



CLARiSUITE

Code Assurance Solution

CLARiSOFT

User Manual

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Introduction

1

Thank You for purchasing CLARiSOFT.

CLARiSOFT is Videojet Technology's message design software. It is used to create the image to be sent to Videojet's industrial product coding and marking devices for printing. It can either be used in isolation or as part of a coder and message network coordinated by CLARiNET. Together, CLARiSOFT and CLARiNET make up the core of Videojet's CLARiSUITE Code Assurance Solution.

CLARiSUITE

CLARiSUITE offers powerful, expandable and flexible code assurance solutions ranging from simple date codes to serialised shipping container codes. It is a fully integrated code assurance solution linking on-product coding to a centralized message database.

About the User Manual

This user Manual is a comprehensive guide for the regular users of CLARiSOFT. It describes all functions and features of the software as used in isolation or as part of a coder and message network coordinated by CLARiNET.

The manual can be used both as a reference guide for the functions found on the main screen and dialog boxes of the software as well as a step by step instruction manual describing how to create and download messages to coders.

Note: The CLARiTY Coder User Interface examples included in this document are not the same for all Coders. The version used for the examples included may be different in appearance and operation. In addition, not all functions are available in all coders. Please consult the coder manual for details.

Related Publications

A detailed on-line help is available with CLARiSOFT. Refer to the online help for further details on the topics covered in this user manual.

The user manual supplied with CLARiNET contains all required information to build a coder network and manage message transfer and synchronisation across coders in the network.

Terms and Abbreviations

Term	Description
Image, Image File	An Image is a collection of Fields that describes how information is to be printed on a coder. CLARiSOFT saves Images in a generic file format with the CIFF extension. It is these Image files that are selected by CLARiNET when selecting the Next Job for a given coder or group of coders.
Field	A distinct item on an Image is called a Field. Fields have their own individual properties. Each Field can be positioned relative to other fields on the Image. Each field is of a specific type, e.g. Text Fields, Date Fields etc. and these types define the base functionality of the field. The properties of the field depend upon its type. A list of fields and their uses are listed later in this document.
Field Properties	The information, specific to a particular field that sets the exact behaviour of that field. The field properties depend upon the field type. Some field properties are shared between differing field types. For example, all field types share General Properties and all text-based fields share Font Properties.
Calculated Date	Package coding applications frequently use sell-by and use-by dates that are calculated by adding a number of days to the current date. CLARiSOFT's <i>Calculated Dates</i> Field provide this feature.
Coder	This is the generic term CLARiSOFT uses to refer to any industrial in-line, in-plant package coding or labelling machine. Typical types of coder encountered in the packaging environment are: <ul style="list-style-type: none"> • Continuous Inkjet Printers (CIJ) • Large Character Inkjet Printers (LCM) • Thermal Transfer Overprinters (TTO) • Print and Apply labelling machines • Laser marking devices • Thermal Ink Jet (TIJ)
CIFF	Videojet's Coder Independent File Format. This file format is used to store Image files.

Table 1-1: CLARiSOFT Terms and Abbreviations

Installing and Licensing CLARiSOFT

2

This chapter explains how to install and license your copy of CLARiSOFT. CLARiSOFT must be licensed to operate correctly – if unlicensed, it runs in demonstration mode whereby image files cannot be saved and will be printed with a watermark stating ‘Demonstration Mode’. Random characters are also replaced in text fields.

Applications Installed During Installation Process

The CLARiSOFT installation process installs three key applications: CLARiSOFT, CLARiSOFT Print Manager and CLARiSOFT Database Manager. These applications are described in detail throughout this document and in summary below.

CLARiSOFT

CLARiSOFT is the application used to create the image files printed by coders.

CLARiSOFT Print Manager

CLARiSOFT standard functionality allows image files to be downloaded to a coder across a network. However, it is not always desirable to allow all users to have access to CLARiSOFT simply to print an image; this increases the chance of accidental changes to the image structure. With this in mind, Videojet have developed CLARiSOFT Print Manager – a standalone application that enables an operator to select an existing image file and download it to a coder without the ability to change the message structure or content.

CLARiSOFT Database Manager

CLARiSOFT is supplied with a database to store dynamic data that can be used in image files when printing; it can be more efficient and safer to add or change data in this database rather than change the contents of image files using CLARiSOFT. Data is dynamically inserted into image files from the database when an image file is downloaded to a coder. CLARiSOFT Database Manager is a tool to create and administer the CLARiSOFT database. CLARiSOFT Database Manager is not used when an ODBC data source is in use (see Chapter 7, “CLARiSOFT Database”).

Installing CLARiSOFT

Before commencing the installation, ensure that you have sufficient security access rights to install the software on the required PC.

Note: CLARiSOFT installs and runs on a Windows operating system only.

CLARiSOFT and CLARiNET should always be upgraded together, i.e. the version number of both programs should always be the same. Prior to installing CLARiSOFT, ensure that the hardware licence key (‘dongle’) is removed from the PC.

Preparing for installation

It is necessary to first uninstall any previous installation of CLARiSOFT from the PC. If no previous installation of CLARiSOFT exists, then skip to the section “Commencing Installation” on page 2-4.

License File Backup

It is advisable to back up the CLARiSOFT license file prior to removing the software. This ensures that, in the event of any mistakes or errors, your license file can be restored to avoid re-licensing the new installation.

The license file can be found in a sub-folder of the CLARiSOFT program location which is user definable during installation. The default location differs depending on installation within a 32bit or 64bit Windows environment.

- 32bit Operating Systems – C:\Program Files\CLARICOM
- 64bit Operating Systems – C:\Program Files (x86)\CLARICOM

Once this installation folder has been located, navigate to the sub folder \data and make a copy of the file ‘CLARiSOFT License.xml’ to an alternative location. If this file is accidentally deleted during installation (see “Removing the existing installation” on page 2-3) the new license file, post installation, can be overwritten with the backup to restore existing license information.

Removing the existing installation

Note: Before beginning the uninstall process, make sure that all hardware keys (Dongles) are removed from the PC.

- 1 Open *Control Panel*. Navigate to the list of installed programs and locate CLARiSOFT. Click on the entry to select it and click on the option *uninstall*. After a few moments the following dialog box appears.

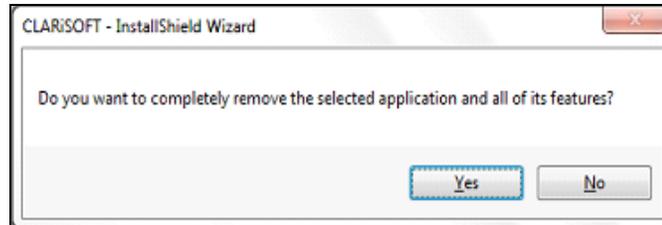


Figure 2-1: InstallShield Wizard

- 2 Click *Yes* and the following dialog box appears asking if the licensing information of the currently installed version is to be deleted. Typically, when upgrading, the license file should not be deleted, so click *No*. Clicking *Yes* will require the software to be re-licensed if the license file is not backed up (see "License File Backup" on page 2-2).

