is started and simply report the correct (or otherwise) operation of the fitted components. Shown below are the connection tests for the CF7000/CF8000 top module.



Test status

The status of each test is displayed using three different icons. If the test is running, the icon displayed will be as shown below for the temperature sensor

Temperature Sensor



If the test has passed, the user will see

Temperature Sensor	0	Run
and if the test fails, the following will be displayed		
Temperature Sensor	3	Run

"Run All" button

The "Run-All" button is displayed on each tab and, when clicked, runs all the manual tests on the current tab.

Skipping tests

If the user wishes to run all but one test, then they can either run each test individually or click the "Skip item" checkbox (if available for that test).

Display Diagnostics	🔽 Skip Item	Run
---------------------	-------------	-----

This then allows the selected test to be skipped when the "Run all" button is pressed.

Diagnostic Test Report

The Report tab allows you to view the details of the tests. It is dynamically updated as and when tests are run and can be viewed at any time.

Diag Cashflow 7000 Coin Serial Number: 4948	nostics Changer YG00424
p Module Dispenser Coin Storage Audit Repor	t
Print Edit Details	
Cashflow 7000 Coin Man	ager Diagnostics
Date/Time	31-Jul-07 11:46:07
Operator	Chief Tester
Serial Number	4948YG00424
Notes	Tested faulty product
r	
Fop Module Fop Module Diagnostics LED Diagnostics	Untested
Fop Module Fop Module Diagnostics LED Diagnostics LED 1	Untested Untested
Fop Module Fop Module Diagnostics LED Diagnostics LED 1 LED 2	Untested Untested Untested
Fop Module Top Module Diagnostics LED Diagnostics LED 1 LED 2 LED 3	Untested Untested Untested Untested Untested
Fop Module Fop Module Diagnostics LED Diagnostics LED 1 LED 2 LED 3 Button Diagnostics	Untested Untested Untested Untested Untested Untested
Fop Module Top Module Diagnostics LED Diagnostics LED 1 LED 2 LED 3 Button Diagnostics Display Diagnostics	UntestedUntestedUntestedUntestedUntestedUntestedUntestedUntestedUntested
Fop Module Fop Module Diagnostics LED Diagnostics LED 1 LED 2 LED 3 Button Diagnostics Display Diagnostics	Untested Untested Untested Untested Untested Untested

From this tab the report can be printed and saved. It is also worth noting that the Save Current Report appears on all of the tabs so that the report can be saved at any point during the testing.

The notes and operator fields can be edited by clicking the edit details button at the top of the report and entering the relevant information.

Top Module tests

This tab contains both user and connection tests. Shown below are the "Top Module" user tests for the Cashflow 7000 and 8000 changers. Please note that some products in the CF7000 range as well as all products in the EC6000 range do not have a display. Please see the "Display diagnostics" section for further information.

LED Diagnostics	📕 Skip Item	Run
Button Diagnostics	🦵 Skip Item	Run
Display Diagnostics	🥅 Skip Item	Run
		Run All

LED Diagnostics

Tests that the Changer LED's work correctly. When this test starts, the LED's shown on the screen should behave the same as those shown on the changer.

LED Dia	gnostic	s 🗵
•	1	×
•	1	×
•	✓	x
	ОК	

Press the box for each LED that flashes correctly. If one or more of the LED's do not flash, click on the box.

Button Diagnostics

Tests that the MMI buttons on the changer work correctly. Once the test starts, the user should press each button in turn and watch for a response on the button diagnostic form, shown below.



Display Diagnostics

Tests the MMI display on those CF7000 series products to which one is fitted. If the connected CF7000 changer does not have a display, then this test should be skipped. This option will not be available if an EC6000 changer is connected.

The test involves sending several patterns to the changer MMI display and then showing the same characters on the Display diagnostics form. For the test(s) to pass, the two displays should match. Shown below is an example of the form.

MMI Display	<u>×</u>
1 "#\$%& "	()++,/01234
56789: /	<=>?@ABCDEFGH
IJKLMNO	PQRSTUVWXYZ [\
Pa	ss Fail

Please note, however, that all the sequences will be tested, even if some of the sequences are deemed to have failed.

Top Module – Repair and Calibrate

STS includes the process to calibrate the CashFlow 7000/8000 top module or a CF9500 coin acceptor. For the CF7000/CF8000, the procedure will require the user to **<u>Reprogram the Top Module EEPROM</u>** and <u>**Calibrate**</u> **<u>Unit</u>**. For the CF9500, <u>**Calibrate unit**</u> is the only option. When calibrate unit is selected, the user will be prompted to drop a series of HOMER Standardization tokens while connected to the STS program.

