MagTek Excella Wedge

User's Manual

For Excella, Excella STX, and ImageSafe devices.

V6. Rev 1

Document History

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1. Introduction

The MagTek Excella Wedge is designed to create a simple, secure, but strong communication bridge between MagTek's range of combined Image plus MICR cheque / document scanner devices with Australian users' existing financial systems. MagTek Excella Wedge will receive cheque/card information scanned from the MagTek scanner device and return that information as key strokes in a predefined/customized format to suit the users existing branch teller electronic cheque and small document handling application systems.

The Excella wedge utility supports connection of MagTek image scanner devices over USB or Ethernet (TCP/IP).

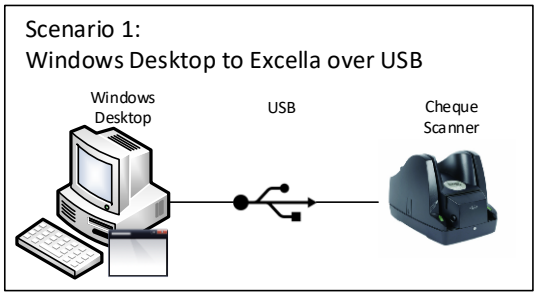
The Excella wedge utility in Desktop Mode only supports one MagTek image reader device at a time. Connecting multiple MagTek devices to a single PC or terminal workstation system via USB may produce undesired behaviour. Also, the USB device must not be removed or powered off without first closing the Excella wedge utility.

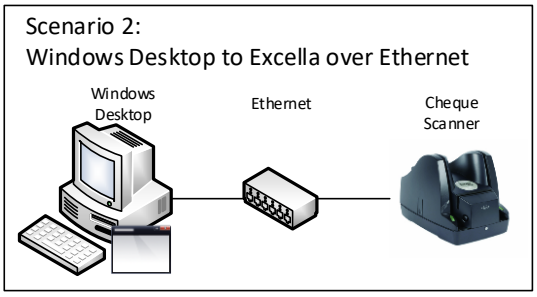
The Excella wedge utility supports multi-user modes. In these modes, multiple users may use individual Excella wedge instances connecting to individual Excella devices, one device per instance. This may take the form of multiple users on a single machine, multiple users on a single terminal services server, or multiple users on multiple load-balancing terminal services servers.

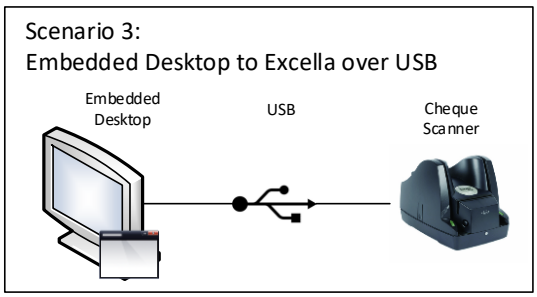
There is administrative password access control required to make any changes to the wedge utility configuration for individual devices. The system administrator should change the default password immediately after initial installation.

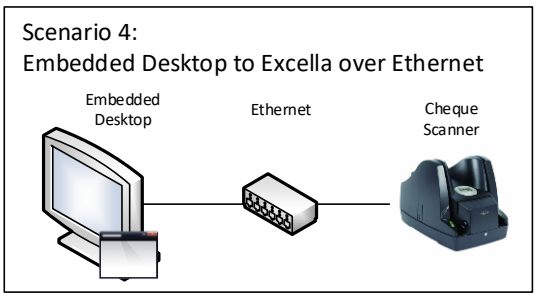
The following diagrams depict all the various deployment scenarios for the MagTek Excella Wedge for both Desktop Mode and Network Mode with Terminal Services Hosting support, highlighting the differences between locally attached USB and host network attached Ethernet TCP/IP.

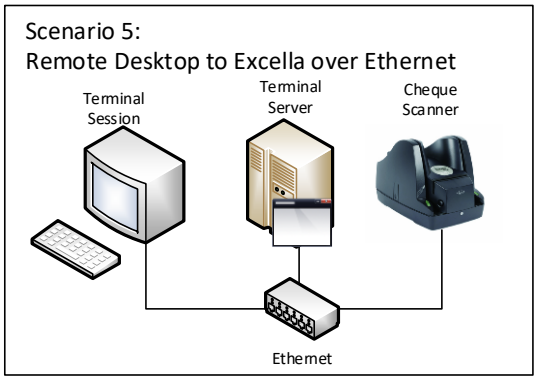
1.1. Deployment Scenarios

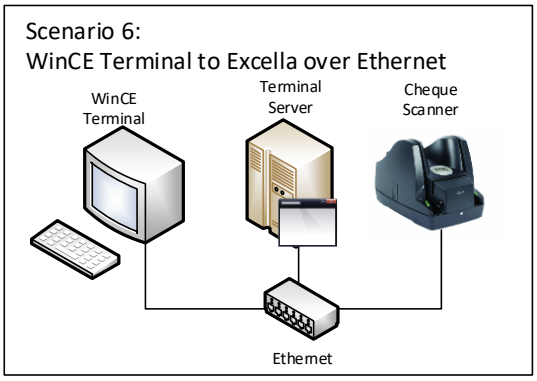


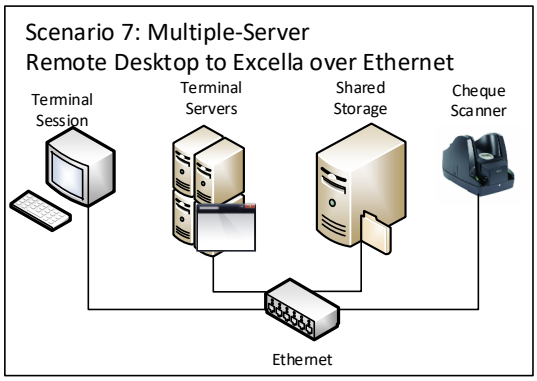


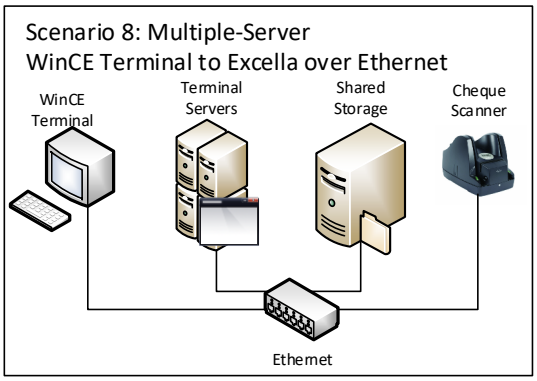












Windows desktop running:
- Windows Vista, 7, 8, 8.1, 10

Embedded desktop running:
- Windows 7 Embedded

Remote Desktop Terminal running:
- Windows 7, 8, 8.1, 10, Embedded, CE
- Connecting via Terminal Services to server

Windows Server running:
- Windows Server 2008, 2012
- Providing Terminal Services sessions

Location of MagTek Excella Software Utility

2. Equipment

The MagTek Excella Wedge only supports hardware designed by MagTek. The wedge utility will not operate with hardware from other vendors.

2.1. ImageSafe Device

This device supports single feed B&W dual sided cheque scanning, MICR reading and MagStripe reading. This device has no physical printing capability. The interface is USB only.

2.2. Excella STX Device

This device supports single feed B&W dual sided cheque scanning, MICR reading, front- and back-printing, ID card scanning and MagStripe reading. This device has both USB and Ethernet interfaces.

2.3. Excella Multi-feed Device

This device supports auto- and manual-feed B&W dual sided cheque scanning, and back-only printing. The auto-feed input hopper can handle up to 70 cheques in a batch, and can read up to 20 documents per second depending on size of the document, plus other configuration options selected. This device does not have a Magnetic Stripe Reader (MSR). This device has both USB and Ethernet interfaces.

3. Requirements

The pre-defined cheque MICR line formats included in this software were designed for Australian APCA industry standard MICR formatted cheques. Cheque formats outside Australia may not work properly with this software.

Windows .NET framework is required to operate this utility.

3.1. Desktop Mode Requirements

Operating System supported: Windows XP; Vista; Windows 7, 8, 8.1, 10; Server 2003; Server 2008; Sever 2012; Server 2016, Server 2019, Server 2022.

PC Interface Required: USB or Ethernet.

Disk Space: Min. 20Mb free.

CPU/Memory: Operating System Minimum Requirements.

3.2. Multi-User Modes Requirements

Operating System supported: Windows XP; Vista; Windows 7, 8, 8.1, 10; Server 2003; Server 2008; Sever 2012; Server 2016, Server 2019, Server 2022.

PC Interface Required: Ethernet.

Disk Space: Min. 20Mb free, plus 5Kb per user.

CPU/Memory: 30Mb per user.

4. MagTek Excella Wedge Application Overview

The MagTek Excella Wedge is an interface tool/application to enable a user to link legacy/existing financial applications to the supported MagTek Excella Image scanner devices.

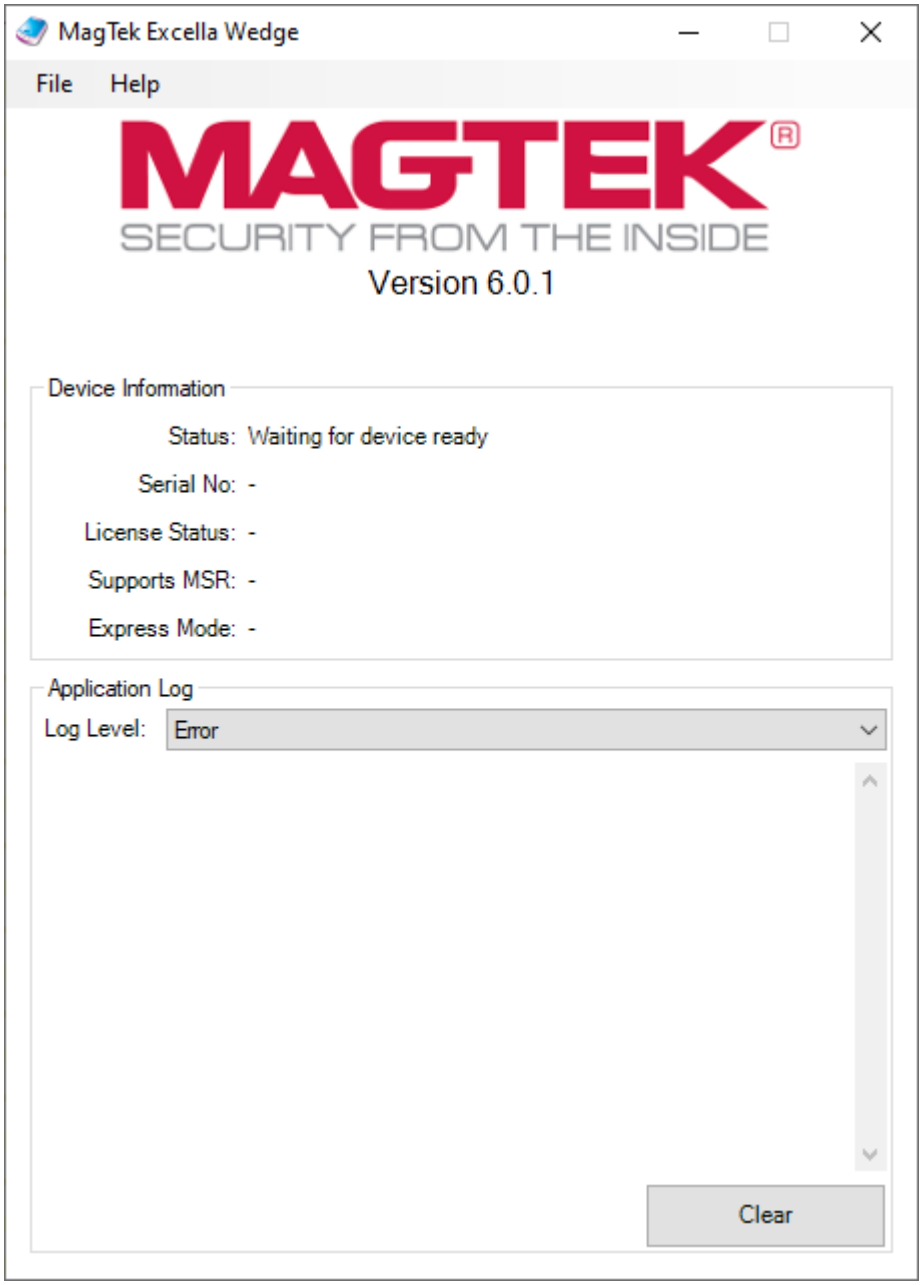
The wedge utility starts automatically when the user logs on to the terminal. The wedge utility sits as an icon in the notification area of the task bar.

Normally, the wedge utility needs no interaction with the user. However, pop-up error and status messages may be displayed from time to time to communicate important information to the user.

There are a number of windows available for status display and configuration/setup.

4.1. Main Screen

The main screen is the main status display for the wedge utility.



To make any changes to configuration options for any devices the **Configuration** option must be selected in the **File** drop down list on the main screen.

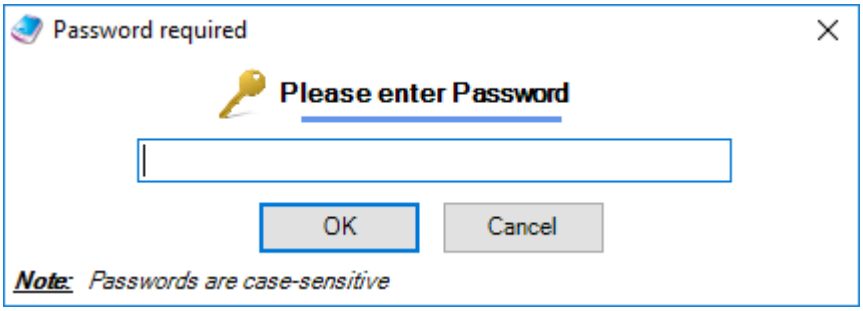
4.2. Configuration Screens

The configuration screens are where connection interface, cheque MICR line format, magstripe, ID card and image scanning, printing and other operational and security options are configured.

All configuration screens and options are described and defined in a later section of this manual.

For security access control reasons the configuration screen is password protected, so the user will always be prompted to enter the password when this option is selected.

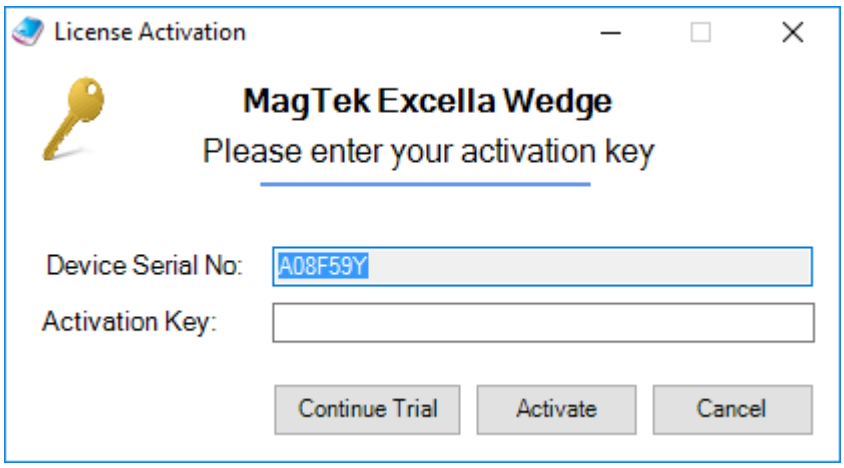
Passwords are case sensitive.



The wedge utility default password is !MagTek#

N.B. It is highly recommended that this default password be changed by the system administrator immediately after initial installation. See the “Security” configuration section, later in this manual, for details on how to change the password.

4.3. License Activation Screen

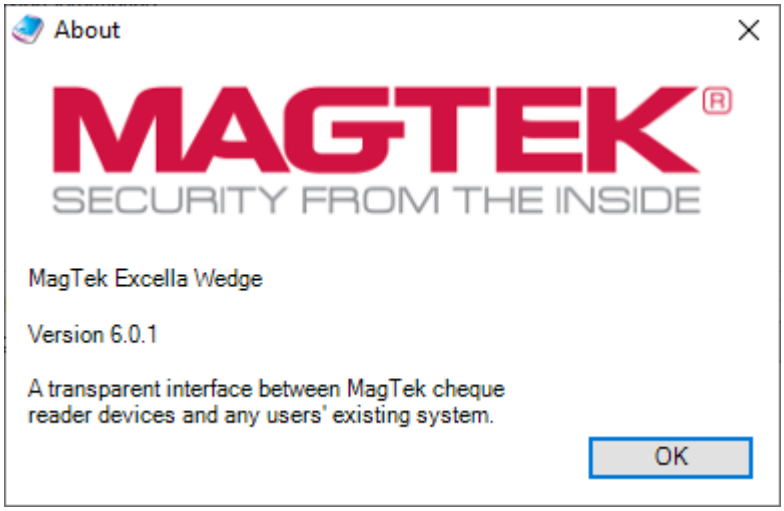


This screen will be displayed when the wedge utility first connects to a new device. Each device must be licenced to work with the wedge utility. The wedge utility will remember previous licensed devices, so a device should only need to be activated once. Activation codes are case sensitive.