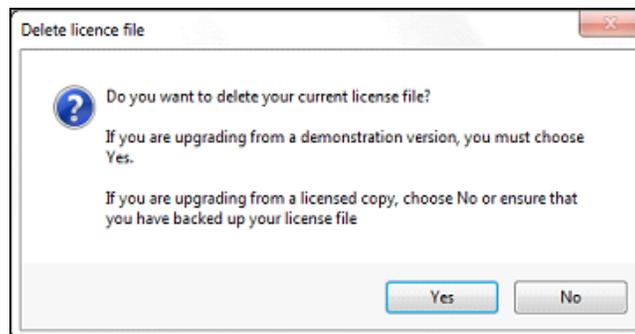


Figure 2-2: Confirmation Window

The uninstall process runs and removes CLARiSOFT from the PC. Once completed, the following screen is displayed.

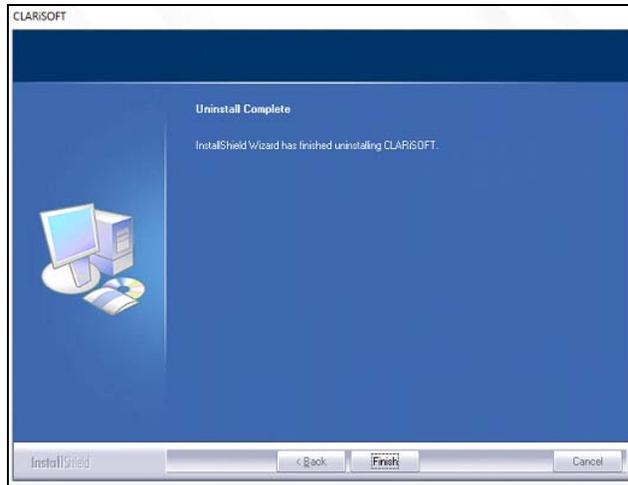


Figure 2-3: Finish Uninstall

Click *Finish* to close this window and complete the CLARiSOFT uninstall process. It is recommended that the PC is rebooted after uninstalling previous versions.

Commencing Installation

- 1 CLARiSOFT is installed by running a software application entitled 'CSxxxxSPy.exe' where 'xxxx' refers to the major version of CLARiSOFT being installed and 'y' the Service Pack (SP) release. Locate this file (typically shipped by Videojet on a USB memory stick). Right click on it and select *Run as Administrator* to begin the setup process.

- 2 The *User Account Control* window opens.
- 3 Click *Yes*. Following screen is displayed.

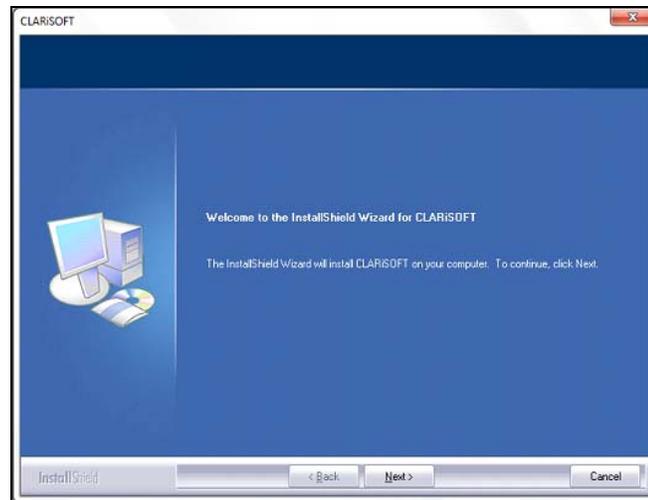


Figure 2-4: Commence Install

- 4 Click *Next* to continue setup and be presented with the following screen.

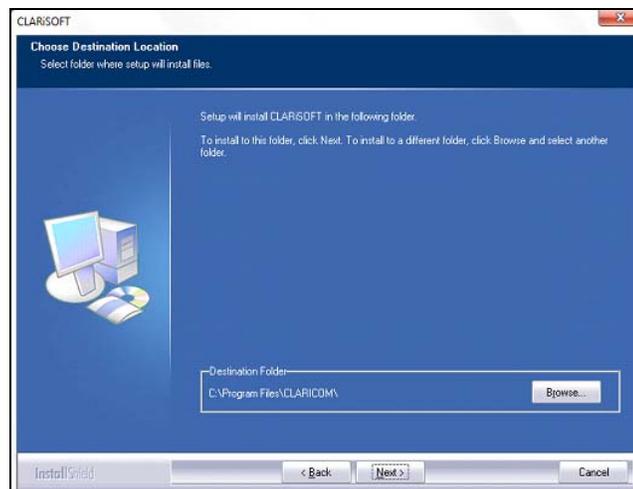


Figure 2-5: Choose Destination Location

If the default CLARiSOFT installation location is to be changed, click on *Browse...* and select the desired folder. Click *Next >* to continue. It is recommended that the default installation locations are used. Always install on the local hard disk (C:), not a network location or secondary hard disk.

- 5 On the following screen, enter the CLARiSOFT installation key that is supplied with the installation media.

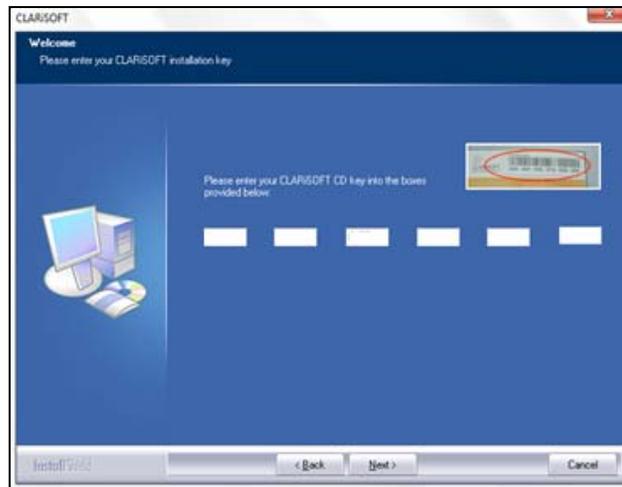


Figure 2-6: Enter License Key

If this is a new installation, or a reinstallation and the license file was not retained, the fields will be blank and the key must be entered. If this is a reinstallation and the license file was retained then the fields will contain the previous installation key. Click *Next >*.

The *License Agreement* window appears (Figure 2-7).

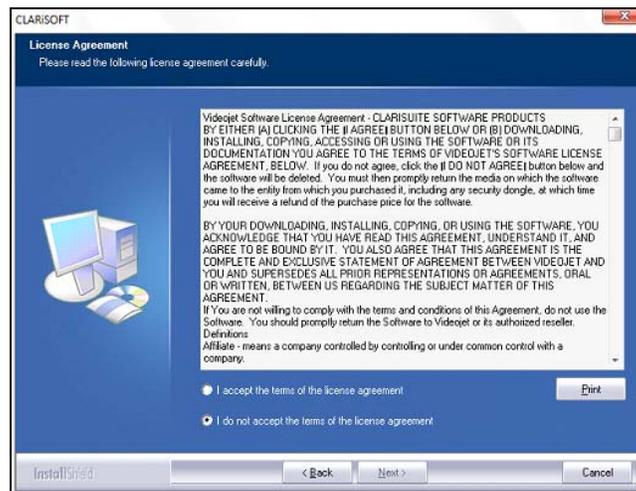


Figure 2-7: Accept License Agreement

- 6 Review the license agreement and either click *I accept the terms of the license agreement* followed by *Next >* to continue with the installation or click *Cancel* to abort the installation.