The following examples detail the CF7000/CF8000. The process for the CF9500 is the same for the calibrate unit test.

Step One (CF7000/CF8000 only) - Open STS and click on the "Diagnostics" tab in the upper left corner. Under the Diagnostics feature select the "Repair and Calibration" tab under Top Module.

Diagnostics	
Diagnostics Cashflow 7000 Coin Changer Ser al Number: 4948YG00424	
Top Module Dispensed Coin Storage Audit Report	A
Diagnostics Repair and Calibration	
_ Repair	
Test Top Module EEPROM	Run
Reprogram Top Module EEPROM	Run
Calibrate Unit	Run
Reset Channel Windows	Bun

When the Repair and Calibration tab is opened, the first check is the Test Top Module EEPROM. This selection should already have a green check mark. If yes to a green check, skip to **Step Three**. If there is a red "X", proceed to **Step Two**.

<u>Step Two (CF7000/CF8000 only)</u> – *Red "X" Only*. To get a green arrow for Test Top Module select the "Run" button for Reprogram Top Module EEPROM. This will reset the programming and should provide a green check for the Top Module. Once you reset the programming, then the user can move forward with the calibration process.

METCathlow STS V5.00 - Administrator (admin) - [Diagnostics] File Tools Reports User Admin Window Help	
Image: Second	
Top Module Dispensel Cashflow Diagnostics Top Module Dispensel Construent Dispensel Construent Please Select the top module part number is printed on the back of the module.) Dispensel Construent Please Select the module.) Please Select the module.) Image: Select the module.) Please Select the module.) Image: Select the module.) Please Top Module EEProm Please Top Module EE Top Module EE Calibrate Unit Reset Channel Windows Please Calibrate Unit Please Channel Windows Swe Careert Report Beb Beb Meet Calibrate Meet Calibrate	Afflow STS V6
Cash flow Disconnation	
Please Select the top module part number from the following list. (The part number is printed on the back of the module.) 729272003 CF7000 NA Only 794426001 CF7000 Widethroat 729276001 CF7000 Euro Only 729272003 CF7000 NA Only	

A drop down box will appear displaying the different variants of Top Modules. The first number corresponds with the part number sticker on the back of the top module.

Please select the appropriate top module and press OK.

Once the top module is selected then STS will prompt the user to Calibrate Unit. This will be indicated with the popup box displaying the first token to drop. Move to **Step Three.**

Step Three (CF9500, CF7000 and CF8000) - Select the "Run" button for Calibrate Unit.

STS will walk the user through the process displaying a box to indicate which token is to be dropped. The large number "1" indicates that the first token is token number one. The tokens use a three digit numbering system so the number reads "001". This is the HOMER Standardization token "1". There are seven tokens in the calibration set. The set contains 001, 002, 003, 004, 005, 006, and 009. Each token has five attempts to be dropped before having to start over the process.

MELCashflow STS V6.00 - Administrator (admin) - [Diagnostics] File Tools Reports User Admin Window Help		
Image: Same of the	stics	
mei s	Diagnostics Cashflow 7000 Coin Changer erial Number: 2378YR02021	
Top Module Dispenser Coin Storage Audit Report		
Diagnostics Repair and Calibration	Unit Calibration	
Repair	Drop Calibration Token	
Test Top Module EEProm	-	Run 🛛
Re-Programe Top Module EEProm		Run
Calibrate Unit	Attempt 1/5	Run
Reset Channel Windows	Cancel	Run
Save Current Report	Help	
🔊 Start 🛛 🧭 🔉 👻 🗔 🦿 Gatecha M. Farly - Inboy 🛛 🤗 Instant Messan	ng Conta 🛛 🦲 Chris 1. Elautu/WCD/MET 🗍 🖨 MET Cashflows	TS V6.00 Dog markt - Microsoft Alexand

When the Drop Calibration Token box is displayed, drop the token indicated by the screen.



When a token has been accepted, the display will prompt you to drop the next token in the sequence.

Next Token:



Repeat these steps until all seven tokens have been accepted.