A 30-day trial period is permitted before the activation code is required to prevent lockup. Full functionality usage is permitted during this period if Continue Trial option is selected. A message popup will remind a user of the number of trial days remaining if the activation code has not been entered.

Contact your MagTek Support Centre for all licensing activations.

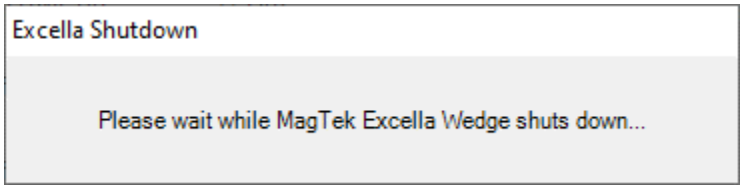
4.4. About Screen



The About screen will display basic information about the wedge utility.

4.5. Shutting Down

When closing or exiting the Excella Wedge, you will see a pop-up window, as shown below.



This window will remain displayed until the Excella Wedge completes the last command issues to the device. This will take a few seconds to complete, before the wedge shuts down completely.

The purpose of this popup is to delay Windows from logging off/shutting down until the Excella Wedge is ready to close and the scanner device is in a good state to close. This may also manifest as Windows reporting that the Excella Wedge is preventing Windows from shutting down or logging off. Never force the Excella Wedge to close before its shutdown process has completed; Windows will continue the shutdown/log off once the Excella Wedge closes in a few seconds.

WARNING	Forcing a log off or shut down to complete using the “Log off anyway” or “Shut down anyway” buttons may cause the cheque reader to become desynchronized from the host computer and no longer respond to commands. A power cycle of the cheque reader is required to recover from this condition.

5. Licensing

When first installed, the Excella wedge utility will begin a 30-day trial period. While in this trial period, the wedge utility will be fully functional, but you will be asked if you want to continue the trial, or activate the device, every time the wedge utility connects to a device.

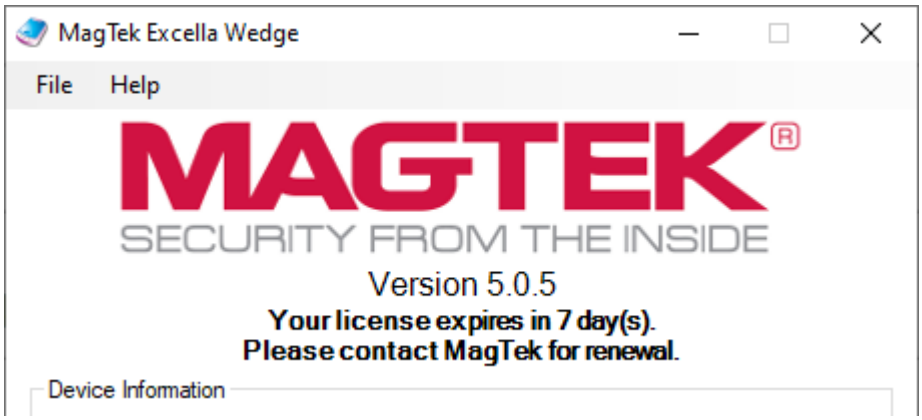
After 30 days, the software will not accept a trial continuation, and you must purchase a license for your device.

Licenses are generated on a per-device basis. You can purchase a license for a device, and reuse that license on many machines, as long as that same device is used. You may also apply licenses to multiple devices on many machines, and the wedge utility will use the appropriate license for the currently connected device.

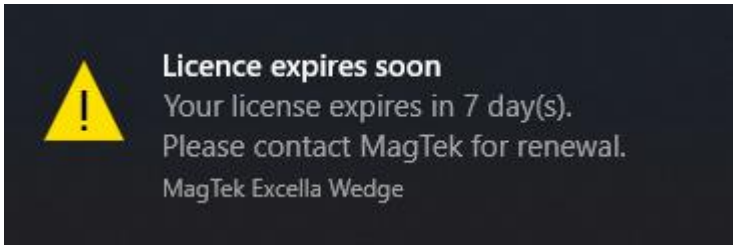
5.1. Annual License

Licenses remain valid for one year after the date of issue. After the maintenance period has expired, the license will become invalidated, and a new license must be purchased.

The status window of the Excella Wedge utility will show the license expiry date for the currently connected device.



When your device's license expiry date approaches, the operator will get a notification informing them that their license will expire soon.



6. Setting Up

6.1. Installing the Wedge Utility

Installation of the wedge utility is rather straightforward. Double-click the installer package and follow the on-screen prompts. The installer package allows you to install the wedge utility, the .NET 2.0 Framework, and the MagTek Excella Image device drivers.

Once the installation is complete, if the terminal is restarted, the wedge will automatically start.

6.1.1. Remote Unattended Install

The wedge utility is distributed as a .MSI setup file. This file can be deployed directly on a machine, or through a Group Policy from the network domain controller.

To silently install the wedge utility, use the “msiexec” .MSI installer tool in Windows.

```
msiexec /i "ExcellaWedgeInstaller-x64 6.0.1.0.msi" /qn
```

Note the use of quotation marks around the .MSI installer file.

To install via Group Policy, please consult the documentation for your version of Windows Server.

6.1.2. Upgrading

The wedge utility installer is able to do in-place upgrades simply by running the installer. The old version of the wedge utility will be removed, and the new version will be installed in its place. All settings and formats will be preserved through the update.

WARNING	Installing a new major version (Eg. V2.x -> V3.x) may invalidate configured device keys. This may present a problem in Terminal Services-based configurations. New, updated licences will need to be obtained from MagTek for your existing devices. The only exception to this is upgrading from V4.x to V5.x, which does not require new keys.

6.2. Connecting the Excella Device

The Excella device may be connected to the wedge utility using one of three methods: MagTek USB, RNDIS USB, or Ethernet.

6.2.1. MagTek USB Connection

MagTek USB connection is the simplest method for connecting an Excella device. Simply connect the device to the computer using a USB cable. The wedge utility will scan the computer looking for a connected MagTek Excella device. Once a device is found, it will open the device, check the licences, and initiate scan monitoring.

6.2.2. Network Connection

If your device is configured to use RNDIS USB or Ethernet, you can connect the device to the wedge utility by entering the wedge configuration screen. Right-click on the tray icon and choose “Format Configurations” from the popup-menu.

Enter your configuration screen password when prompted (see the Security section for default password).

On the Connection tab, enter the connection information for the device. Hit the “Save” button to write and save these settings to disk and start the wedge connecting to the device.

6.3. Configuring Scan Formats

The next step is to configure scan paths and formats. Please see following sections in this document for information on configuring these options.

7. Configuration

The wedge utility is configured for operation from a number of configuration tabs in the MagTek Excella Wedge Settings screen.

This screen is accessed by choosing File -> Format Configurations from the main screen, or by right-clicking the tray icon and selecting the Format Configurations option from the popup menu.

When the configuration screen is opened, the user will be prompted for a password. This password may be configured from the Security tab of the configuration screen. See the Security section for the default password and recommendations for system administration password management.

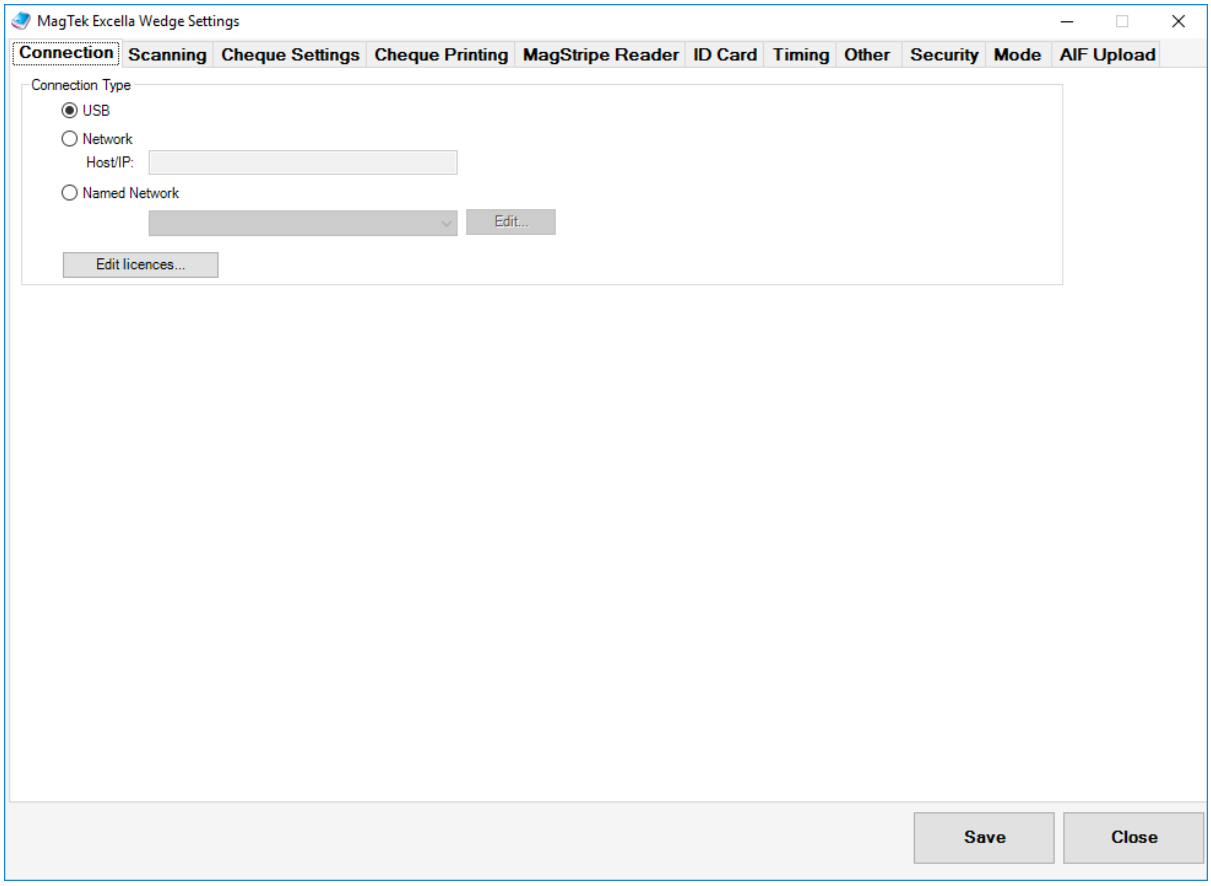
7.1. Express Mode

The Excella multi-document device supports Express mode. Express mode trades the ability to print on cheques, for a much faster scan rate. Digital printing on the cheque image is still supported, even in Express mode.

Express mode can be enabled by right-clicking on the Wedge tray icon and choosing “Express Mode.” This menu option will show a check mark if the device is currently in Express mode.

Enabling or disabling Express mode will cause the device to reset.

7.2. Connection



The wedge utility supports two different connection methods: USB and Network (Ethernet TCP/IP).

When connecting a supported device to the computer using MagTek USB mode (not RNDIS USB mode), select the USB option. The wedge utility will scan for connected MagTek Excella image scanner devices and use only the first one it discovers.

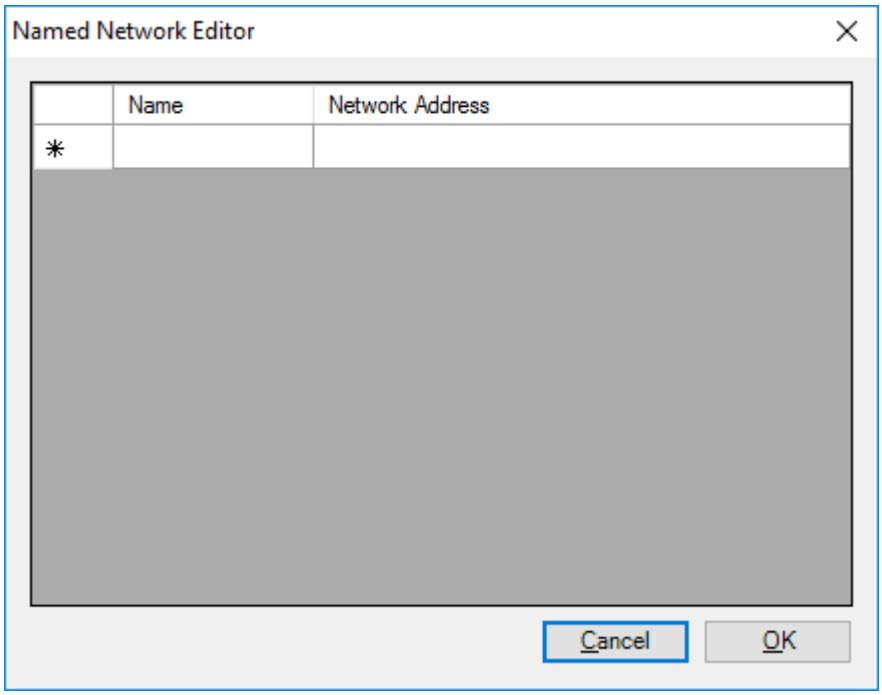
Note that connecting multiple Excella devices to a single computer using USB is not supported, and may have undefined effects.

When connecting to a device configured for RNDIS USB (USB-based network) or Ethernet, select the Network option and enter the device address/port. You may use a device host name, DNS name or IP address to specify the device. You may also enter a device port to connect to.

The default port is 80. For instance, “192.168.0.100” will tell the wedge utility to connect to the device located at IP address 192.168.0.100 using port 80. “Excella:8080” will tell the wedge utility to connect to the device host named “Excella” using port 8080.

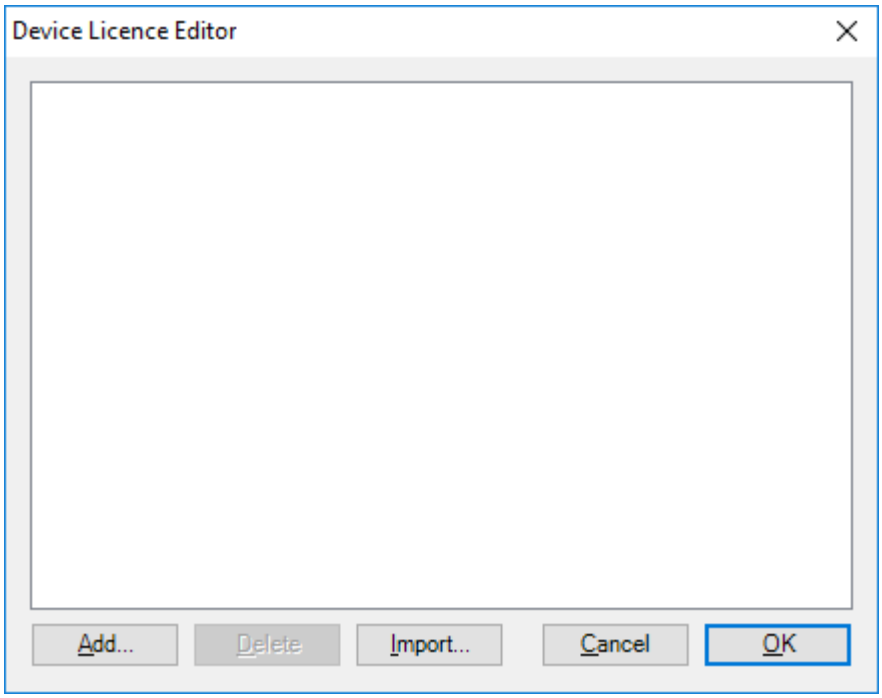
The Named Network option is used when pre-configured network device bindings are used. Changing devices in this mode is as simple as selecting the device from the drop-down list. The list can be edited by hitting the “Edit…” button.

7.2.1. Named Network Editor



This screen allows you to edit the pre-configured network devices. New entries can be added by typing information in the “*” marked row. Existing entries can be edited on the fly. Entries can be deleted by selecting the rows to be deleted and pressing the delete button on your keyboard.