- 7 Once *Next >* is clicked, CLARiSOFT is installed on the PC. After installation, the following screen appears informing of success and allowing the ability to view the *readme* file and / or launch CLARiSOFT once *Finish* is clicked.

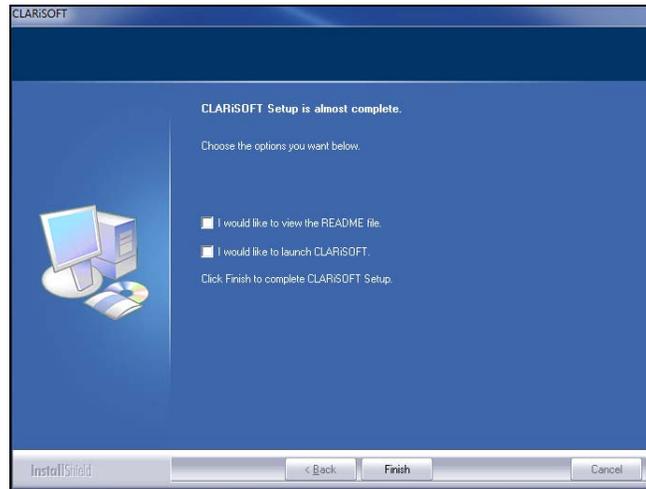


Figure 2-8: Finish Installation

Click *Finish* to complete the CLARiSOFT setup.

Post Installation Actions

Under Windows 7 and Windows Server, it is recommended that CLARiSOFT is explicitly set to run under the user account 'administrator' to ensure all functions within the application run correctly regardless of the user access rights.

Note: These steps are not required for Windows XP.

Right click on the CLARiSOFT entry within the start menu. From the pop-up menu that is displayed, click on *Properties*. The *CLARiSOFT Properties* dialog box appears (Figure 2-9).

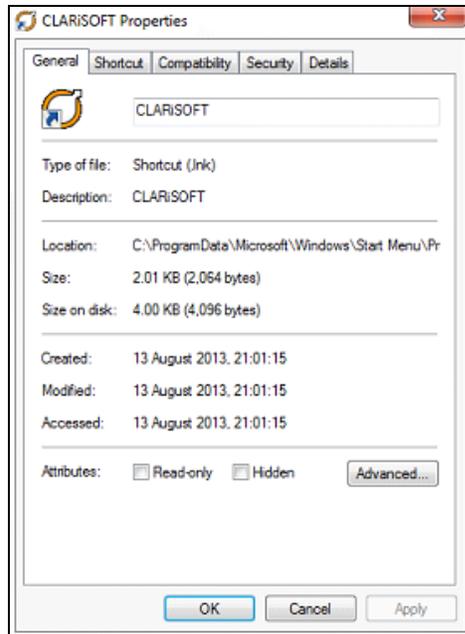


Figure 2-9: CLARiSOFT Properties

Click on the *Compatibility* tab and then select the check box *Run this program as an administrator*.

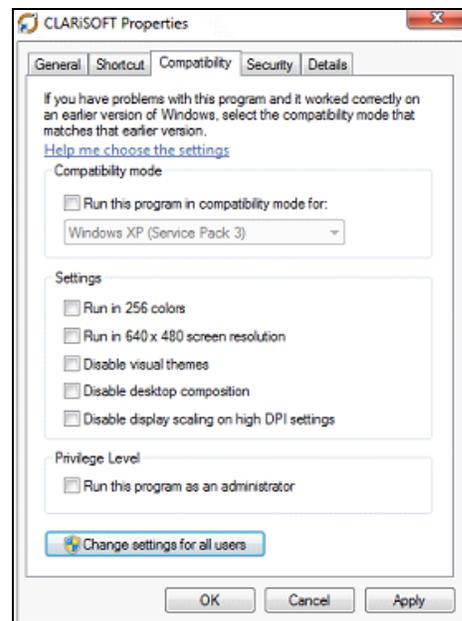


Figure 2-10: Compatibility

Click *OK* to save the changes and close the dialog box.

Repeat these steps for CLARiSOFT Database Manager and CLARiSOFT Print manager that are both installed at the same time as CLARiSOFT.

Licensing CLARiSOFT

CLARiSOFT requires a license to be able to function fully.

Activation via Hardware License Key (Dongle)

CLARiSOFT is delivered with a USB-based dongle license key. The dongle must be connected to a computer running CLARiSOFT to stop CLARiSOFT running in demonstration mode.

Follow the procedure below to activate CLARiSUITE using a hardware key.

- 1 Open CLARiSOFT (navigate to *Start > Programs > CLARiCOM > CLARiSOFT*).
- 2 CLARiSOFT displays the message *Unactivated* or *Demonstration Mode* at the top left hand corner on the title bar.
- 3 Insert the USB Hardware key (Dongle) into an unused USB port of the computer. The system will install drivers automatically. Once the installation is complete, the message *Unactivated* or *Demonstration Mode* disappears. The software is now ready to use.

Note: *If the message does not disappear, restart the CLARiSOFT application.*

Note: *It is recommended that the CLARiSUITE license files are saved to an alternative location. This will safeguard against losing the file in case of a PC failure, PC reimage or accidental deletion during an upgrade. See the section “License File Backup” on page 2-2 for instructions on how to perform this.*