😤 MEI Cashflow STS ¥6.00 - Administrator (admin) - [Diagnostics]	_ 8 ×
Pile Tools Reports User Admin Window Help	X
Image: Constraint of the sector of the se	
Diagnostics Cashflow 7000 Coin Changer Serial Number: 2378YR02021	
Top Module Dispenser Coin Storage Audit Report	
Diagnostica Repair and Calibration	
David	
Tast Tan Madula FEPran	🐼 Bun
Re-Programe Top Module EEProm	🕜 Run
Calibrate Unit	🐼 🔤
Reset Channel Windows	Run
Save Current Report	
📲 Start 🛛 💈 🍘 av 🔹 😰 🖞 🥮 Catesha M. Early 😋 Instant Messaging 🔁 dt/data/STS 6.0 🖉 Instructions6.0.doc 🖉 Beta Instructions.d 🗳 MEI Cashilow ST	🍓 📲 🖳 🔊 🔮 🎨 🏷 🧔 🄗 🎝 1:37 AM

When the last token is dropped, the Repair and Calibration screen will display all four green check marks.

This will complete the calibration process.

Please note, a channelset must be downloaded to the unit before it will function correctly.

Dispenser tests

The dispenser test tab also contains user and connection tests. The user tests allow the tester to specify a number of times to dispense from each of the fitted tubes. After the number of specified cycles is complete, the tester will then be asked to verify the number of dispenses and from which tube, as shown below.

nagnostics neil Cashflor Serial Nu	Diagnostics w 7000 Coin Changer umber: 4948YG00424	
op Module Dispenser Coin Sto	rage Audit Report	
-Dispenser Tests		
Dispenser A	Num. Runs 👖 🛨 🜔 🗖 Skip Item 📃 P	lun
Dispenser B	Num. Runs 1 🛨 🗖 Skip Item 🛛 R	lun
Dispenser C	Diagnostics pltem F	lun
Dispenser D	Did 1 dispense(s) occur from tube A?	lun
Dispenser E	Yes No pitem F	lun
	Ru	nAI
Connection Tests		
Dispenser Clutch - A		
Dispenser Clutch - B		
Dispenser Clutch - C		
Dispenser Clutch - D		
Dispenser Clutch - E		
ave Current Report		

Coin Storage

Again, the "Coin Storage" tab contains both user and connection tests. This tab also sub-divides the tests to be run further into "Diagnostics" and "Repair and Calibration" tests.

Coin Storage - Diagnostics

The Diagnostics sub-tab contains the following user tests. Please note that the "Tube Counts" test is not available when an EC6000 changer is connected.

Diagnostics Repair and Calibration	
Coin Storage Diagnostics	
Temperature Sensor	Run
Tube Counts	Run
Accept Gate	Run
Separator Solenoid 1	Run
Separator Solenoid 2	Run
Separator Solenoid 3	Run
	Bun All
Connection Tests	
Seperator Solenoids	I
Spark Generator Connection	0
Acoustic Microphones Connection	0

Temperature Sensor

This test allows the user to verify that the temperature measured by the unit is correct, as shown below

The temperature	e reported
by the un	itis:
29.4	Celsius
84.9	Fahrenheit
Is this correct (within	n 3℃ or 5℃F)?
Yes	No

If the reported temperature is not within the specified tolerance, then the user should fail the test.

Tube Counts

This test checks that the CF7000 changer can dynamically acquire its tube counts. Again, if the reported tube counts are not correct, within the specified tolerance (as shown below), then the user should fail the test.

Please note this test is not available on the EC6000, as the product does not support this functionality.

Tube Counts					×
The tube	e coui l	nts rep Jnit are	orted f e:	rom the	ə
A 37	B 10	C 13	D 78	E 37	
Are	these	corre coins)	ct (with ?	nin 2	
<u> </u>	es		1	<u>4</u> 0	

Solenoid Tests

These tests check that each of the 4 solenoids fitted to the changer function correctly. This test is best done with the display open in order for the user to clearly see the solenoids firing.

For each solenoid test, the solenoid is fired indefinitely until the user passes or fails the test. If the solenoid doesn't move or only has limited movement, then the test should be failed. An example of the solenoid-firing dialog is shown below.



Coin Storage – Repair and Calibration

The "Repair and Calibration" sub-tab contains the following user options. Please note that the cassette calibration options will not be available when an EC6000 changer is connected.

repair	
Delete Temperature Calibration	Run
Delete Cassette Calibration	Run
Calibrate Temperature	Run
Calibrate Factory Cassettes	Run
Calibrate Fitted Cassette	Run

Delete Temperature Calibration

Allows the user to delete the current temperature calibration file.

Delete Cassette Calibration

Allows the user to delete the cassette calibration file.

Calibrate Temperature

This option allows the user to calibrate the temperature sensor on a unit. This is only usually required during repair when the sensor is replaced.