7.2.2. Licence Editor



This window allows you to add, remove, and bulk import device licences. Licences are added by clicking the Add button, which pops up a licence entry window. The Delete button will remove the currently selected licence. The Import button allows you to import a bulk list of licences from a CSV file. You may cancel editing and with the Cancel button, or apply the changes with the OK button.

The licence CSV file must have the following format:

Serial	**Key**
Serial number 1	*Licence key 1*
Serial number 2	*Licence key 2*
Serial number 3	*Licence key 3*
Etc…	*Etc…*

7.3. Scanning

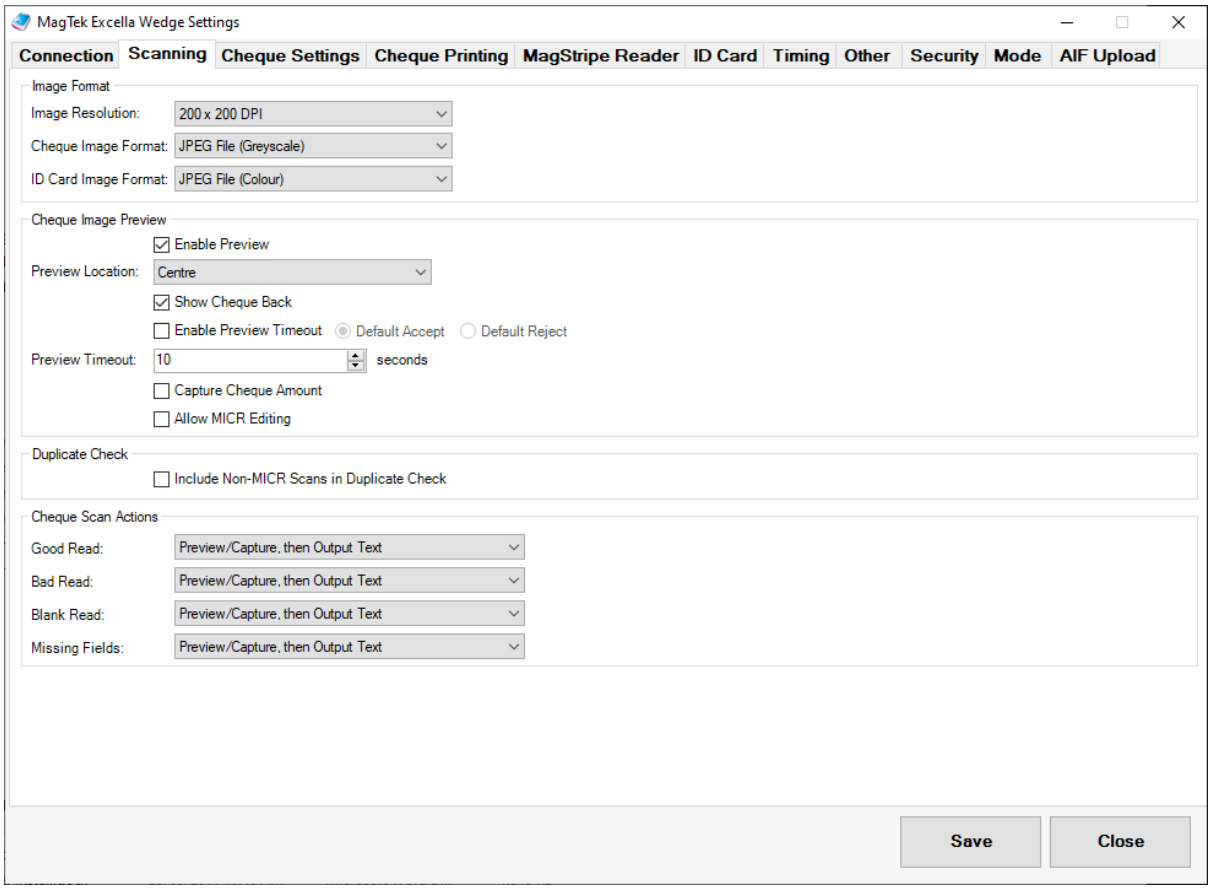


Image format and resolution can be adjusted to increase image quality or reduce file size. Image preview settings may also be adjusted.

7.3.1. Image Resolution

Image resolution can be adjusted to either 100x100 DPI or 200x200 DPI. A higher DPI setting produces a larger image of higher quality. A lower DPI setting produces a smaller image of lesser quality. The image size will vary depending in the physical size of the paper document and the amount of data appearing on the image.

7.3.2. Cheque Image Format

Cheque images can be saved in JPEG, TIFF or PNG format. PNG files will store a large, lossless image file. JPEG files will store a smaller image file. TIFF images will store the smallest image file as hard black & white (B&W).

TIFF File (Monochrome): This option produces a black and white TIFF image file.
JPEG File (Greyscale): This option produces a compressed greyscale JPEG image file.
JPEG File (Colour): This option produces a compressed colour JPEG image file.
PNG File (Greyscale): This option produces a lossless greyscale PNG image file.
PNG File (Colour): This option produces a lossless colour PNG image file.

7.3.3. ID Card Image Format

ID card images can be saved in JPEG, TIFF or PNG format. PNG files will store a large, lossless image file. JPEG files will store a smaller image file. TIFF images will store the smallest image file as hard black & white (B&W).

TIFF File (Monochrome): This option produces a black and white TIFF image file.
JPEG File (Greyscale): This option produces a compressed greyscale JPEG image file.
JPEG File (Colour): This option produces a compressed colour JPEG image file.
PNG File (Greyscale): This option produces a lossless greyscale PNG image file.
PNG File (Colour): This option produces a lossless colour PNG image file.

7.3.4. Enable Preview

The cheque image preview display can be disabled. Note that disabling the image preview will also disable cheque amount capture.

7.3.5. Preview Location

The location where the image preview is displayed can be chosen here. You can choose from all four corners of the screen, or centre screen.

7.3.6. Show Cheque Back

Checking this box will cause the image preview to display both the front and back of the cheque.

7.3.7. Enable Preview Timeout

Checking this box will enable a countdown timer on the image preview. If the operator doesn't interact with the image preview, the selected default action will be triggered when the timeout expires.

7.3.8. Preview Timeout

This setting controls the number of seconds to start the timeout countdown at.

7.3.9. Capture Cheque Amount

Checking this box will allow the operator to enter a dollar value for the cheque. This dollar value will be saved with the cheque images, and optionally output as keystrokes.

7.3.10. Allow MICR Editing

Checking this box will allow the operator to edit faulty or misread MICR data in the cheque preview window. "Enable Preview" must be checked for this option to have any effect.

7.3.11. Include Non-MICR Scans in Duplicate Check

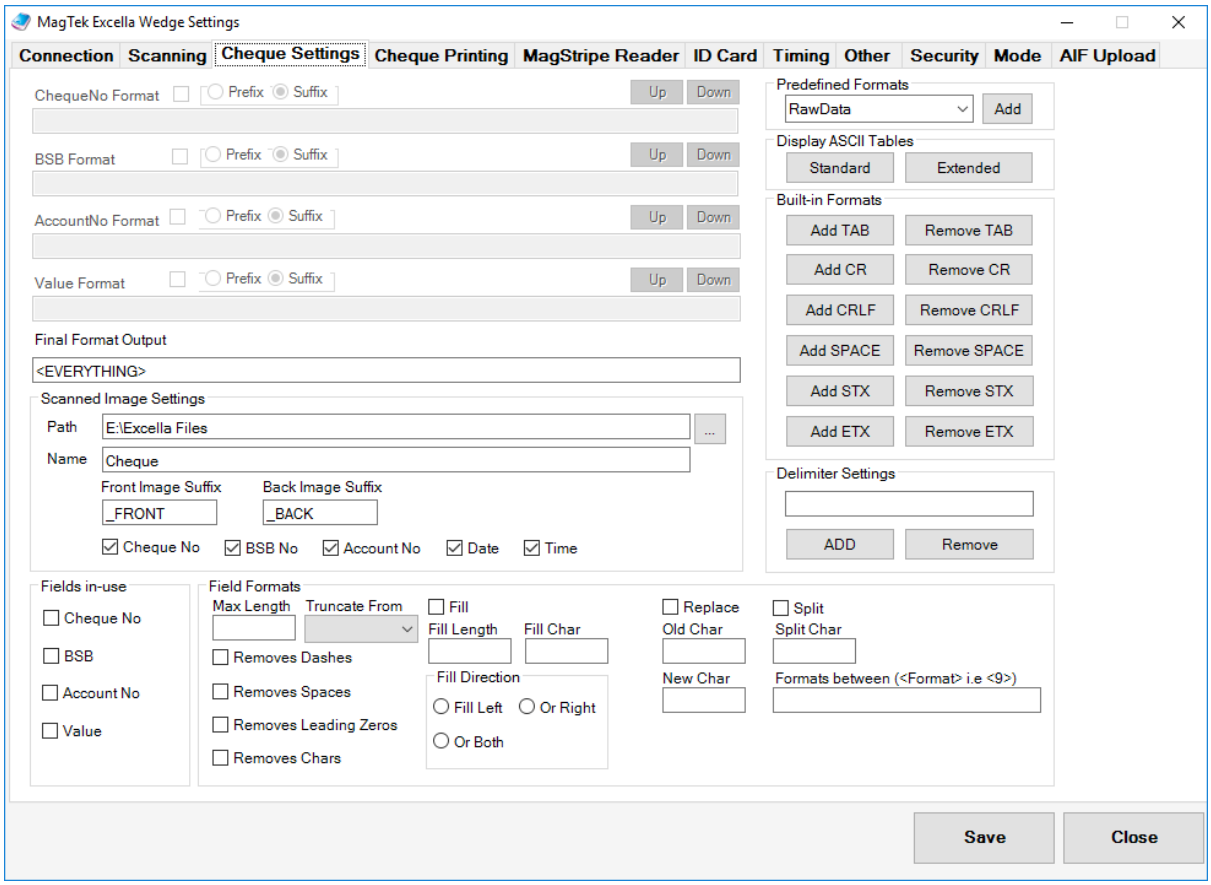
Checking this box will cause any document scans that do not contain a MICR line to be included when detecting duplicate scans. Note that all documents with no MICR reads are treated as the same document for duplicate detection.

7.3.12. Cheque Scan Actions

The options in this grouping defines the order that actions will be taken on each cheque scan. You may choose "**Preview/Capture, then Output Text**", or "**Output Text, then Preview/Capture**".

Note that if you select “Output Text, then Preview/Capture”, you will be unable to enter a cheque amount before keystrokes are sent to your core banking application. However, the cheque amount will still be stored in the associated .txt file and AID output after preview/capture.

7.4. Cheque Settings



The options available on this screen are selected as described below.

7.4.1. Final Format Output

Display final format output of each field of the cheque MICR line. Each field has its “Up” & “Down” buttons which are used to select and shift its order position within the format. Tick boxes to include fields.

7.4.2. Scanned Image Settings

Set the path to store scanned cheque images. Set the file name prefix, and fields to add to file name, image side suffix, and image type. Final file name is as follows:

`Name[_ChequeNo][_BSB][_AccountNo][_Date][_Time][Suffix].[tif|jpg]`

Example: `ScannedCheque_000001_123456_1234567_100412_103724_FRONT.jpg`

7.4.3. Fields in-use

Allows a user to include or exclude particular fields when sending information to their current system. For example, users might want to exclude Cheque Number when sending information. Therefore only BSB Number, Account Number and Value are sent. Tick boxes to include fields.

7.4.4. Field Formats

Max Length: If data length is longer than defined length, it will be truncated.

Removes Dashes: Remove all dashes from scanned data. E.g. “000-253” becomes “000253”

Removes Spaces: Remove all spaces from scanned data. E.g. “000 253” becomes “000253”

Removes Leading Zeros: Removes leading zeros from scanned data. E.g. “000253” becomes “253”

Removes Chars: Removes letter characters from scanned data. E.g. “B000253F” becomes “000253”

Fill: Pad out scanned data to a minimum number of characters.

Fill Length: Number of characters to pad scanned data out to.

Fill Char: Character to use when padding scanned data.

Fill Direction: Pad scanned data to the left, right, or both (centre).

Replace: Enable replacing of one character with another.

Old Char: Character to search for when replacing.

New Char: Character to replace and occurrences of Old Char with.

Split: Enable splitting of scanned data by a character.

Formats between: Format to place between split fields before recombining. E.g. if Split Char is “45” (dash) and Formats between is <9><13> then data of “000-253” will become “000<Tab><Carriage Return>253”. Use ASCII characters to select non alphanumeric separators.

7.4.5. Predefined Formats

A drop down list allows users to load pre-defined formats. The selected format will be saved as “Use my custom design” when the Save button is clicked. The user may also define their own custom format.

Predefined formats can be added, removed or edited by changing the files located in the Wedge Utility’s settings folder. This folder is located in “%allusersprofile%\Existco\Excella Wedge”.

7.4.6. Display ASCII Tables

Display standard and extended ASCII Table as user reference.

7.4.7. Built-in Formats

A number of predefined common formats can be used to add to scanned cheque data including: TAB (9), CR (Carriage Return - 10), CRLF (Carriage Return Line Feed – 10 13) and Space. These characters can be used as separators inserted between fields.

7.4.8. Delimiter Settings

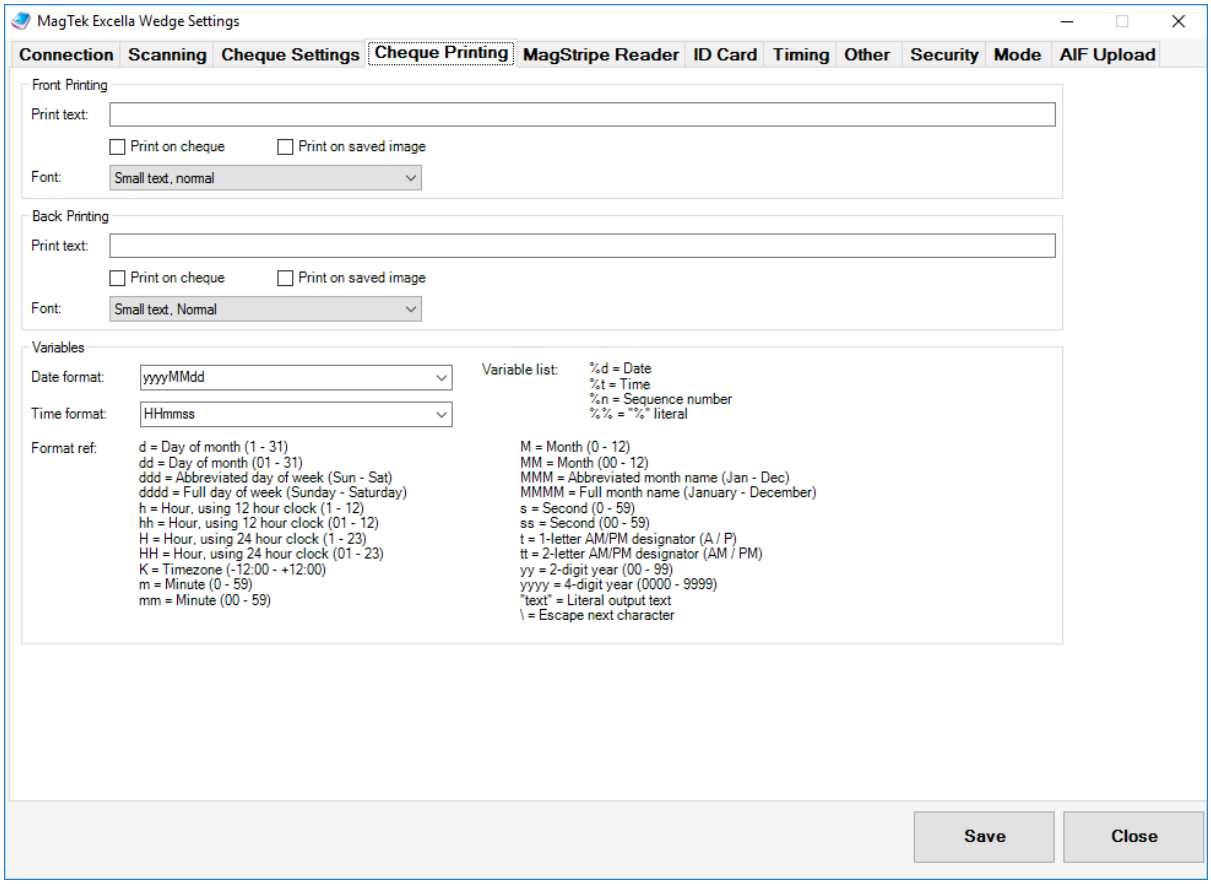
Similar to Built-in Formats component but more flexible and powerful. Users can separate fields with any characters in the ACSII Table lists. For example: In order to add a <TAB> between ChequeNo and

BsbNo, the user needs to select ChequeNo Format checkbox, then select Prefix (Front) or Suffix (End), type 9 into Delimiter Settings field, click ADD. Repeat to add other format as required.