User Interface Elements

3

CLARiSOFT Main Screen

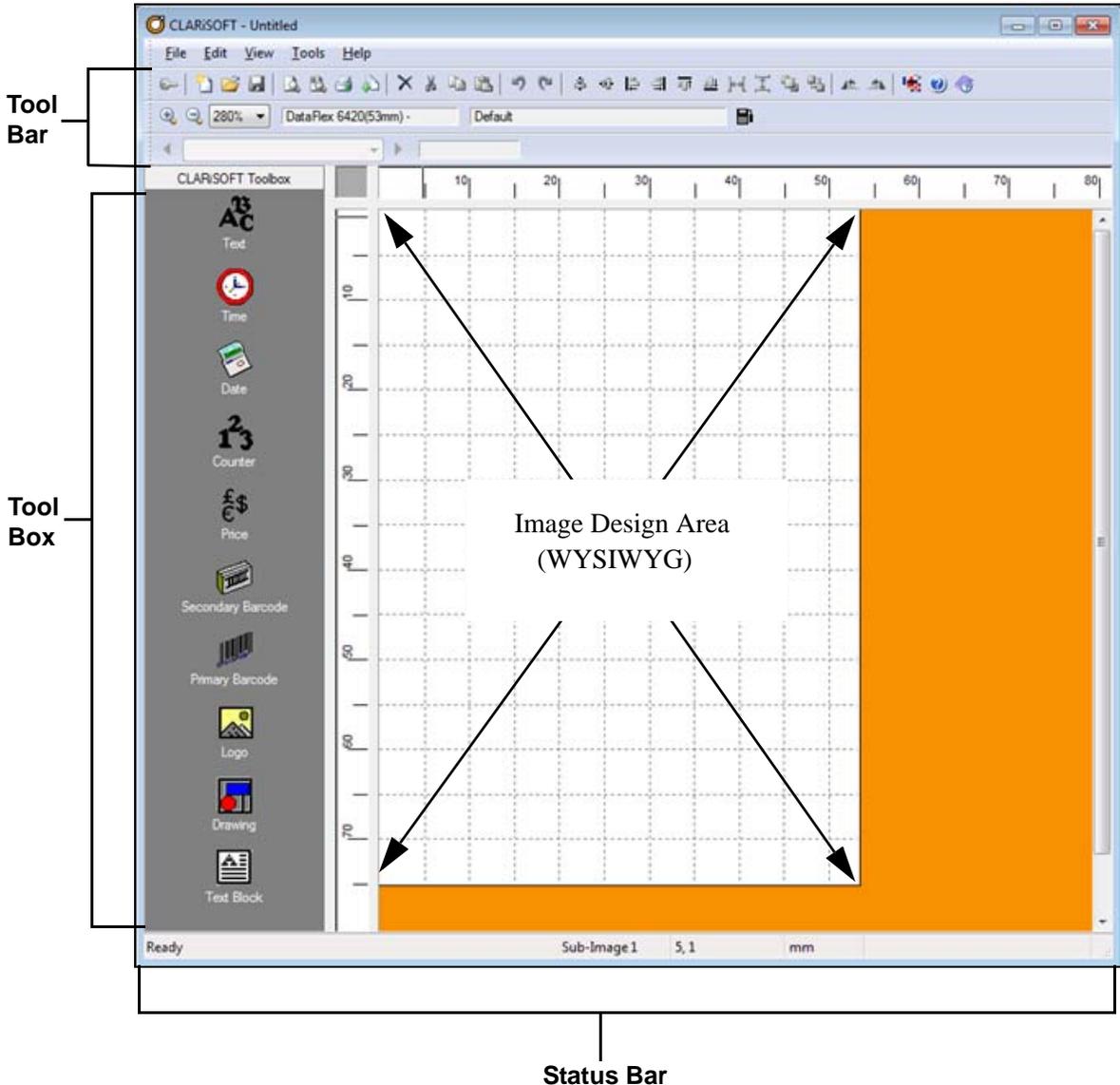


Figure 3-1: CLARiSOFT Main Screen

Toolbars

CLARiSOFT contains three toolbars enabling quick access to the most useful functions required during message design.

Toolbars can be individually displayed or hidden through the *View* menu.

CLARiSOFT Toolbar

The CLARiSOFT Toolbar contains key functions for user access, file management and for editing and positioning of objects on the image design area.

Symbol	Description
	User level (User Login): If login security is enabled this function enables the user to create / manage user security levels and permissions (if user has sufficient authorisation).
	New Image File (ciff): Create a new image file.
	Open Image File (ciff): Open an existing image file.
	Save Image File (ciff): Save current image file.
	Print Preview: Allows the user to preview the image before printing / downloading.
	Sub Image Preview: If using sub-images, this option allows the user to preview and compare up to four sub-images.
	Print: Allows the user to print the image files to coder, windows printer or a file.
	Download: Allows the user to download the image files to coder, windows printer or a file.
	Delete: Remove the selected item(s) from the image design area.

Table 3-1: CLARiSOFT Toolbar

Symbol	Description
	Cut: Remove the selected item(s) from the image design area and place them onto the clipboard.
	Copy: Copy the selected item(s) on the image design area and place them onto the clipboard.
	Paste: Paste the contents of the clipboard onto the image design area (where applicable).
	Undo: Undo the last action.
	Repeat: Repeat the last action.
	Horizontal Center: Horizontal Center alignment of the selected fields.
	Vertical Center: Vertical Center alignment of the selected fields.
	Left Align: Left Edge alignment of the selected fields.
	Right Align: Right Edge alignment of the selected fields.
	Top Align: Top Edge alignment of the selected fields.
	Bottom Align: Bottom Edge alignment of the selected fields.
	Horizontal Spacing: Allows to set the Horizontal Spacing between the selected fields.

Table 3-1: CLARiSOFT Toolbar (Continued)

Symbol	Description
	Vertical Spacing: Allows to set the Vertical Spacing between the selected fields.
	Bring to Front: Bring the selected field to the Front.
	Send to Back: Send the selected field to the Back.
	Rotate Left: Rotate the selected field to the left.
	Rotate Right: Rotate the selected field to the right.
	Select Language: Displays a list of supported languages allowing the user to switch the CLARiSOFT application to another language.
	About: Displays the version of the software in use.
	Help Contents: Displays the contents page of the CLARiSOFT on-line help system.

Table 3-1: CLARiSOFT Toolbar (Continued)

Format Viewer Toolbar

The format viewer toolbar allows the user to change the image design area zoom level, the currently selected target coder and change the target coder.

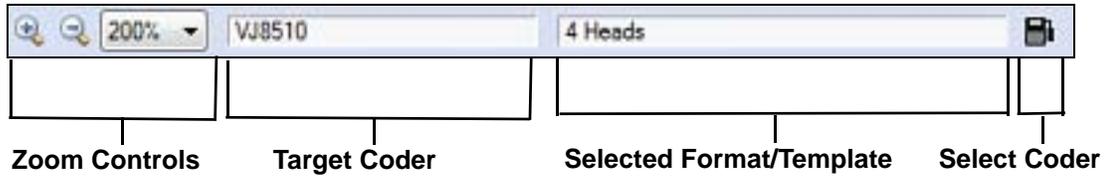


Figure 3-2: Format Viewer Toolbar

Element	Description
Zoom Controls	Enables the user to progressively zoom in to, or out of, the image design area using the two magnifying glass symbols or zoom to a specific percentage by selecting an option from the drop down list.
Target Coder	Description of target coder for which this image is being created.
Selected Template	Depending on the target coder, CLARiSOFT needs to know certain format / template information. For example, the number of drops high a CIJ printed message will be or with a TIJ, how many heads will be used. These selections define how CLARiSOFT formats the image design area. The selected format / template is displayed in this field.
Select Coder	Clicking on this button enables the user to change the target coder. CLARiSOFT will retain the objects on the image design area (where applicable – depending on coder) and move them to fit if the image size is changed.

Table 3-2: Format Viewer Toolbar

Database Viewer Toolbar

It is possible to link fields in an image file to external data (see Chapter 7, “CLARiSOFT Database” for more information). When this option is being used, the ‘Database Viewer’ toolbar enables data from the database to be viewed in the associated, linked field in the image design area.