Calibrate Temperature	
Enter the Current T Calibrate th	emperature to ne Unit.
Celsius	21.0
🔿 Fahrenheit	69.8
Continue	Cancel

Calibrate Factory Cassettes

This option allows all 'factory' cassettes to be calibrated. The requirement for this will depend on market, e.g. US & Canada currently require this to be done. This option will not be available if an EC6000 changer is connected.

Calibrat Pla chai	e Factory Cassettes ce empty cassette to be calib nger. Select it from the list be calibration	rated into low to start
Id	Desc	Calibrated
DDA	US 5c, US 5c, US 5c, US 5c, US 5c	
DDB	US 10c, US 10c, US 10c, US 10c, US 10c	1
DDC	US 25c, US 5c, US 25c, US 25c, US 25c	
DDD	US \$1, US 5c, US \$1, US \$1, US \$1	
	Calibrated Selected Cassette	Cancel

Calibrate Fitted Cassette

This test allows the user to calibrate the currently fitted cassette. Again, this option will not be available if an EC6000 changer is connected.



Audit – Error Log

When run, this option retrieves the error log from the connected changer. An example of which is shown below.

Time	Since I	Error	Error	Descript:	ion	
1Days	10Hrs	20Mins:	CM1550	Cassette	uncalibrated	
1Days	10Hrs	48Mins:	CM1550	Cassette	uncalibrated	

Audit – Audit Log

On this page a user can configure ID101 and test audit retrieval. Please note audit may not be retrievable from some EC6000 changers, in which case a message will be displayed as such. The dialogs below show the page before and after an audit.

Configure Machine ID (ID101)	Run
	Bun

After an audit

Configure Machine ID (ID101)	Rup
D320*0050121001#114#11/C#1	
DAS*9252131001*VA*V1/6*1	
S1*001*0001	
CA1*4948YG00424*CF7500MDB*117*7672	
CA3*0*0*0*0*0*0*0*0*0*0	
CA4*0*0*0*0	
CA10*0*0	
CA15*0	
EA3*0*000000*0000**000000*0000*	
EA4*000000*0000*	
EA5*000000*0000***0	
EA6*000000*0000*	
EA7*3*3	
TD1*MEI3214**0***	
TD4*2*1	
AM1*4948YG00424*CF7500MDB*V1 17	
MA5*1*STATTIS*CM0300	
M45*2*C4C*0*0	
ML 5*2*CTT *1*1*6100*10*115*0*5*77*0*35*0/:	*^*^5*04*^*5*77*^
IVER.J. 5. FIL. 1. 1. 0120 . 10 . 11.J. 0. J. 77*0*2.J*84*	10-20-64-0-0-777/U
	Bun

Audit – Options

The audit options available are listed below.

Options	
Reset Interim Audit	Run
Reset Full Audit	Run
Reset Error Log	Run
Reset All	Run
Download Diagnostic Data	Run

Reset options

The reset options allow incremental resetting of both the audit data and the error log. Please note that "Reset Full Audit" will reset both total and interim audit data.

Download Diagnostic Data

This option retrieves various data files from the connected unit that can be used by MEI to diagnose more complex issues with the changer. To ensure these files are saved within the report, run this and then click on the Save Current Report

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Install Wizard

The install wizard is used to configure CF8000 with the machine specific data in the depot. The user enters the required data for the machine on the forms then saves the file to a Flash Drive. The Flash Drive can then be used to write the data to the CF8000.



To access the install wizard click the button on the tool bar.

- If there are no install templates stored on the PC a new template will be automatically created.
- If there is only one install template on the PC that will be opened automatically.
- If there is more than one install template on the PC a selection form is displayed, shown below.

Select Install File	
Cashflow 8000 Wiz1.xwf CF8000 16 Price.xwf	<u>H</u> elp <u>N</u> ew
	Load Cancel

- Help Shows help for the form.
- New Opens a new install template
- Load Opens the selected install template.
- Cancel Closes the form.

The install template form can be shown in to modes.

- Configuration Mode in this mode all of the configuration items available for install settings are displayed on the form. Each item has an "Include/Change settings' check" box. Only items that are checked will be written to the Flash Drive. When all the required items have been checked the template can be saved to the PC to be opened in Normal Mode at a later date.
- Normal Mode in this mode no check boxes are shown. Only items that have been checked in configuration mode are displayed. To change the selected items the user must click the "Configure" button.