7.4.9. Cheque Settings Examples

See Appendix A for more detailed working examples of Cheque settings.

7.5. Cheque Printing



Some supported MagTek Excella scanner devices have the ability to physically print franking messages on the front and endorsement messages on back of cheques or documents. Endorsement and Franking messages can also be added to the digitized scanned image of the cheque or other documents with all the supported MagTek scanner devices. These endorsement and franking print messages are configured on this screen.

7.5.1. Front Printing/Back Printing

This option enables users to specify the franking / endorsement message to use when printing on the front/back of the cheque or image respectively. This message may contain variables.

Users may select to physically print on the cheque or document and/or logically print on the saved image.

Note that some print-capable MagTek Excella image scanner devices will physically print on the cheque front before scanning.

Users may select from the fixed predetermined fonts to use when printing characters on cheques or other documents. There is a choice to select either small/large text, and also to select from

normal/bold/wide text. These choices will determine how many characters can be printed as the print space is fixed to the same length.

7.5.2. Variables

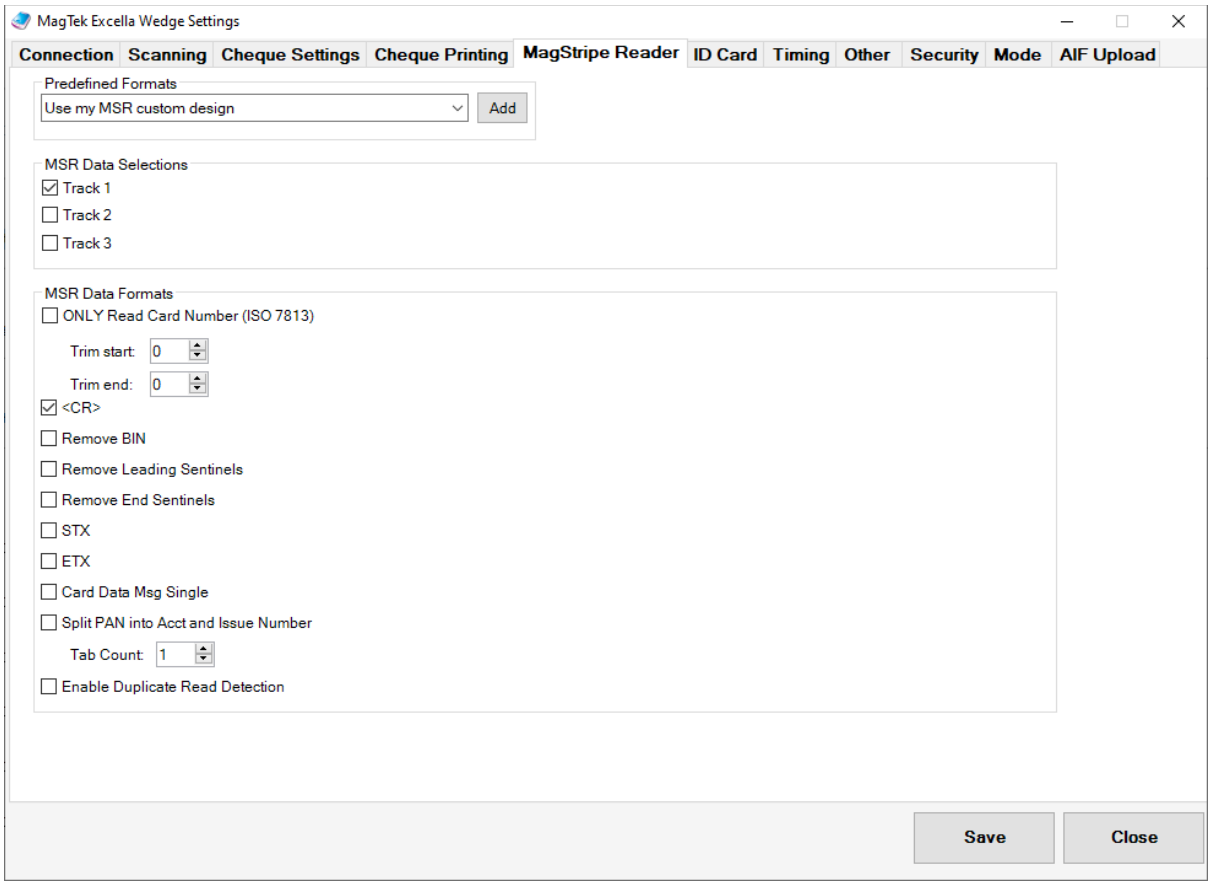
Print message may contain variables. These variables in the text are replaced when printing on the cheque or document or image. The variables that may be used are:

- %d Date (format configurable)
- %t Time (format configurable)
- %n Document/sequence number (based on number of scanned documents to date)

If the user needs to use a “%” character in the print message, then it is necessary to use “%%” instead in the specified string. Each “%%” combination will be converted to “%” when printed. If you do not use “%%”, any “%” symbols may be interpreted as variables which may not produce the desired insertion character.

The date and time format is fully customizable. Common date/time formats may be chosen from the drop-down boxes, or a custom date/time format may be entered using the format reference.

7.6. MagStripe Reader



Some wedge utility supported MagTek Excella scanner devices have magnetic stripe readers (MSR) to read and decode the data on magnetic stripe of both standard financial transaction and ID cards. The magstripe data must be encoded in standard ISO magnetic stripe format in order to be captured, processed and formatted by the wedge utility. Non ISO formatted data cannot be read.

7.6.1. Predefined Formats

The drop down list under this tab allows users to select pre-loaded MSR formats, or choose “Use my MSR custom design” to design a user preferred format.

7.6.2. MSR Data Selections

This allows users to include or exclude particular magnetic stripe Track 1, 2 or 3 Data when sending information to their application system. Users, for example, might want to exclude Track 1 & 3 when sending information and only Track 2 would be sent.

7.6.3. MSR Data Formats

This provides the flexibility for how users may want MSR track data output formats to be transmitted.

ONLY Read Card Number: It will read all 3 Tracks one by one until detecting the Card Number, then returns it.

Trim start: Remove this many characters from the start of the card number. Only applies when “ONLY Read Card Number” is checked.

Trim end: Remove this many characters from the end of the card number. Only applies when “ONLY Read Card Number” is checked.

<CR>: Add a Carriage Return at the end of each Track or at the end of the whole track string.

Remove BIN: Remove letter ‘B’ in front of Card Number Data.

Remove Leading Sentinels: Remove “%?” symbols at the start of track data.

Remove End Sentinels: Remove “%?” symbols at the end of track data.

STX: Add Start-of-Text character to the beginning of Track data.

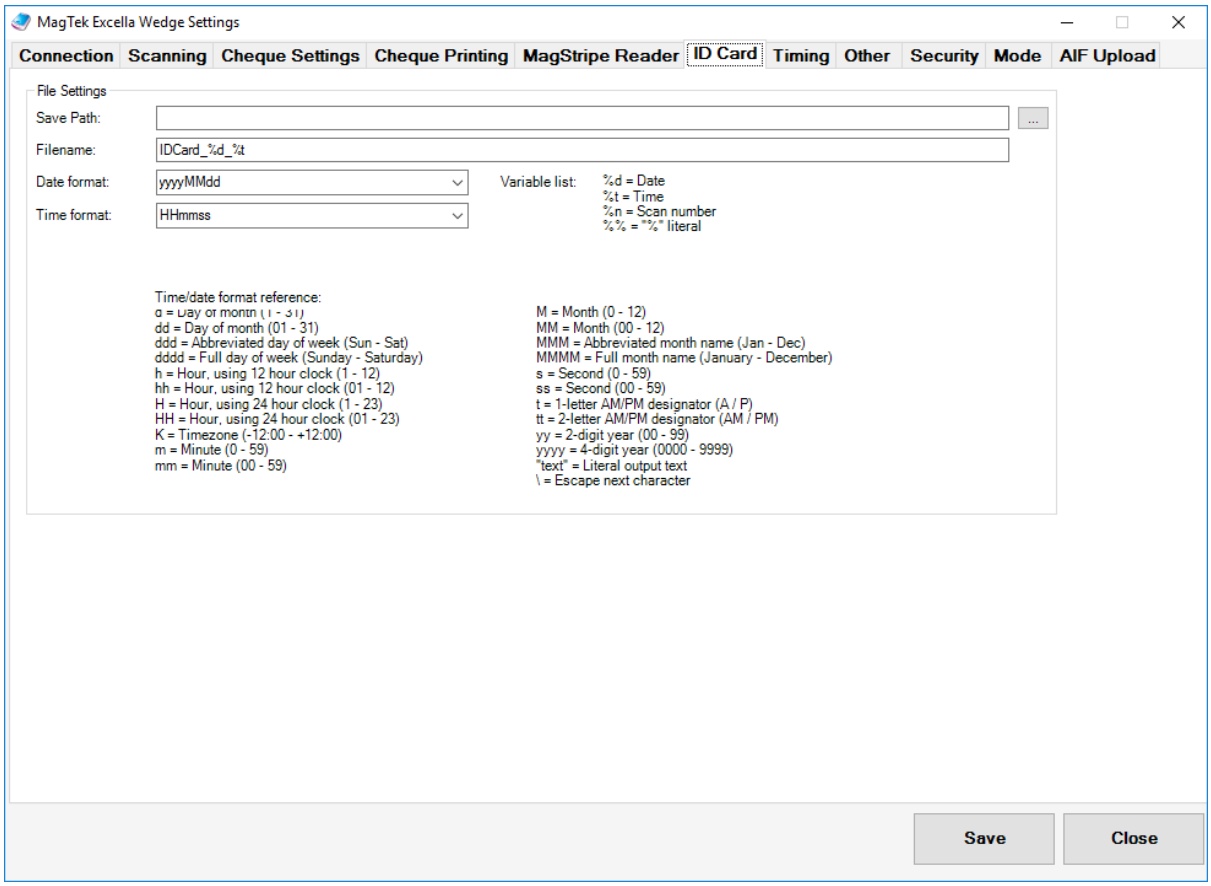
ETX: Add End-of-Text character to the end of Track data.

Card Data Msg Single: Returns Tracks Data as a single string message.

Split PAN into Acct and Issue Number: For supported cards, splits out the card account number and card issue number into tap-separated values.

Enable Duplicate Read Detection: When checked, any new MagStripe reads are compared against the last 5 reads. If a duplicate swipe is detected, the operator in notified.

7.7. ID Card



Some supported MagTek Excella image scanner devices have the ability to scan ID cards, such as driver licences. Scan settings for these cards are configured on this screen.

7.7.1. File Settings

Here users specify the path to save scanned ID card images. Users may also specify the filename format and use variables for dynamic file names.

N.B. The image format is the same for ID cards as it is for cheque MICR line. Changing the cheque image format will also change the image format for ID cards.

7.7.2. Variables

Image filenames may contain variables. These variables in the filename are replaced when saving the image. The variables you may use are:

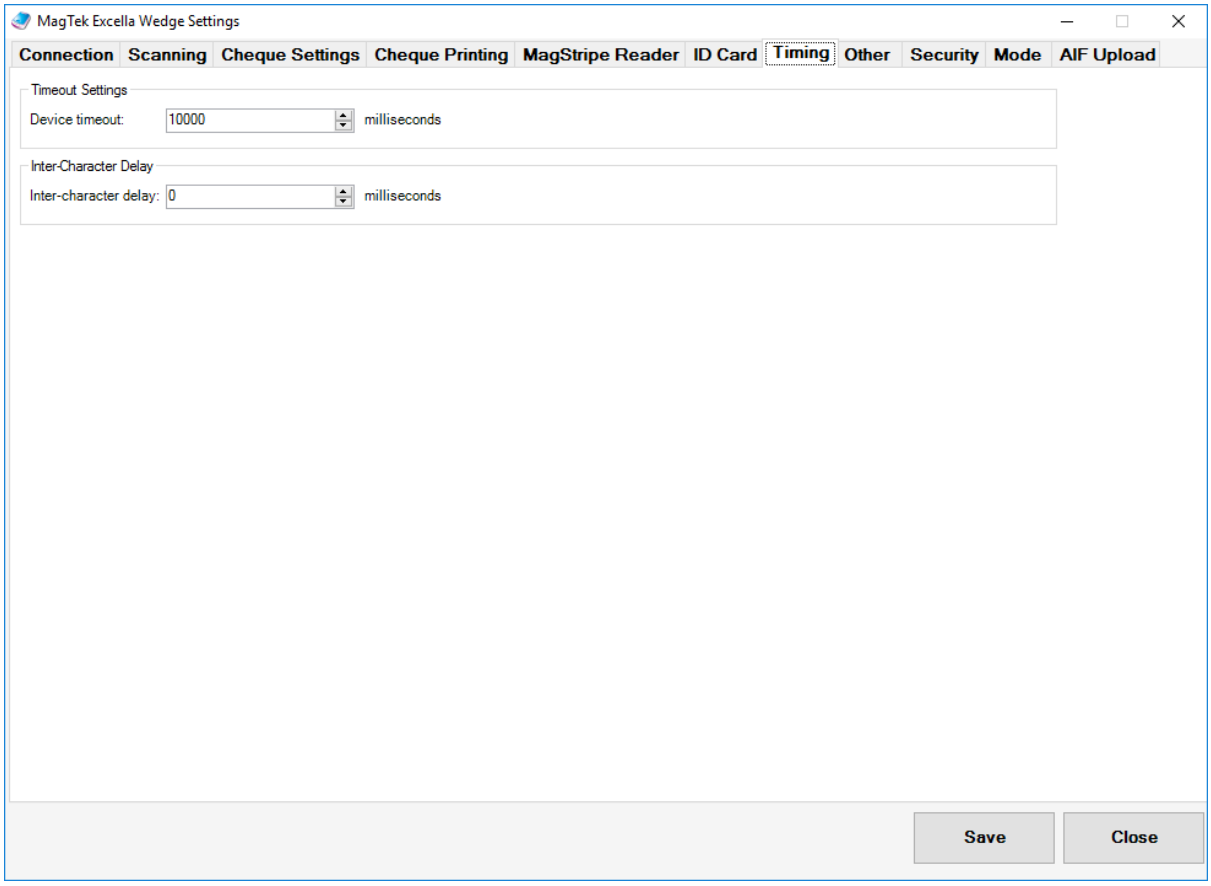
- %d Date (format configurable)
- %t Time (format configurable)
- %n Document/sequence number (based on number of scanned documents to date)

The date and time format is fully customizable. Common date/time formats may be chosen from the drop-down boxes, or a custom date/time format may be entered using the format reference.

If the user needs to use a “%” character in the print message, then it is necessary to use “%%” instead in the specified string. Each “%%” combination will be converted to “%” when printed. If you

do not use “%%”, any “%” symbols may be interpreted as variables which may not produce the desired insertion character.

7.8. Timing



This tab is where the device timings are specified.