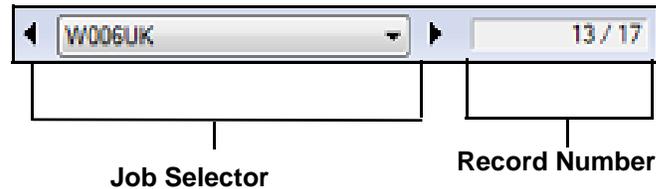


Figure 3-3: Database Viewer Toolbar

Element	Description
Job Selector	Clicking on the direction indicators enables the user to scroll backwards and forwards through the matching jobs (those that use the image being edited in CLARiSOFT) in the external database. Clicking on the button situated between the direction indicators will drop down a list of all matching Unique Job Codes from the external database; clicking on one of the presented job codes will select that job. The unique job code of the selected job is displayed on the job selection button.
Record Number	Displayed in the format XX / YY. This read only field indicates that record number XX of YY matching records is selected.

Table 3-3: Database Viewer Toolbar

CLARiSOFT Toolbox

The Toolbox contains all field types that can be placed on the image design area. These fields are then either printed by the coder or, marked as non-printable and used as bases / reference data for other fields. Click on the required field type to select it and then click in the required location on the image design area to place the field.

Field Types

Icon	Description
	Text fields allow fixed text information such as 'Lot Number' or user entered information to be included in your printed image.
	Time fields insert the current time onto the printed image. The real-time capabilities of the selected coder are used to do this.
	Inserts the current date onto the printed image. As well as using a coder's real-time ability to print dates it is also possible to derive dates in multiple formats in the image and download as text.
	A counter field instructs the selected coder to manage and print incremental numeric and alphanumeric data.
	A price field is similar to a text field with the addition of specific formatting for currency data printing.
	Displays a list of barcodes commonly printed on secondary packaging (e.g. EAN128). Data in the field is converted to the required barcode by the selected coder.
	Displays a list of barcodes commonly printed on primary products (e.g. EAN13). Data in the field is converted to the required barcode by the selected coder.
	CLARiSOFT enables picture / logo / graphic files to be embedded into an image. A wide range of formats are available (.jpg, .bmp, .png, etc.) Support for this object type is dependent on the model of coder.
	Drawing fields allow lines, boxes and ellipses to be drawn on the image. Note that not all coders support drawing graphics.
	Text Block fields allow you to define an area of the image where text can appear. If the text is too long to fit on a single line it will automatically wrap onto the next line. If the text is too large to fit in the text block area, the font will automatically be reduced until it fits. This feature is only supported on certain models of coder.

Table 3-4: Field Types

Menu Bar

CLARiSOFT core functionality can be accessed through the CLARiSOFT menus and Sub-menus. The table below supplies a high level overview of the functions; later sections in the manual will describe the functionality in greater detail.

Menu	Sub Menu	Key Functions
File	New	Create a new image file.
	Open...	Open an existing image file.
	Save	Save current image file.
	Save As...	Save current image file under a new name.
	User Level...	If login security is enabled this function enables the user to create / manage user security levels and permissions (if user has sufficient authorisation).
	Date Calculations...	Opens the Date Calculation Manager to enable the creation and maintenance of calculated dates, date concessions, date rounding and calendar rules.
	Data Sources...	Enables the user to create and maintain ODBC data sources. Used when inserting dynamic data from external databases into the message.
	Select Coder...	Select this option to change the target coder. CLARiSOFT will retain the objects on the image design area (where applicable – depending on coder) and move / resize them to fit if the image size is changed.
	Properties...	This option displays a dialog box containing the image file properties (dimensions of image, orientation, number of sub-images, etc.). Other information is displayed depending on the target coder. The user is able to set coder specific parameter values that are downloaded to the coder at the same time as the image file. The parameters available depend on the target coder but instruct the coder to perform specific functions such as invert print, reverse print, set character gap inverse or set the start of day. Depending on the target coder, this dialog box can also present tools to create and manage sub-images and print-head assignment. (Used in multiple printhead and master/slave applications).
Print Preview...	Allows the user to preview the image before printing / downloading.	

Table 3-5: CLARiSOFT Menu

Menu	Sub Menu	Key Functions
File (Continued)	Sub Image Preview	If using sub-images, this option allows the user to preview and compare up to four sub-images.
	Print	The Print and Job Download dialog boxes perform the same task in current versions of CLARiSUITE. The two options remain for backward compatibility purposes only. Throughout this manual, when referring to "Printing", either of these options are interchangeable.
	Job Download	
	Recent files	Displays the 6 most recently opened image files. Selecting one of the entries will open the image file for editing.
	Exit	Close current image file (if applicable) and quit CLARiSOFT.
Edit	Undo	Undo the last action.
	Redo	Repeat the last action.
	Cut	Remove the selected item(s) from the image design area and place them onto the clipboard.
	Copy	Copy the selected item(s) on the image design area and place them onto the clipboard.
	Paste	Paste the contents of the clipboard onto the image design area (where applicable).
	Delete	Remove the selected item(s) from the image design area.
View	Toolbar	Display or hide the main CLARiSOFT Toolbar.
	Status Bar	View or hide the Status Bar.
	Format Viewer	View or hide the Format Viewer.
	Database Viewer	View or hide the Database Viewer.
	Zoom In	Zoom in one step on the image design area.
	Zoom Out	Zoom out one step on the image design area.

Table 3-5: CLARiSOFT Menu

Menu	Sub Menu	Key Functions
Tools	Alignment	Displays a sub-menu with options for aligning and spacing / distributing selected items on the image design area.
	Rotation	Displays a sub-menu with options for rotating selected items on the image design area.
	Field Order	Allows control over the field order for printers where the order of sending data is essential.
	Select Language	Displays a list of supported languages allowing the user to switch the CLARiSOFT application to another language. Changes the application dialogue boxes, menus, etc. – not the content of the image design area.
	Options...	Displays a dialog box allowing user to configure primary application settings such as editing preferences, working directory, enabling login control, SSCC setup, printer connectivity, database configuration and print mode (batch or sequence mode). These functions are described in detail throughout this manual.
	Start of Day	By default, dates are incremented at midnight. This option enables the date changeover to be set to any other time.
Help	Contents	Displays the contents page of the CLARiSOFT on-line help system.
	Activate...	Leads the operator through the process of activating the software if using software, rather than hardware (dongle), licensing. Software licensing is available only in certain instances – contact your local Videojet representative for more information.
	About CLARiSOFT...	Displays the version of the software in use.

Table 3-5: CLARiSOFT Menu

Status Bar

The status bar displays the following information:

- Status messages
- x and y position of the cursor for accurate positioning
- Selected unit of measure
- User ID currently logged in (if user login functionality enabled)
- Sub-image number (if one is in use)



Figure 3-4: Status Bar

This chapter introduces the basic elements of image design via the creation of three basic images:

- 1 *Use by* date printed by a Continuous Ink Jet device to explore text and date fields.
- 2 Secondary packaging image printed by a Large Character printer on a carton which introduces Logos, Barcodes and Drawing Objects.
- 3 Enhancing example two above to automatically increment the box number as each is printed. This example describes how to use counter fields, non-printed items and merge fields.

It is recommended to work through these examples in sequence to build a sound understanding of core CLARiSOFT functionality. For instructions on how to print image files see Chapter 5, “Printing in CLARiSOFT”. All sample image and graphic files used in these examples are shipped with the electronic version of this manual in the ‘Sample CIFFs’ folder.