Cashflow 8000 Coin	Changer (CF8000 16	📃 <u>I</u> nclude/Change All
<u>F</u> irst <u>P</u> revious <u>N</u> ext	Last	<u>W</u> rite <u>S</u> ave N <u>e</u> w <u>Configure</u> <u>H</u> elp
Cashless Prices for Cashflow	8000 Coin Changer	
Cashless Price 1	100	▼ Include/Change settings
Lashless Price 2		Include/Change settings
Cashless Price 3	100	Include/Change settings
Cashless Price 4	100	▼ → Include/Change settings
Cashless Price 5	100	▼ → Include/Change settings
Cashless Price 6	100	▼ 🗧 🔽 Include/Change settings
Cashless Price 7	100	▼ 🗧 🔽 Include/Change settings
Cashless Price 8	100	▼ ÷ Include/Change settings
Cashless Price 9	100	▼ 🗧 Include/Change settings
Cashless Price 10	100	▼ 🗧 Include/Change settings
Cashless Price 11	100	▼ 🗧 Include/Change settings
Cashless Price 12	100	▼ → Include/Change settings
Cashless Price 13	100	▼ → Include/Change settings
Cashless Price 14	100	▼ 🗧 Include/Change settings
Cashless Price 15	100	▼ → Include/Change settings
Cashless Price 16	100	▼ → Include/Change settings
Cashless Price 17		💌 📻 🔲 Include/Change settings
Cashless Price 18		💌 🚍 🔲 Include/Change settings
Cashless Price 19		🔽 📻 🔲 Include/Change settings
Cashless Price 20		Include/Change settings

Install Template Form in Configuration Mode.

Install Template Form in Normal Mode

Cashflow 8000 Coin	Changer (CF8000 16	
<u>F</u> irst <u>P</u> revious <u>N</u> ext	Last	<u>W</u> rite <u>S</u> ave N <u>e</u> w <u>C</u> onfigure <u>H</u> elp
Cashless Prices for Cashflov	v 8000 Coin Changer	
Cashless Price 1	100	
Cashless Price 2	100	
Cashless Price 3	100	
Cashless Price 4	100	
Cashless Price 5	100	
Cashless Price 6	100	
Cashless Price 7	100	
Cashless Price 8	100	
Cashless Price 9	100	
Cashless Price 10	100	
Cashless Price 11	100	
Cashless Price 12	100	
Cashless Price 13	100	
Cashless Price 14	100	
Cashless Price 15	100	
Cashless Price 16	100	

- First Navigates to the first page of configuration items.
- Previous Navigates to the previous page of configuration items.
- Next navigates to the nest page of configuration items.
- Last navigates to the last page of configuration items.
- Write Writes the data to a Flash Drive.
- Save Saves the template to the PC for later use.
- New Creates a new install template file.
- Configure Changes to Configuration mode.
- Help- Shows form help.

User Manager



Click on the Users button to launch the User Manager window.

The User Manager window will be displayed:

Us	er Manage	r:	
	- User Details-		
Login Id Name	User Details	-	
admin Administrator	Logon Id:	admin	
sc Gaming User			
	Name:	Administrator	
	Line Denti		
	User Permis	ssions:	
	Site Licens	e - no dongle required	
	Handhelds		
	SC Series	Bill Acceptor	
	SC Series.	Audit	
	SU Series	Laiculate LHL	
	SC Series Diagnostics		
	SC Series		
	Cashflow 9500 Coin Acceptor		
	CE9500 cc	Talk Configuration	
A <u>d</u> d <u>R</u> emove	CE9500 CI	IF File Generator	
	Cashflow 7	'000 Coin Changer	
Allow Auto Logon for all users	Generate F	Profile for Production/CTO	
	Generate I	HW Build Reports	m
	Configure	Fo Order (CTO) Tool	
Click here to clear the user's	Engineerin	g Configuration	
password.	🖌 ASC Repa	ir Configuration	
Report Password	NCI Engin	eering Import Channelset	
These (Trassmold	Cashflow 6	90 Coin Changer	
	Coin Teac	h Tool	
	EC6000 C	bin Changer	
	Cashflow [Jiagnostics	
	Cashflow L	Plagnostics MEI User	
	Product La	allora(lon (onding Audit Madula	
	Cashflow 9	renaing Audit Module 2000 Coin Changer	
		ce Bill Accentor	
Help Close	Conlux MC	M5 Coin Changer	

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 **Add** 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:



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:



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.

😫 MEI	I ERROR		
	USB Commun	cation Error USB Port not open in F	ReadDirectory OK
File:	c:\sts\mei p	oduct library (mpl)\mpl_fieldprogram	nmer\mpl_fpfilesystem.cpp
Line:	227	Revision: \$Revision: 1.29 \$	Save Log Copy

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 <u>About from the Help menu to display the About window:</u>



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.

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AES

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