7.8.1. Timeout Settings

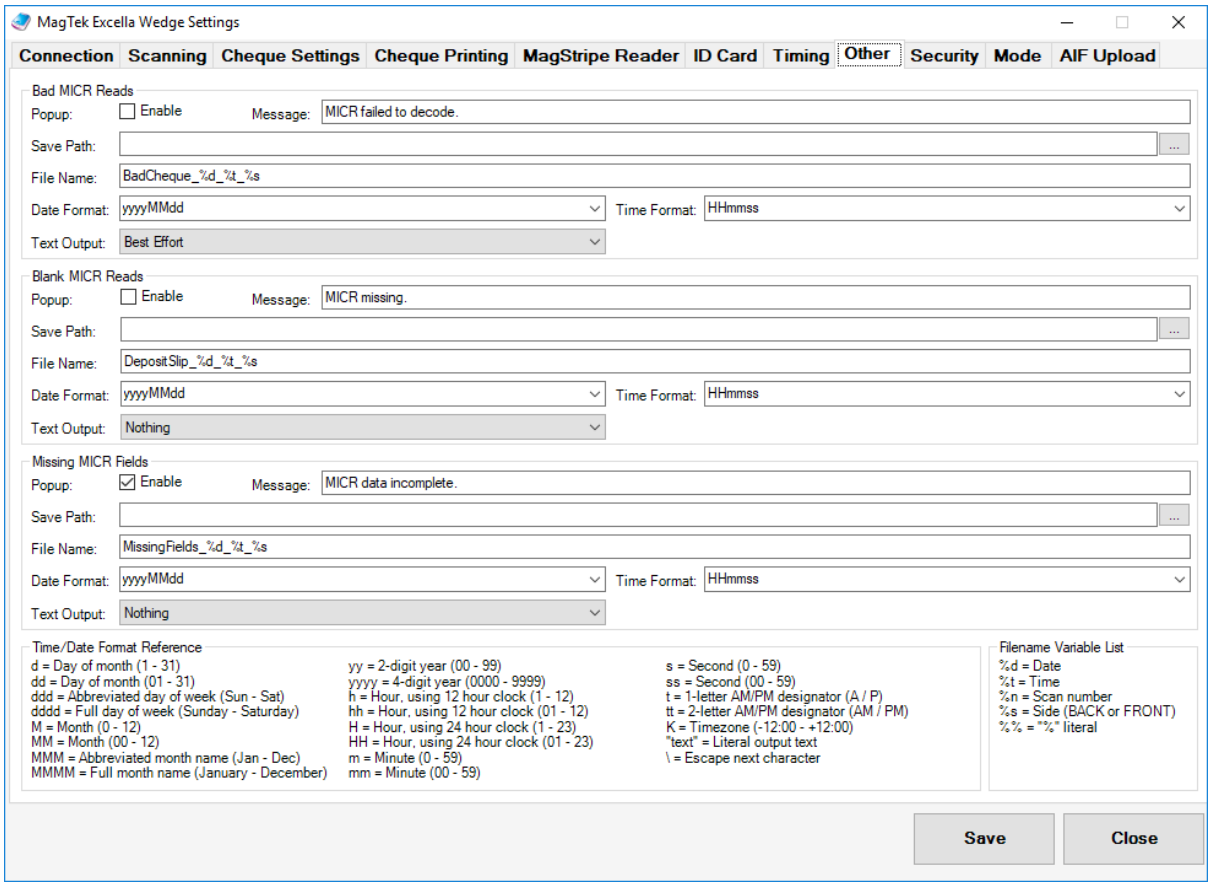
Device timeout determines how long the application will wait for a response from the device before it decides the device is no longer responding.

7.8.2. Inter-Character Delay

Inter-character delay specifies how long to wait between each output keystroke. Some systems require a small delay between keystrokes, others do not. Setting this value to zero causes the Excella Wedge to output keystrokes to the system in one large batch.

If you need maximum speed (E.g. batch processing with Excella in express mode), set this value to zero. If you have problems with keystrokes being output to the wrong field, or characters transposing in the output, you may need to increase this value.

7.9. Other



Cheques have a series of machine-readable characters on the bottom front of the document, called the MICR. These characters are read magnetically as they have been printed on the cheque with magnetic ink for security reasons.

This configuration screen allows you to configure a response to documents with bad MICR reads, as well as documents with no MICR digits.

N.B. If a cheque is read, and then a Bad or Blank MICR Read is detected and notified by the wedge utility popup on-screen message to the user, then security practices should be implemented to immediately suspect possible fraudulent activity. The cheque should be referred to a supervisor for a decision on action to determine if the cheque has been modified or may be only a photocopy of a real cheque.

7.9.1. Bad MICR Reads

This configuration section comes into play when a cheque is scanned and the device is unable to decode the MICR line correctly. The MICR line exists, but some of the characters fail to decode.

7.9.2. Blank MICR Reads

This configuration section comes into play when a cheque is scanned and the device does not detect a MICR line at all. This can happen when scanning documents other than cheques.

7.9.3. Missing MICR Fields

This configuration section comes into play when a cheque is missing required MICR fields, including BSB, account, and cheque number. This can happen if the MICR line does not decode correctly, or this data was not printed on the cheque with magnetic ink.

7.9.4. Configuration Options

For each of the sections above, many configuration settings can be specified.

On the first line, the administrator may enable/disable a specified popup message to the operator. This message will be shown as a balloon popup in the system tray, and will disappear after 10 seconds.

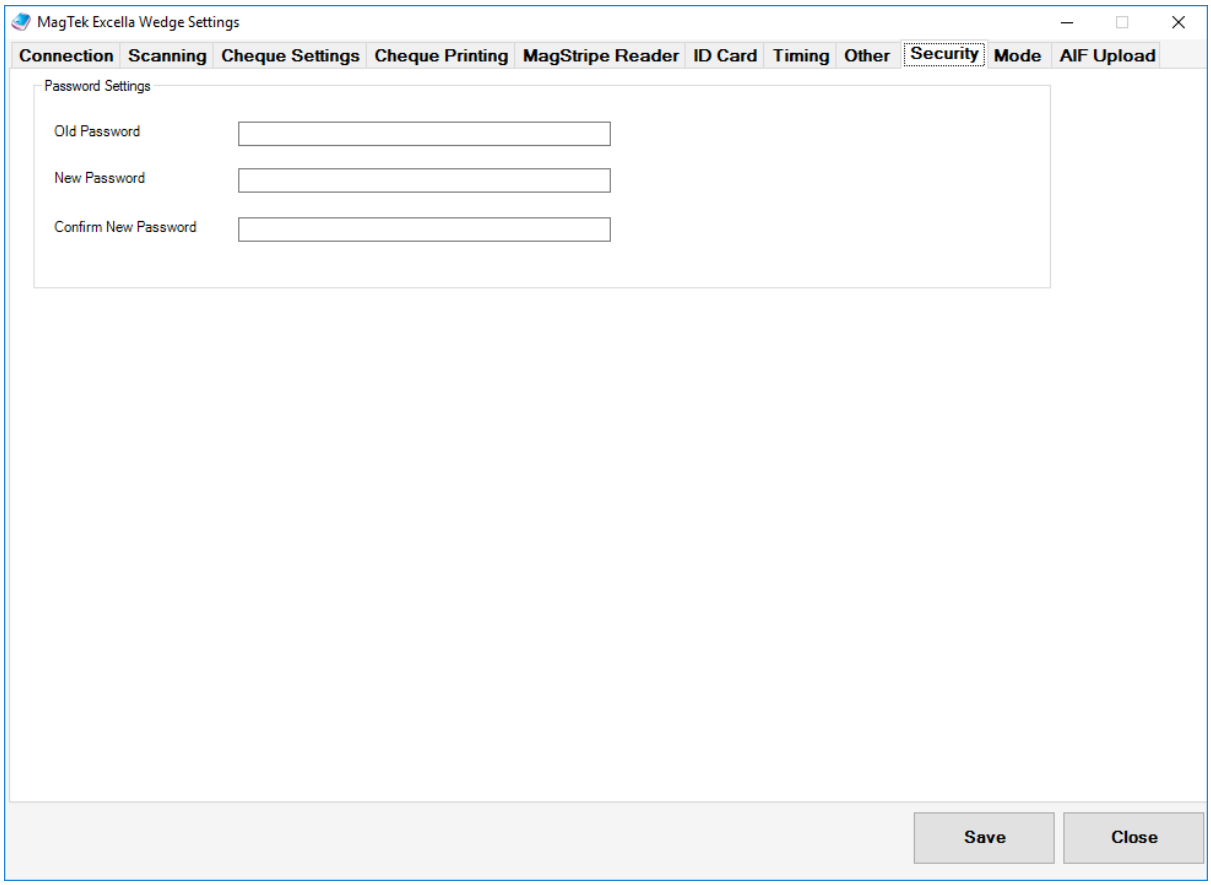
The next three lines deal with an alternate image save location/filename. Configuration here is the same as configuration on the MagStripe Reader tab.

The last line is the Text Output option. This configuration field has four possible values:

- Nothing – Do not output any keystrokes at all. Just save the image.
- Blank Fields – Format and output keystrokes as normal, only using blank, zero-length values.
- Value Only – Format and output keystrokes as defined in the “Value Format” field in the Cheque Settings tab. Ignores the other format fields/final format.
- Best Effort – the wedge utility will do it’s best to decode the MICR line and output keystrokes, even if that means outputting garbage.

•

7.10. Security



This tab is where the settings password for the wedge utility may be changed.

For security access control reasons the configuration screen is password protected, so the user will always be prompted to enter the password when the configuration screen option is selected.

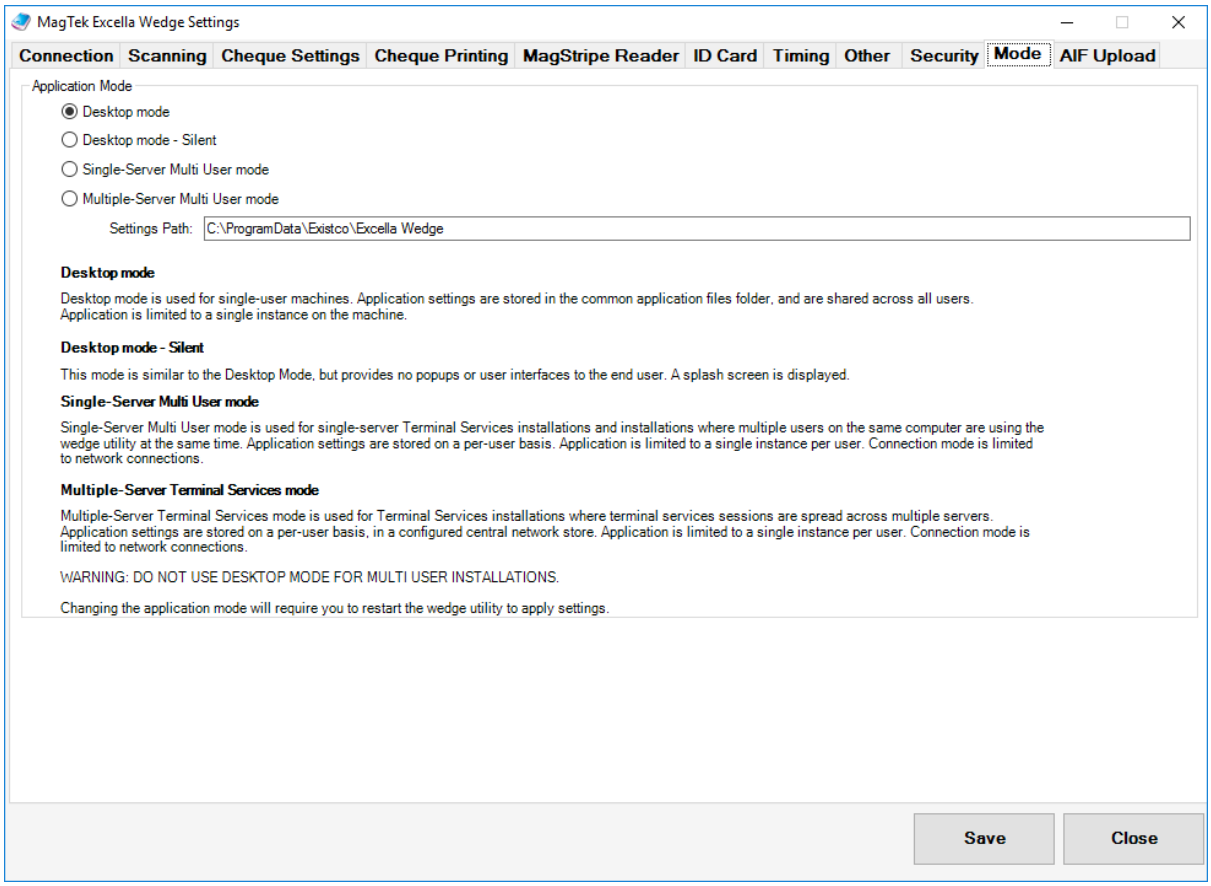
Passwords are case sensitive.

The wedge utility initial default password is !MagTek#

N.B. It is highly recommended that this default password be changed by the system administrator immediately after initial installation. See the “Security” configuration section, later in this manual, for details on how to change the password.

To change the setup or default password, enter the old password, and then enter the new password twice and then hit “Save” to verify the password and save the changes.

7.11. Mode



The wedge utility can be run in one of two modes: Desktop Mode or Terminal Services Mode. To change modes, the wedge utility must be restarted after changes have been selected.

7.11.1. Desktop Mode

Desktop mode is the standard default mode that the wedge utility runs in. It is designed for single-user installations where only one user will be logged on to a computer at any one time and the MagTek supported Excella image scanner device is locally connected by USB to the computer.

7.11.2. Desktop Mode – Silent

Desktop Mode Silent works in a similar fashion to Desktop Mode, except there will be no tray icon visible, and no popups will be shown. There is also a two-second splash screen upon start-up to inform the user that the wedge has started. In this mode, configuration and closure of the wedge utility can be achieved by using the command line client (see Appendix B).

7.11.3. Single-Server Multi User mode

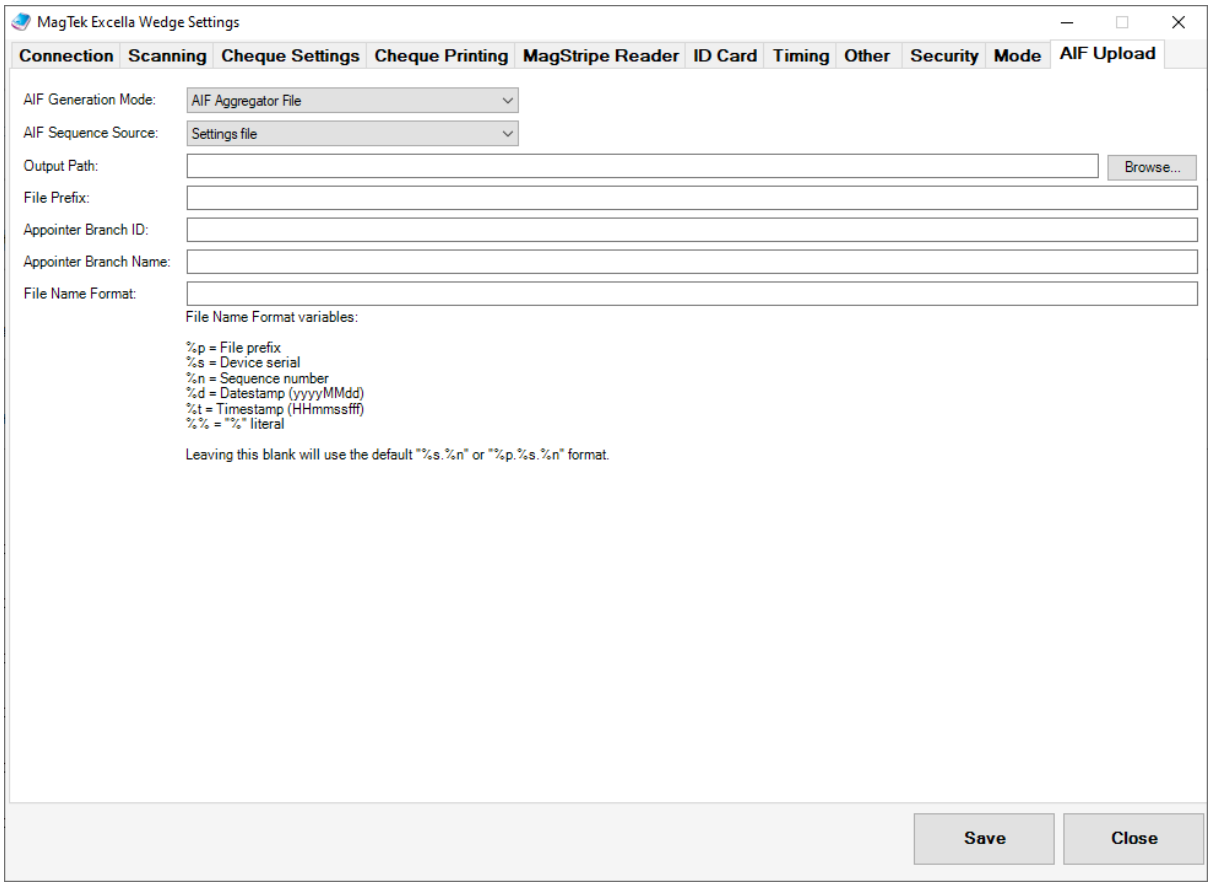
This mode is for installations running on any multi-user system, like Terminal Services generally with remote thin client terminals.

7.11.4. Multi-Server Multi User mode

This mode is for installations running multiple terminal services servers, for instance in load-balancing setups.

For more information on Terminal Services, refer to the Terminal Services Mode section in this manual.

7.12. AIF Upload



The AIF Upload feature allows scanned cheque information to be saved for submission to the bank. XML files are saved to the configured path, containing data formatted for the ANZ Appointer Image File (AIF) format ITEM records.

Note that both the AIF Enabled checkbox, and cheque amount capture, must be enabled in order to generate AIF ITEM records.

WARNING	As of version 4.5.2, the wedge utility adds a signature to the AIF file to prevent tampering and corruption. Newer versions of the Aggregator require this signature. If upgrading your Aggregator, please upgrade your Excella Wedge at the same time.

7.12.1. AIF Generation Mode

This dropdown chooses what format the created AIF files are in.

Disabled will not generate any AIF files.

Raw AIF Data will generate properly formatted AIF item records for consumption in a customer-implemented AIF process.

AIF Aggregator File will generate a file to be consumed by the MagTek AIF Aggregator.

7.12.2. AIF Sequence Source

This dropdown specifies where the wedge will get its AIF sequence numbers from.

Settings File is the default setting and will store the AIF sequence counter in the wedge's settings file.

External File will store the AIF sequence number in an external file, outside the settings file. This is useful for environments where the settings file may change from outside the wedge utility.

7.12.3. Output Path

This box specifies where the AIF XML files will be stored. When AIF is enabled, every cheque and deposit slip scan will generate an AIF ITEM record in this folder.

In AIF Aggregator mode, this is the directory in which to store intermediate AIF data files for use with the AIF Aggregator. For more information, please contact your MagTek Support Centre.

7.12.4. File Prefix

This setting will add a prefix to the generated AIF file names. This is useful for quickly determining where an AIF file was generated. This setting is optional.

7.12.5. Appointer Branch ID

This is where the appointer's BSB needs to be entered. This value is required in the "Raw AIF Data" mode, but not required in "AIF Aggregator File" mode. If specified in the aggregator mode, this value will override the value configured in the aggregator.

7.12.6. Appointer Branch Name

The appointer's branch name must be entered here. This value is required in the "Raw AIF Data" mode, but not required in the "AIF Aggregator File" mode. If specified in the aggregator mode, this value will override the value configured in the aggregator.

7.12.7. File Name Format

The file name structure of saved AIF aggregation files can be controlled. By default, the wedge utility will use a filename format compatible with older version of the wedge. However, you may specify a custom naming structure for aggregator files. Use the variable substitutions listed on that page to construct a filename template.

7.12.8. Scan-Only Operation

The primary purpose of the Excella Wedge is to output keystrokes to a banking application. However, this can be disabled, and the Wedge operated in a pure capture/aggregation mode.

To do this, text output must be disabled in two places.

Under the "Cheque Settings" tab, disable all the "Fields in-use" checkboxes. This will clear the MICR output to be blank.

Fields in-use

- [ ] Cheque No
- [ ] BSB
- [ ] Account No
- [ ] Value

Under the “Other” tab, all three drop-down boxes must be set to “Nothing”. This disables output for bad and missing MICR lines.

Bad MICR Reads

Popup: [ ] Enable Message: MICR failed to decode.

Save Path: E:\Excella Files\Scans

File Name: BadCheque_%d_%t_%s_%h

Date Format: yyyyMMdd T

Text Output: Nothing

Blank MICR Reads

Popup: [ ] Enable Message: MICR missing.

Save Path: E:\Excella Files\Scans

File Name: DepositSlip_%d_%t_%s_%h

Date Format: yyyyMMdd T

Text Output: Nothing

Missing MICR Fields

Popup: [x] Enable Message: MICR data incomplete.

Save Path:

File Name: MissingFields_%d_%t_%s

Date Format: yyyyMMdd T

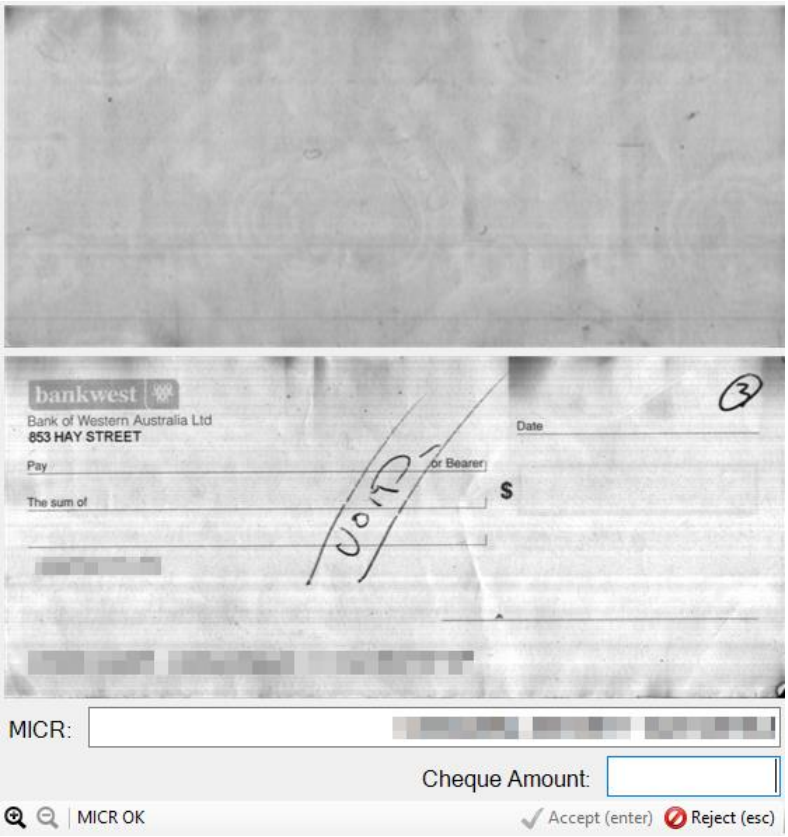
Text Output: Nothing

Once these options are set and saved, the Wedge should not be able to output any text to the active application. Image/MICR saving, and AIF aggregation, will still work.

8. Cheque Preview

By checking the Enable Preview box in the Scanning tab, the wedge will display a preview window, showing the cheque front, and optionally the cheque back. This allows the operator to visually inspect the scanned cheque image for defects and acceptable quality level before accepting the scan.

The cheque preview window will also allow the operator to enter the cheque amount.



8.1. Preview Panels

Depending on the configuration set, the image preview window will show one or two preview panels. These panels show the cheque image(s) captured by the Excella device.

8.2. MICR Line

If the “Allow MICR Editing” checkbox in the Wedge configuration is checked, the operator will be allowed to edit, and repair, the MICR line. This is useful if the MICR line is not captured correctly.

8.3. Cheque Amount

If enabled in the configuration, the operator will be required to enter a cheque amount before accepting the cheque scan. This cheque amount will be saved in a text file alongside the saved cheque images, if configured.

The cheque amount may also be used as an output field in the cheque output configuration. By using the field prefixes/suffixes, the value can be inserted in the appropriate location in your teller system.

8.4. Zoom Buttons

The zoom buttons, at the lower left of the preview window, allows the operator to zoom in on the cheque image, at a 1:1 pixel ratio. The operator may then pan around the preview image(s) to inspect various parts.

8.5. Accept/Reject

The Accept and Reject buttons will accept or reject a cheque scan.

If the scan is good, and (optionally) the cheque amount is entered, the operator can hit Enter on their keyboard to accept the scan.

Otherwise, the operator may hit Escape on their keyboard, or click the Reject button, to abort the scan.

9. Terminal Services Mode

Normally, the wedge utility runs in the default Desktop Mode which is designed for single-user installations, where only a single user will be logged on to a computer at one time using a single MagTek Excella device connected via USB interface.

For multi-user installations (for example, a Windows Server installation running Terminal Services), where MagTek Excella image scanner devices are connected via Ethernet connection to the host network, then one of the Terminal Services modes must be enabled.

The Terminal Services modes allow more than one user to use the wedge utility simultaneously. Each user has a copy of the base Desktop Mode settings upon first use of the wedge utility. However, cheque formats are shared exactly the same between ALL users, and should be configured before enabling Terminal Services mode.

When running in Terminal Services Mode, USB connectivity is disabled. Network connection must be used instead and the supported MagTek Excella image scanning device must be connected to the network via the Ethernet TCP/IP interface.

Note that only the MagTek STX and Excella multi-fee devices support network connectivity. The MagTek ImageSafe device cannot be used in Terminal Services Mode.

9.1. Setting Up for Terminal Services

9.1.1. Initial Setup

After initial installation of the wedge utility, it will be running in Desktop Mode. While in this mode, all cheque settings and settings to be populated to all users should be configured and tested. See the sections above for information on how to configure the wedge utility.

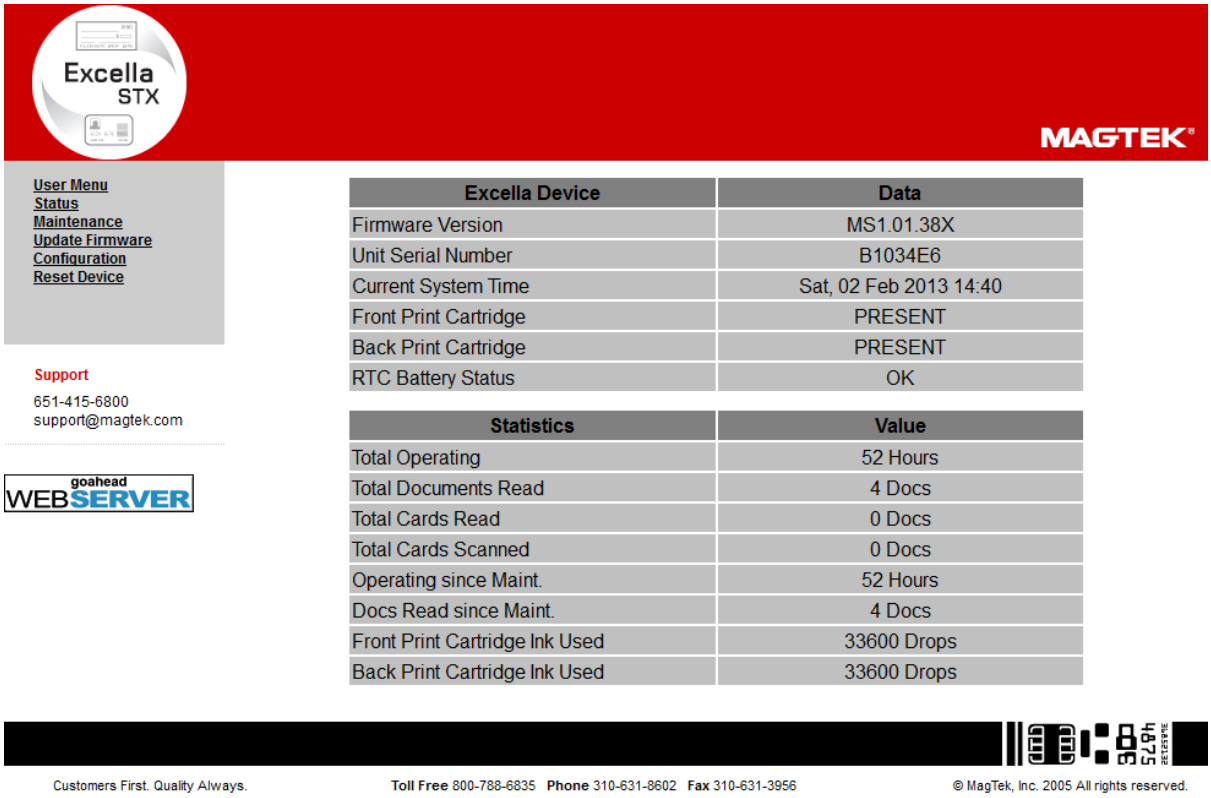
9.1.2. Device Setup

The next step is to assign IP addresses to each MagTek Excella image scanner device.

Connect the MagTek Excella image scanner device either directly to your computer using an Ethernet cable, or to your network. Ensure you are able to reach the 192.168.10.0/24 subnet.

At this point, it may be advantageous to configure the wedge utility (while in Desktop Mode) to connect to the supported MagTek Excella image scanner device's default IP address. This way, each device can be registered and activated on the Desktop Mode profile before being duplicated to all Terminal Services Mode users.

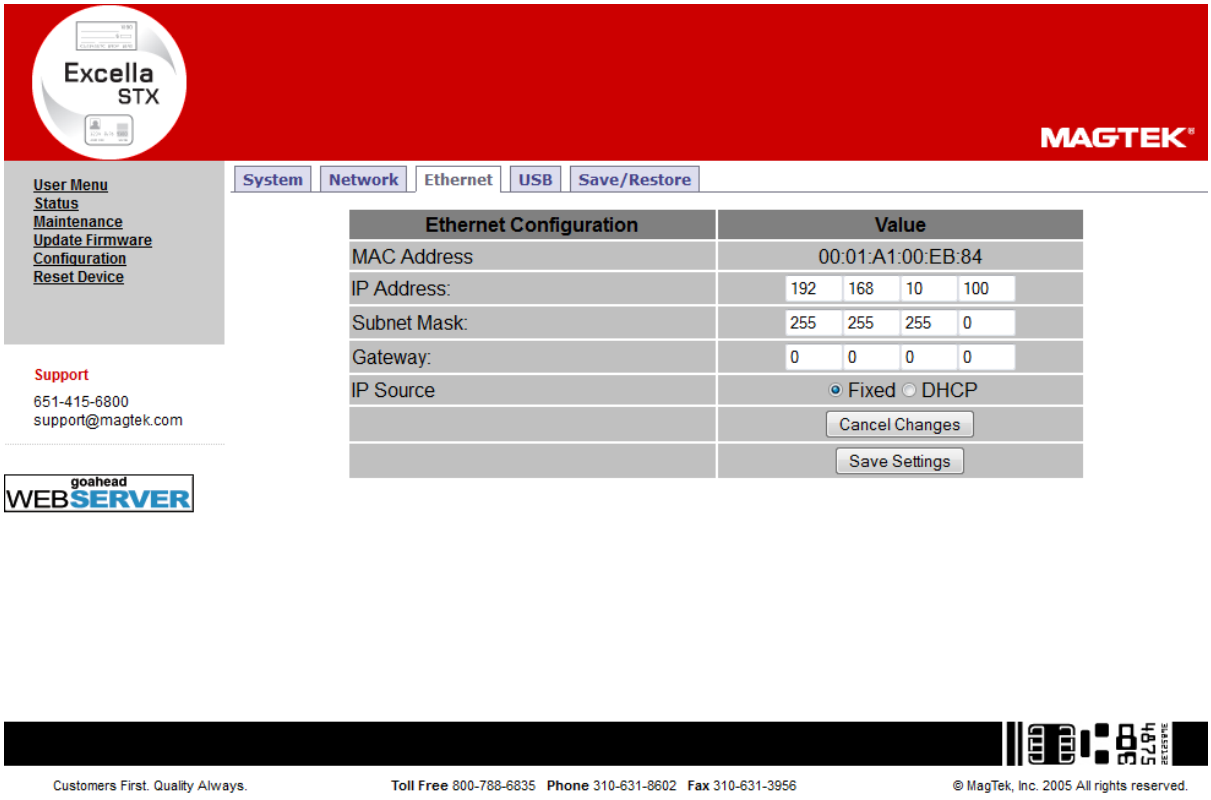
Open the web browser and navigate to http://192.168.10.100/ to access the MagTek Excella image Scanner device's configuration screen.



Excella Device	Data
Firmware Version	MS1.01.38X
Unit Serial Number	B1034E6
Current System Time	Sat, 02 Feb 2013 14:40
Front Print Cartridge	PRESENT
Back Print Cartridge	PRESENT
RTC Battery Status	OK

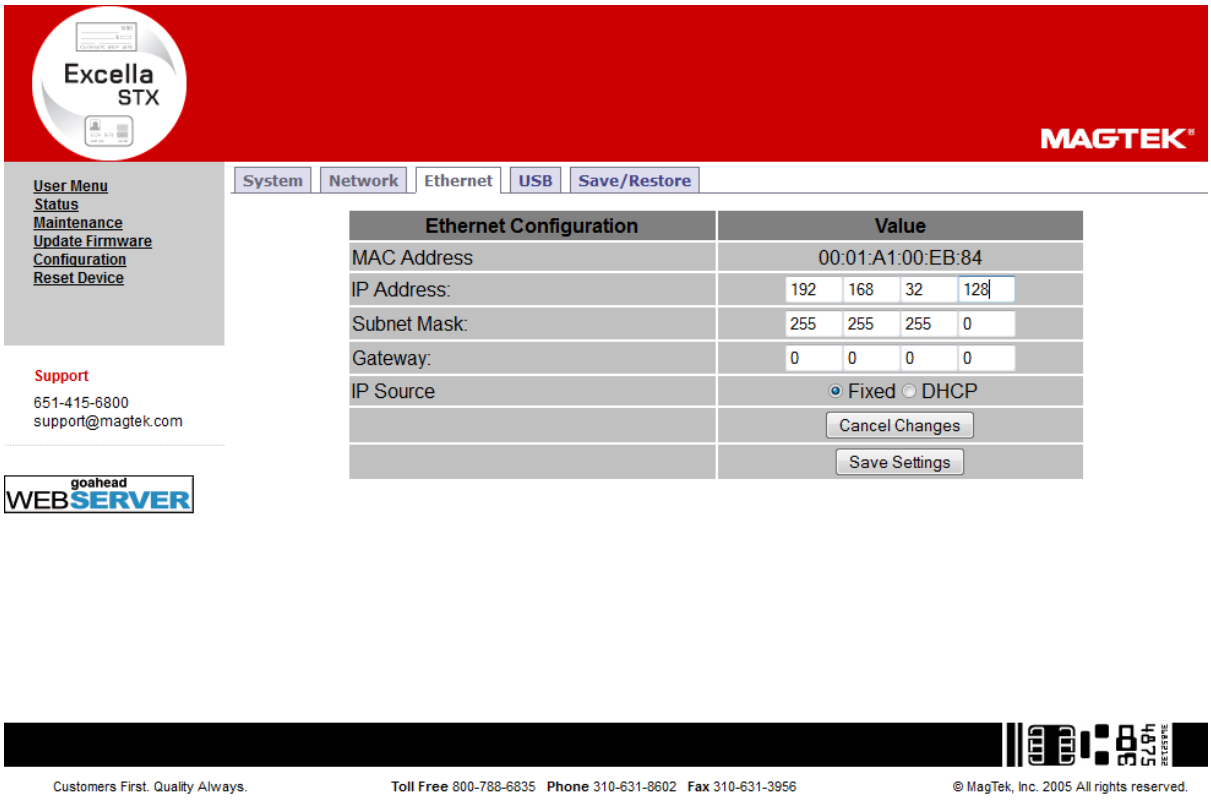
Statistics	Value
Total Operating	52 Hours
Total Documents Read	4 Docs
Total Cards Read	0 Docs
Total Cards Scanned	0 Docs
Operating since Maint.	52 Hours
Docs Read since Maint.	4 Docs
Front Print Cartridge Ink Used	33600 Drops
Back Print Cartridge Ink Used	33600 Drops

On the menu on the left, click the “Configuration” link to open the device configuration screen. Ensure that the Ethernet tab is selected.



Ethernet Configuration	Value
MAC Address	00:01:A1:00:EB:84
IP Address:	192 168 10 100
Subnet Mask:	255 255 255 0
Gateway:	0 0 0 0
IP Source	Fixed DHCP
	Cancel Changes
	Save Settings

Set the IP Source setting to Fixed. Enter the device's allocated IP address in the IP Address fields and optionally set the subnet mask as needed.



Click Save Settings to save the IP address settings to the device, then click the Reset Device link in the menu on the left.

You may now unplug the MagTek Excella image scanner device from your computer/network. For any remaining devices that need to be configured, connect each one as above and repeat the steps to configure each device with its assigned IP address.

9.1.3. Switching to Terminal Services Mode

Once all the devices have been provisioned and (optionally) registered, switch the wedge utility to Terminal Services Mode by opening the wedge utility configuration screen, selecting the Mode tab, clicking one of the Terminal Services options and hitting Save.

Note that it is necessary to completely exit the wedge utility to switch to the new mode.

9.1.3.1. Single-Server Multi User mode

In this mode, application settings are stored for each user in a machine-wide local configuration store. Cheque settings and configured device lists are shared between all users.

9.1.3.2. Multi-Server Multi User mode

In this mode, application settings are stored for each user in a configured store location. Standard usage is for this store location to be located on a network share. This share location may be re-used

by multiple servers so user settings will the same on each server. Cheque settings and configured device lists are shared between all users.

9.1.4. Configuring Users

Each user must have their connection configuration set under their account.

Log in as the user required to be configured. Open the wedge utility configuration by right-clicking on the wedge utility tray icon and selecting “Configuration…” from the popup menu. Configure the connection settings by selecting “Network” and entering the IP address of the desired device. Click Save, close the configuration screen and log out of the user’s account.

9.1.5. Large Installations

For large installations, device registrations and user connection settings can be pre-generated and provided to the end user. This is a non-standard configuration technique.

Contact your MagTek Support Centre for more information.

10. Remote Installations

Some business environments prefer to deploy the wedge utility remotely. The exact method which this should be done varies with different topologies. First, we will describe some basics of remote deployment. Following that, we will describe specific deployment scenarios.

10.1. Bulk Configuration

The recommended method for configuring the Excella Wedge is to create a default, installation-wide configuration that can be replicated to each terminal when the new software is installed.

First, install the Excella Wedge on a computer, and configure the application settings how you want. Take note of which cheque and MSR format you choose.

Note that it is a bad idea to save cheque images to the local hard drive on an embedded terminal. Cheque images may be saved to a mapped drive or UNC path by setting the Scanned Image Settings Path in the Cheque Settings tab. A mapped drive is the recommended method of saving cheque images in this configuration. If cheque images are not required, you may leave the Path and Name fields blank on this page.

10.2. Bulk Device Licencing

When setting up the Excella Wedge for bulk installations, you have a few different options for applying device licences.

The best option is to pre-licence all devices, before pushing the settings out to all terminals. This is done via the Device Licence Editor. You may add new licences, delete existing licences, or import licences from a CSV file.

The second option is to licence each device on each terminal after installation. This method requires the operator or administrator to enter the licence key for the device attached to the terminal.

10.3. Preparing for Deployment

Once you have configured the options you want to use, you will need to copy three configuration files to deploy with the application. These file are:

- Settings.xml
- The cheque format “Format.imagesafe” file, from the “Predefined Formats” folder
- The chosen MSR format “.imagesafe” file, from the “Predefined MSR Formats” folder

Depending on your chosen application mode and operating system, the configuration files will be located in one of three locations.

Excella Wedge Mode	**Location**
Desktop mode (regular/silent)	*%ALLUSERSPROFILE%*/Existco/Excella Wedge
Single-Server Multi User mode	*%APPDATA%*/Existco/Excella Wedge
Multiple-Server Multi User mode	The configured network path

You will need to deploy these settings files into a temporary directory on the remote computer, in order to upload the configuration to the Excella Wedge.

10.4. Deploying

The wedge utility is deployed using the software deployment system implemented at your company. The actual method of how this is done is outside the scope of this document, however the basic steps are outlined below.

1. Push the Excella Wedge installer to the terminal, and install.
2. Start the Excella Wedge.
3. Push your pre-configured settings and format files to a temporary location on the terminal.
4. Execute the ExcellaCmd tool to upload the new configuration to the Excella Wedge. A delay may be required to allow the Excella Wedge to start up before executing this step.

The format for the ExcellaCmd step is as follows:

```
EXCELLACMD SETCONFIG settings.xml chequeformat.imagesafe msrformat.imagesafe
```

This command will upload and apply your configuration to the Excella Wedge utility.

You will likely need to use absolute paths for the ExcellaCmd command, and for the configuration files. Remember to enclose full paths in quote marks, particularly if the full path contains spaces. The configuration files may be located on a mapped network drive or UNC path.

If the settings.xml file contains pre-licenced devices and was not applied before the Excella Wedge opens the USB cheque reader, the user may need to restart the wedge utility. Alternatively, the deployment system may do this by shutting down the Excella Wedge, using the command "`EXCELLACMD EXIT`", and starting the wedge again.

10.5. USB Terminal Installations (Citrix, Remote Desktop, etc…)

In this kind of installation, the Excella device is connected to an Embedded Windows-based terminal via USB. Keystrokes are generated by the Excella Wedge, and are sent to the terminal OS, which in turn sends keystrokes to the terminal session. In this configuration, settings will be stored on the terminal hard drive.

First step is to generate your desired configuration and licencing, as per sections 8.1 and 8.2 above, and obtain your configuration files, as per section 8.3. The wedge should be in "Desktop mode" or "Desktop mode – silent".

Next step is to set up your deployment system to push the software and configuration files to your machines, as per section 8.4 above.

10.6. Network Terminal Installations (Citrix, Remote Desktop, etc…)

In this installation, the Excella device is connected to the local LAN. The Excella Wedge is installed on an Embedded Windows-based terminal, and will connect to the Excella device over the network. Keystrokes are generated by the Excella Wedge, and are sent to the terminal OS, which in turn sends keystrokes to the terminal session. In this configuration, settings will be stored on the terminal hard drive.

In this scenario, the configuration will need to be tailored to each terminal, as each terminal will connect to a device on a different network address.

WARNING: Never point two terminals at the same networked Excella device. This can cause unpredictable behaviour, and may cause the wedge or device to freeze.

First step is to generate your desired configuration and licencing, as per sections 8.1 and 8.2 above, and obtain your configuration files, as per section 8.3. The wedge should be in “Desktop mode” or “Desktop mode – silent”.

Advanced system administrators comfortable with scripting may edit the settings.xml file directly or with a script to fill the Excella device network address for each installation. The network address is stored in the “ConnectionNetworkName” XML element.

Next step is to set up your deployment system to push the software and configuration files to your machines, as per section 8.4 above. The deployment system may also modify the settings.xml file as per the paragraph above, before uploading the configuration to the Excella Wedge with the ExcellaCmd tool.

10.7. Single-Server Network Terminal Host Installations

In this installation, the Excella device is connected to the local LAN or VPN. The Excella Wedge is installed on the terminal host machine, under the user profile, and will connect to the Excella device over the network. Keystrokes are generated by the Excella Wedge, and are sent to the connected user session.

In this scenario, the configuration will need to be tailored to each user, as each user account will connect to a configured network address. This is best achieved when the same user is used on the same remote terminal, as each user will use a specific Excella device.

WARNING: Never point two users at the same networked Excella device. This can cause unpredictable behaviour, and may cause the wedge or device to freeze.

Setting this up is easier than previous scenarios.

First step is to generate your desired configuration and licencing, as per sections 8.1 and 8.2 above. Initially, the wedge should be in “Desktop mode”, and the connection should be left as “USB”. You may also set up named network devices, to make device selection easier.

After the default configuration has been created, the wedge should be configured to “Single-Server Multi User mode”. This will cause the wedge to copy the default configuration to each new user that loads the Excella Wedge.

Each user will need to be manually configured with their Excella device. This is where Named Network devices comes in handy.

10.8. Multi-Server Network Terminal Host Installations

In this configuration, the Excella device is connected to the local LAN or VPN. The Excella Wedge is installed on all terminal host machines, under the user profile, and will connect to the Excella device over the network. Keystrokes are generated by the Excella Wedge, and are sent to the connected

user session. This installation type stores the user configuration on a central file server to allow portability of users between servers. This is a niche configuration, and should be used on systems where user profiles are not shared between servers.

In this scenario, the configuration will need to be tailored to each user, as each user account will connect to a configured network address. This is best achieved when the same user is used on the same remote terminal, as each user will use a specific Excella device.

WARNING: Never point two users at the same networked Excella device, and never allow two sessions to try to use the same device. This can cause unpredictable behaviour, and may cause the wedge or device to freeze.

First step is to generate your desired configuration and licencing, as per sections 8.1 and 8.2 above. Initially, the wedge should be in “Desktop mode”, and the connection should be left as “USB”. You may also set up named network devices, to make device selection easier.

After the default configuration has been created, the administrator should set the “Settings Path” in the Mode tab to point to a readable/writable network file server path. This path will be used to store user settings, and should be readable and writable by all users of the Excella Wedge.

Once the settings path is configured, the wedge should be configured to “Multi-Server Multi User mode”. This will cause the wedge to copy the default configuration to the network settings path, and each new user that loads the Excella Wedge will clone their settings from this.

Each user will need to be manually configured with their Excella device. This is where Named Network devices comes in handy.

Appendix A. Cheque Settings Detailed Example

Scenario

To configure my cheque information so that it can be displayed in the below pattern:

AccountNo<CarriageReturn>**BSBNo**<CarriageReturn>**ChequeNo**<CarriageReturn>**ChequeValue**

Conditions

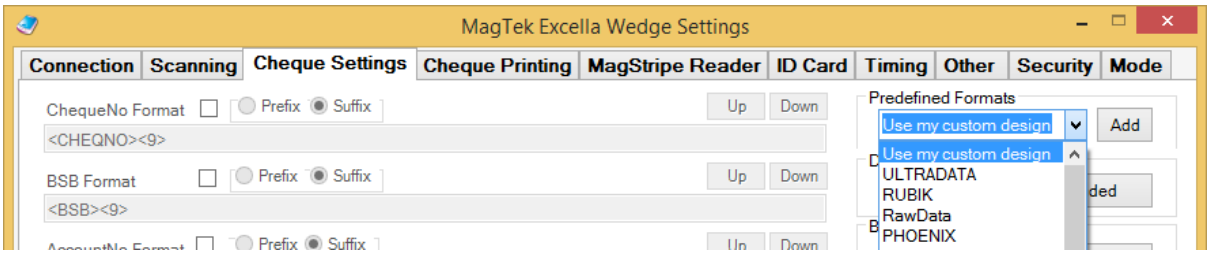
For all fields: Remove all dashes, spaces and non-digit letters.

For field AccountNo: Maximum length is 12. Add 2 of letter 'A' to front of AccountNo field.

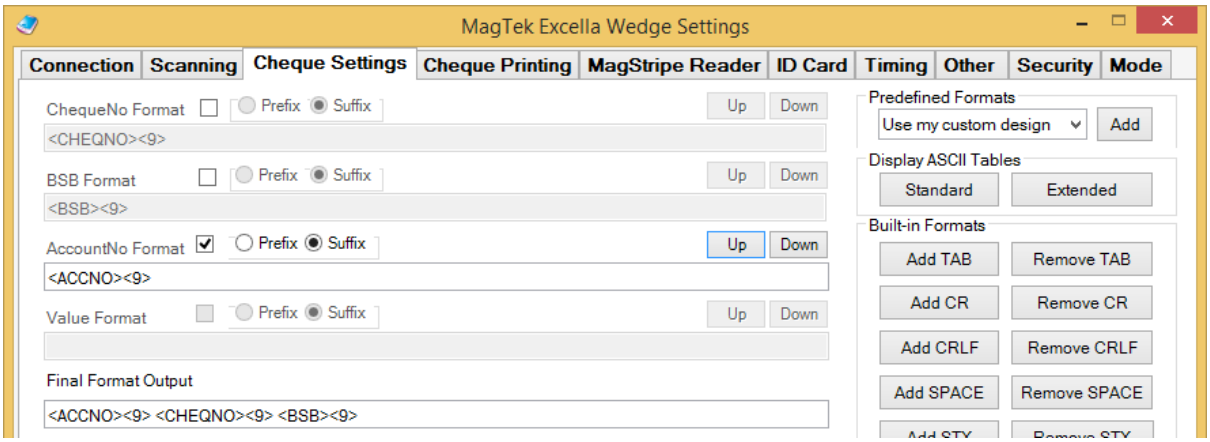
Solution

Provided that you have the interface initialized and running.

1. Under Predefined Formats section on the top right of Configuration screen, Select "Use my custom design" from Drop-Down Box.



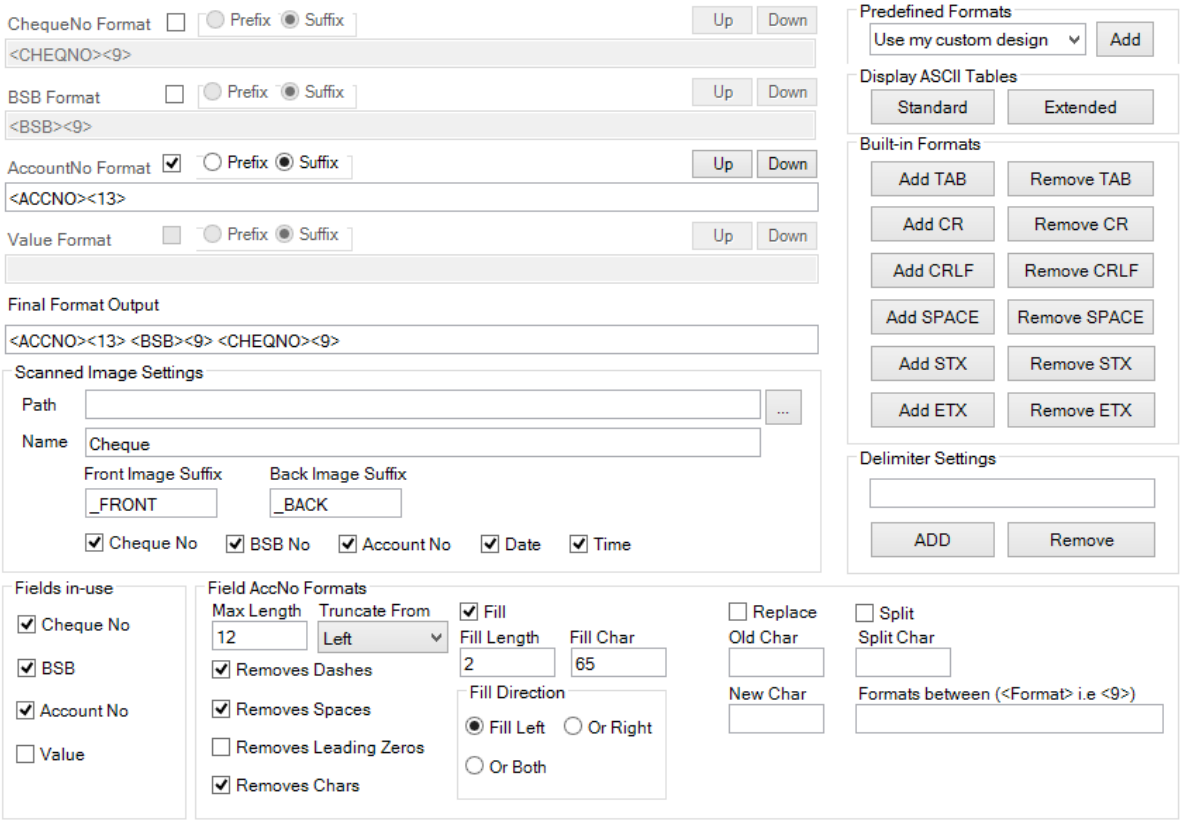
2. Select AccountNo Format checkbox to configure setting for AccountNo field.
3. Use "Up" & "Down" buttons to move AccountNo field to the first position in the format string. The format string will be updated and shown under Final Format Output Section when you are moving the AccountNo field.



4. Select BSB Format checkbox and follow Step 5 to move BsbNo field to second position if it is not there yet. Do the same thing for ChequeNo field.
5. Once all the fields are in desired order, you can start adding formats for each field.

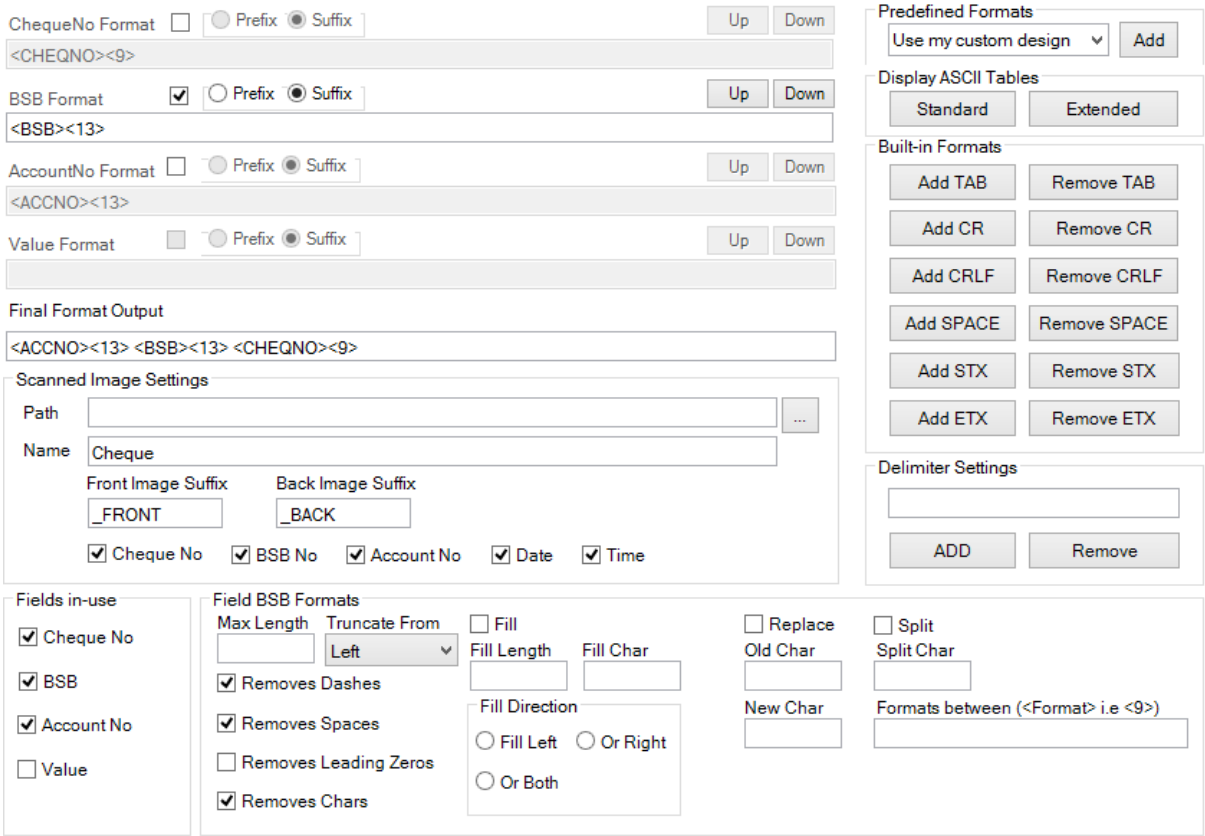
6. Select AccountNo Format checkbox -> Select Suffix/Prefix respectively to choose configure at front/end of the AccountNo field.

7. Remove its current Formats. Use Built-in Formats' Remove Buttons or You can type its current format numbers (e.g. 9) into Delimiter Settings Section and Click Remove. Do this until there is no more format numbers are attached to AccountNo field.
8. Make sure you select Suffix (to add format at the end of field) -> Click Add CR button.
9. Type 12 into Max Length field. Make sure Remove Dashes, Remove Spaces and Remove Chars checkboxes are selected.
10. Select Fill checkbox -> Type 2 into Fill Length field -> Click Standard button under Display ASCII Tables section -> Look for letter A and get its Dec value (which is 65 in this case) -> Close ASCII Table -> Type 65 into Fill Char field -> Select Fill Left option -> Click SAVE button.



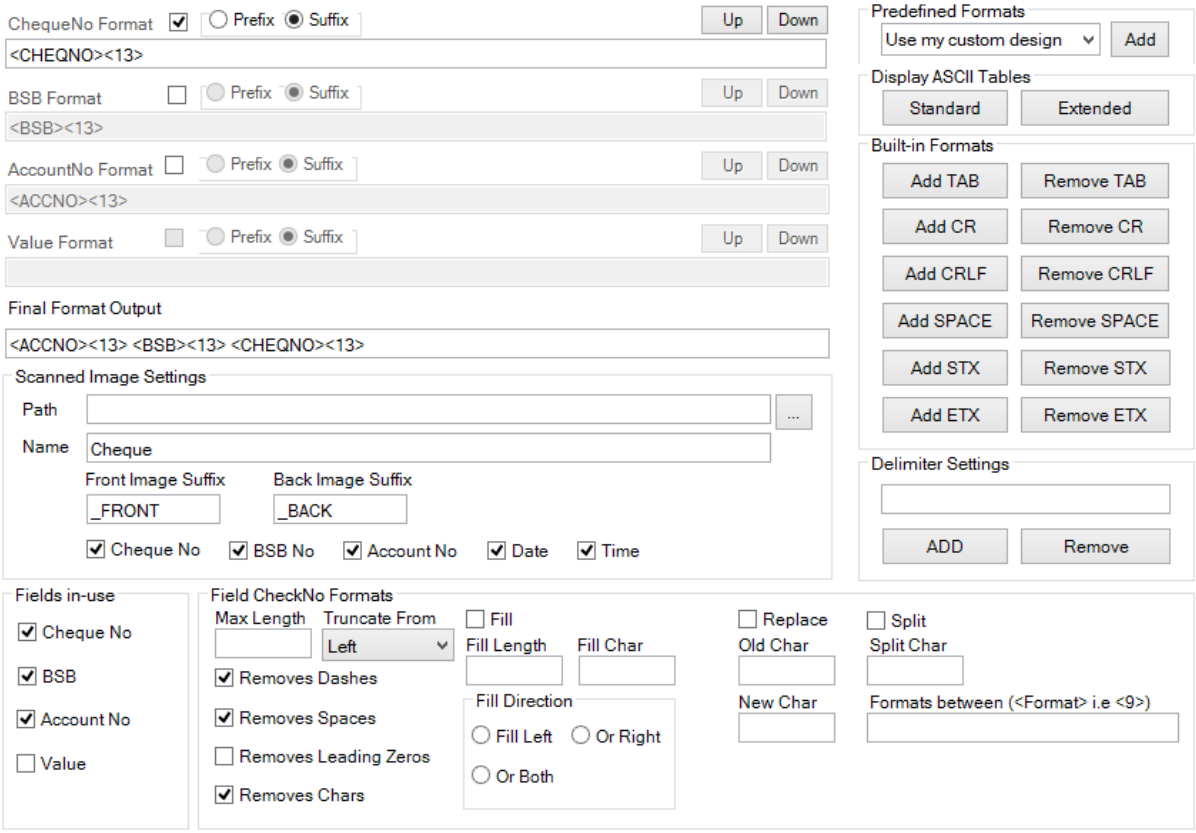
11. Select BSB Format checkbox -> Select Suffix/Prefix respectively to choose configure at front/end of the BsbNo field.
12. Remove its current Formats. Use Built-in Formats' Remove Buttons or You can type its current format numbers (e.g. 9) into Delimiter Settings Section and Click Remove. Do this until there is no more format numbers are attached to BsbNo field.
13. Make sure you select Suffix (to add format at the end of field) -> Click Add CR button.

14. Make sure Remove Dashes, Remove Spaces and Remove Chars checkboxes are selected => Click SAVE button.



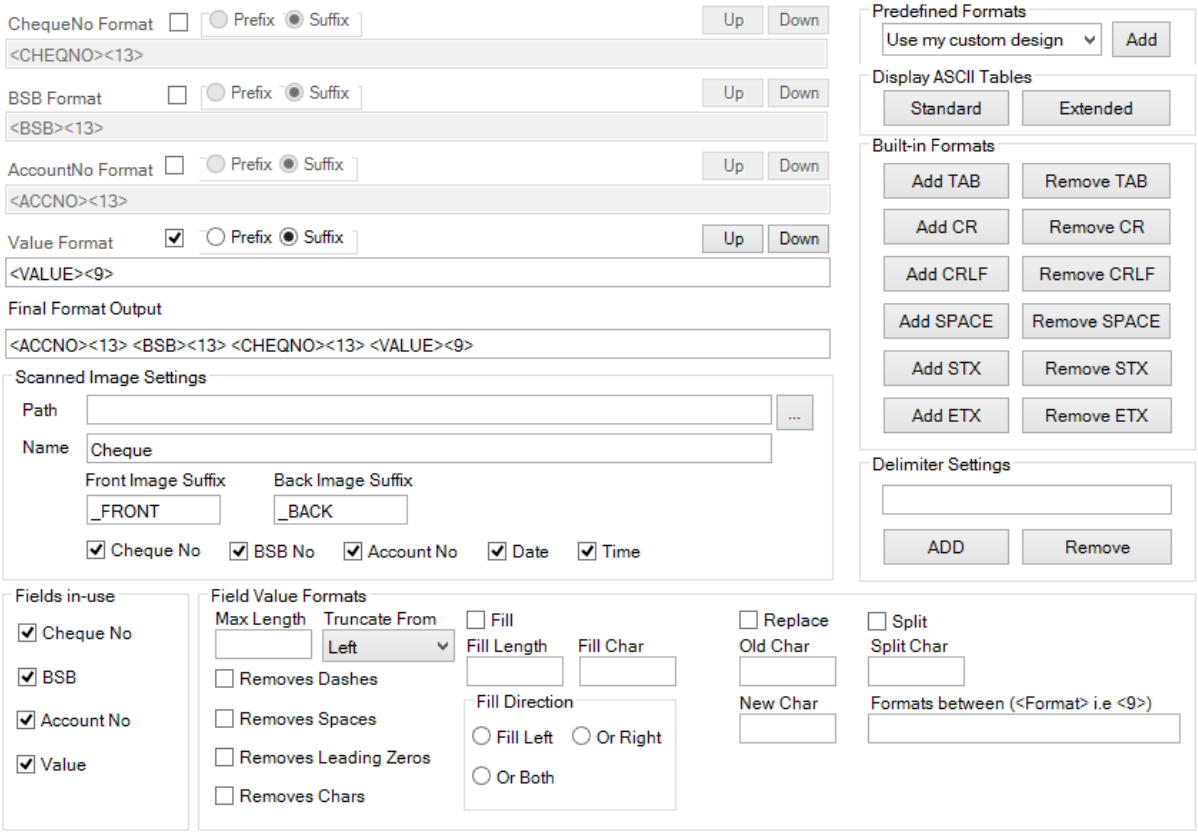
15. Select ChequeNo Format checkbox -> Select Suffix/Prefix respectively to choose configure at front/end of the ChequeNo field.
16. Remove its current Formats. Use Built-in Formats' Remove Buttons or You can type its current format numbers (e.g. 9) into Delimiter Settings Section and Click Remove. Do this until there is no more format numbers are attached to ChequeNo field.
17. Make sure you select Suffix (to add format at the end of field) -> Click Add CR button.

18. Make sure Remove Dashes, Remove Spaces and Remove Chars checkboxes are selected => Click SAVE button.



19. Add “Value” field by checking the Value checkbox in the “Fields in-use” area.
20. Select the “Value Format” checkbox to edit the value field.
21. Use the Up/Down buttons to move the field to the end of the final format, if not already there.
22. Use the “Built-in Formats” buttons or “Delimiter Settings” section, in conjunction with the Prefix/Suffix options, to remove any prefix or suffix characters from the Value field.
23. Make sure the Suffix option is selected.
24. Use the “Built-in Formats” buttons or “Delimiter Settings” section to add a tab character (character 9) to the end of the Value field.

25. Make sure Remove Dashes, Remove Spaces and Remove Chars checkboxes are selected => Click SAVE button.



You are done. Test your settings by opening up Notepad and scanning a cheque.

Note that in order to use the Value field, both the Enable Preview and Capture Cheque Amount options must be enabled on the Scanning tab.

Appendix B. Command Line Client

The command line client can be used to open the wedge configuration screen, apply device licenses and trigger the wedge utility to close.

The command line client is located in the same folder as the wedge executable, and is called "`ExcellaCmd.exe`". Running the command line client without any parameters will show the help screen.

```
-----------------------------------------
Excella Wedge Utility command line client.
-----------------------------------------

Sends commands to a running instance of the Excella Wedge Utility.

EXCELLACMD command [params]

  command      Command to send to the wedge.

Available commands:
  config       Show the wedge configuration screen.
  exit         Close the wedge utility.
  reload       Reload the wedge configuration.
  setconfig    Upload a new configuration file and apply it.
                 Parameter 1 is the XML config file name to upload.
                 Parameter 2 is the .IMAGESAFE config file name for cheques.
                 Parameter 3 is the .IMAGESAFE config file name for the MSR.
  license      Add a licence to the application.
                 Parameter 1 is the device serial number.
                 Parameter 2 is the licence key.
```

Config command

The CONFIG command triggers the configuration screen to be shown. The configuration password must still be entered before the screen will display.

Exit command

The EXIT command causes the wedge utility to close once the current read operation completes.

Reload command

The RELOAD command causes the wedge utility to reload its configuration from disk. This can be used to change the configuration files manually and load the changes.

Setconfig command

The SETCONFIG command allows you to upload new configuration files without having to find the configuration storage location. The first parameter points to a XML configuration file on disc. The second and third parameters point to IMAGESAFE configuration files for cheques and mag-stripe cards, respectively.

Licence command

The LICENSE command allows you to upload a device licence to an already running instance of the wedge without having to connect the device itself to the system. The first parameter is the device serial number, and the second parameter is the device licence key.

MagTek Excella Wedge Utility

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