Basic Image Containing Use-By Date

This image contains static text and a date field displaying a use-by date. The operator is prompted to enter the use-by date when the job is selected. Date functions is covered in more detail in Chapter 6, “Date Calculations”.

Define Target Coder

- 1 Click *File > New* to create a new image. The following screen is displayed. Select a target coder and image / size options.

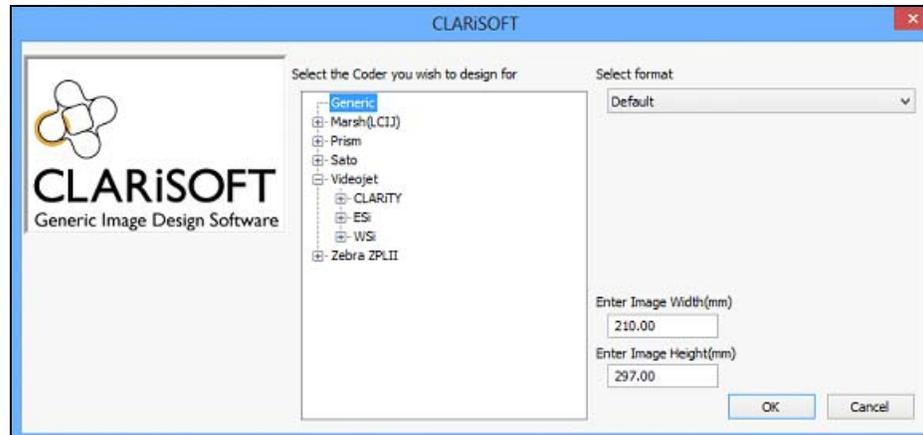


Figure 4-1: Select Coder

- 2 For this example, print using a Videojet 1620 WSI Continuous Ink Jet. Click *Videojet > WSI > WSI 1620* in the list below *Select the Coder you wish to design for*.
- 3 From the *Select Format* drop down list, select *12-High*. This tells CLARiSOFT that the image to be printed as 12 dots / drops high and it sets the Image Design Area to the corresponding height.
- 4 Leave the value in field *Enter Image Width(mm)* at 100.00. The *Enter Image Height(mm)* field is disabled, when printing via a CIJ, the *Select Format* option defines the height of the print area. The screen is displayed as follows.

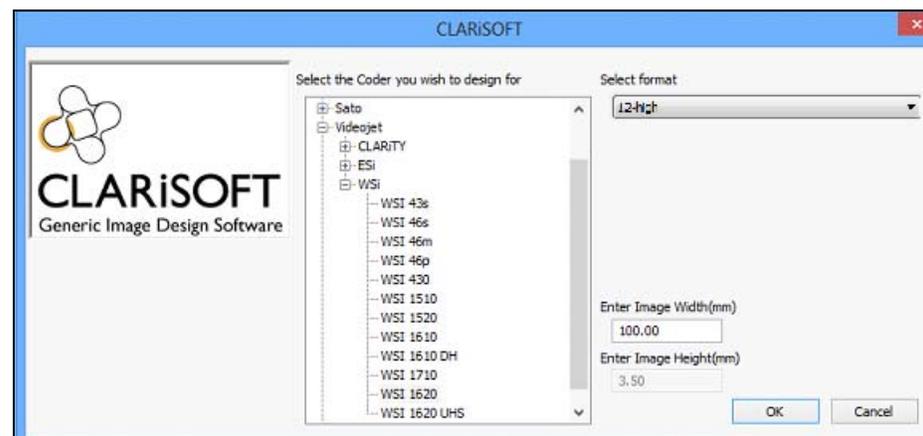


Figure 4-2: Select Format

- Click *OK* to close the dialog box and start editing the image. CLARiSOFT sets the image design area to match the dimension set on the previous screen.

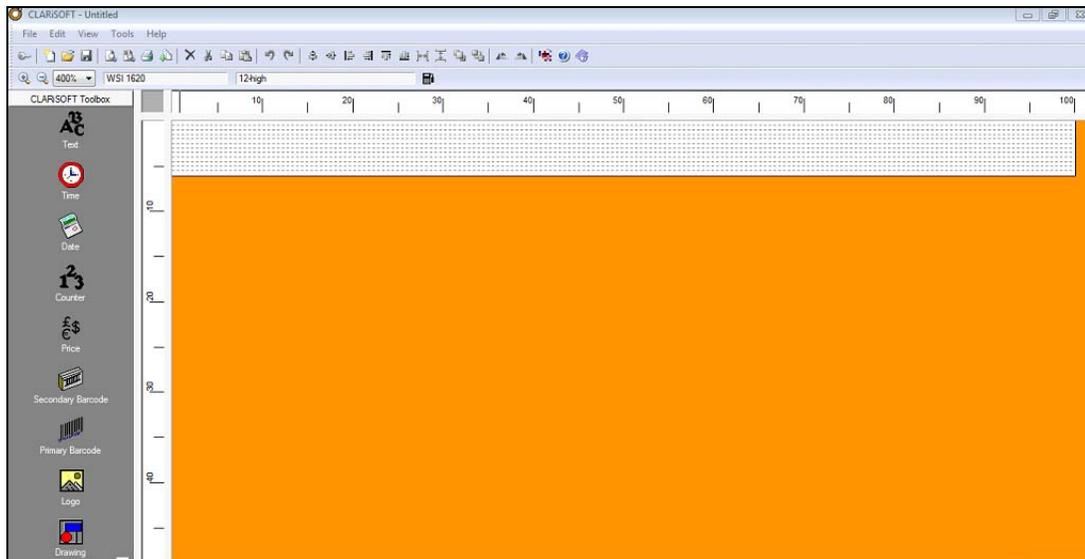


Figure 4-3: CLARiSOFT Main Screen

Create a Static Text Field

- Click the *Text* tool in the toolbox. CLARiSOFT automatically places a text box on the image design area and displays the *Text Properties* dialog box:

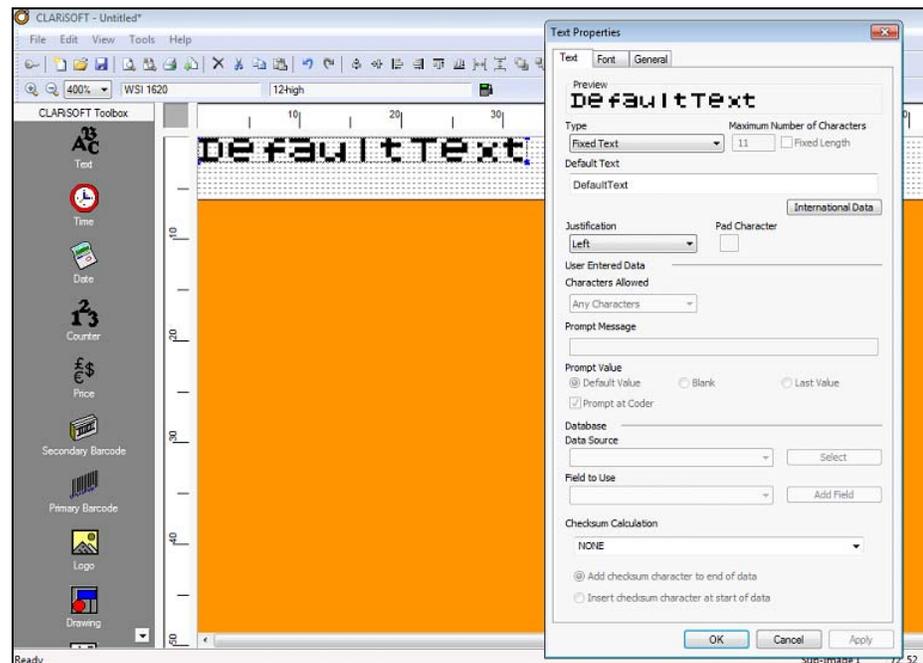


Figure 4-4: Text Properties

- 7 Enter into the *Default Text* field the text *Use By:* . Ensure there is a space at the end of the text. Click *Apply*. The dialog box appears as follows:

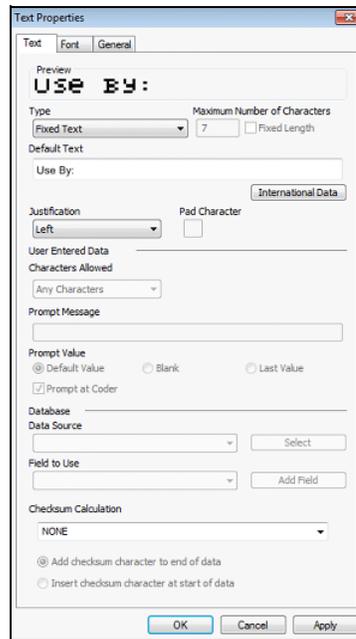


Figure 4-5: Text Properties -Text

- 8 In this step, increase the size of the font to match the height of the Image Design Area (as defined in Step 3 above). Click on the *Font* tab and change the font size to *12 High International* by selecting this option from the drop down list below the text 'Font Name'. Click *Apply*.

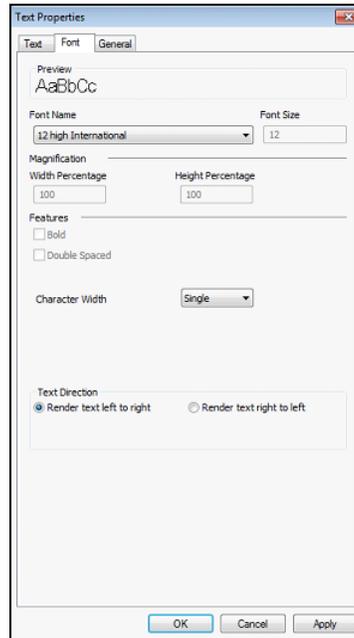


Figure 4-6: Text Properties - Font

- 9 Click on the *General* tab to give this field a unique, meaningful name. Whilst CLARiSOFT assigns each field in an image a unique name it is good practice to assign meaningful ‘friendly’ names. In the *Field Name* box enter ‘txtUseBy’. Click *Apply*.

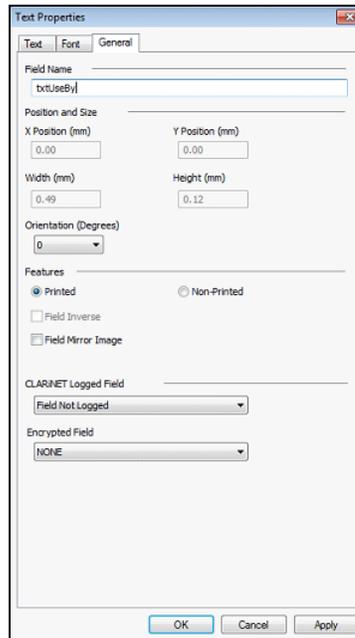


Figure 4-7: Text Properties - General

- 10 Click *OK* to close the dialog box. The image design area should look like the following image.

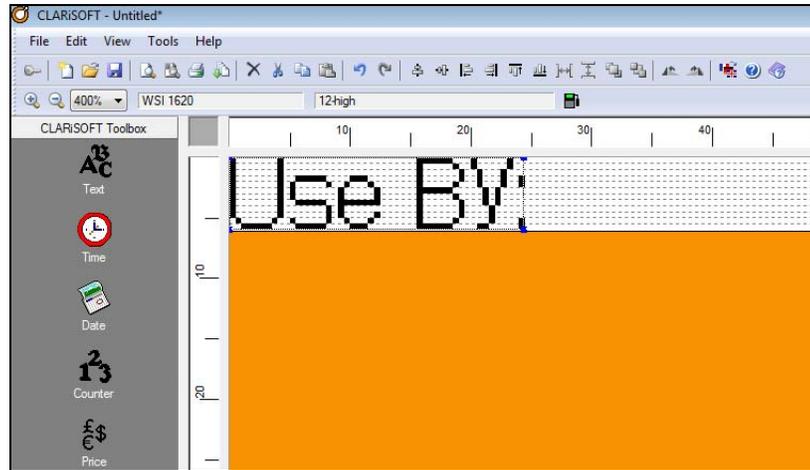


Figure 4-8: Image Design Area

Create a User Entered Date Field

- 11 Click on the *Date* tool in the CLARiSOFT Toolbox. A date field is placed on the image design area (next to the static text entered previously) and the *Date Properties* dialog box appears.

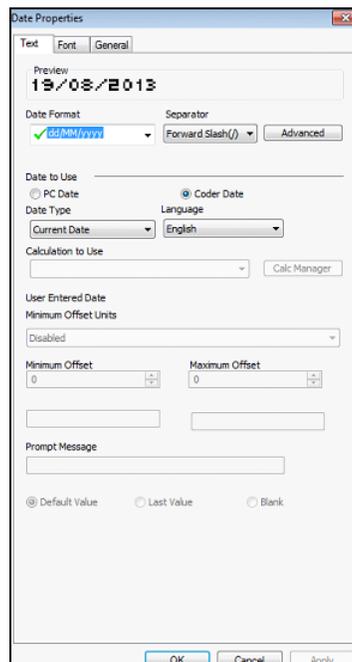


Figure 4-9: Date Properties

- 12 For this job, we want the operator to enter the ‘Use-By date’ whenever the job is printed. To do this, select the option *User Entered Date* from the drop down list located below ‘Date Type’.
- 13 Within the *Date Properties* dialog box, set the Font size to be *12 High International* on the *Font* tab and give the field a friendly Field Name of ‘dtUseByDate’ on the *General* tab.
- 14 Click *OK* to save the properties and close the dialog box. The previously added date field is set to display the current date and CLARiSOFT should look as follows:

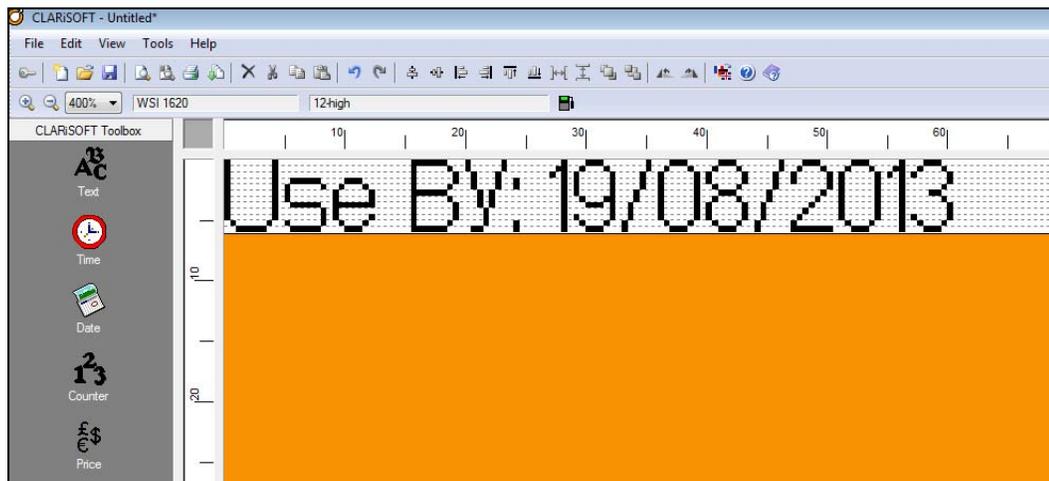


Figure 4-10: Image Design Area

Saving the Image File to Disk

- 15 CLARiSOFT saves image files to the user-definable default working directory. Click *Tools > Options...* to display the *CLARiSOFT Options* dialog box and then click on the *General* tab. The following screen is displayed where it is possible to select a new working directory by clicking on the *Browse* button:

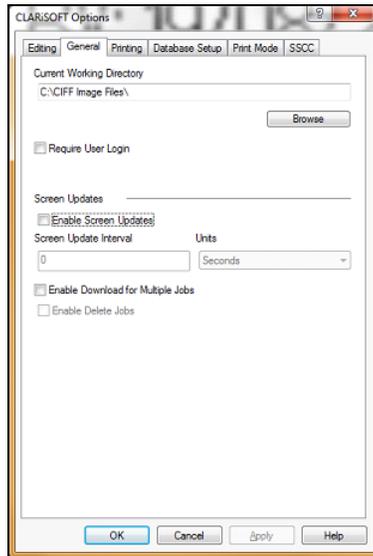


Figure 4-11: Save Image

- 16 Click *OK* to save changes and close the *CLARiSOFT Options* dialog box.
- 17 Click *File > Save As...* to display the standard *Windows* save dialog box. Select the required storage location (if different from the working location defined above), enter a file name (for this example set the file name to be *BasicUseByDate*) and click *Save*. CLARiSOFT appends the extension *‘.ciff’* to image files.

Basic Image for Secondary Packaging

This example describes the steps required to build a typical carton / secondary packaging image and introduces new tools / fields: Logos, Barcodes and Drawings. It also introduces the object alignment and spacing tools.

An example of the completed image:



Figure 4-12: Secondary packaging Image

Define Target Coder

- 1 Start a new image in CLARiSOFT (*File > New*) and in the target coder selection screen select *Videojet > CLARiTY > Videojet 2360*. The Videojet 2360 is a Large Character Marking (LCM) coder ideally suited for printing directly onto shipping cartons.
- 2 Set the image width to 260mm and leave the height at 70.52mm (the maximum print height for the Videojet 2360 print head).
- 3 The Videojet 2360 does not have any print templates / settings that are affected by the *Format* drop down list so this can be left at 'Default'.
- 4 Click *OK*.

Insert a Logo

- 5 Click on the *Logo* tool in the Toolbox and then click in the image design area at the location to place the object. For this example click approximately at coordinates 5, 5 (millimetres across and down from the top left corner of the image design area – the status bar indicates the current x & y position). A sample logo is placed at the selected location and the *Logo Properties* dialog box appears.

- Click the *Browse* button and locate the file 'CLARiSUITE Logo.jpg' (note that the 'File Type' will need to be changed to 'jpg' in the *File Open* dialog box). Select the file and click *Open* to return to the *Logo Properties* dialog box.

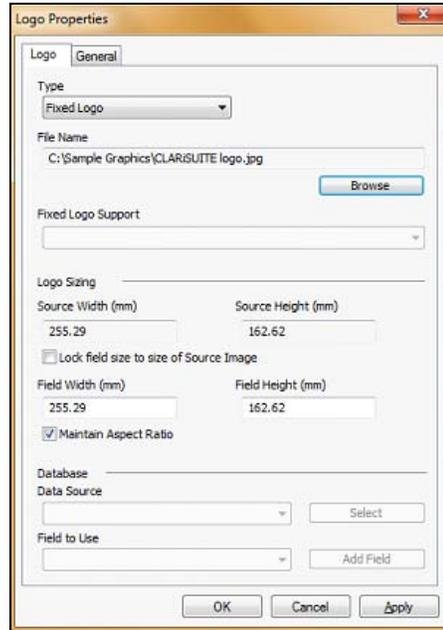


Figure 4-13: Logo Properties

- 7 If required, explicitly set the size of the logo on this tab and give the field a 'friendly name' on the *General* tab. Click *OK* to close the dialog box and insert the selected graphic into the image.

Note: CLARiSOFT work only with monochrome logos and automatically convert colour sources files if required.

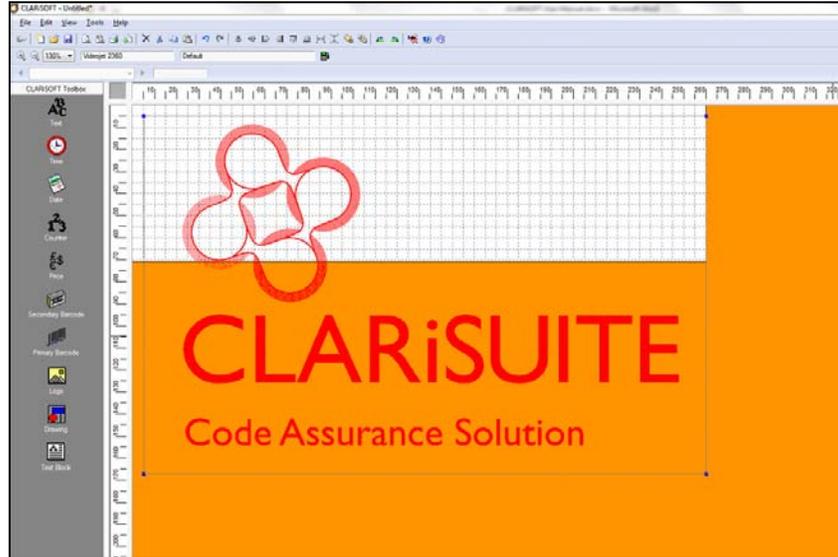


Figure 4-14: Logo on the main screen

- 8 The logo is too big to entirely fit in the image design area. If CLARiSOFT cannot print an object correctly, it changes its colour from black to red. This occurs if the object is partially (or fully) off the image design area or if the object overlaps with another object or the target coder cannot support overlapped fields. Resize the logo by dragging the bottom right corner (indicated with a small, blue square) diagonally up to the left. Reduce the size so that the bottom of the logo is approximately 5mm above the bottom of the image design area as seen in the following screenshot:

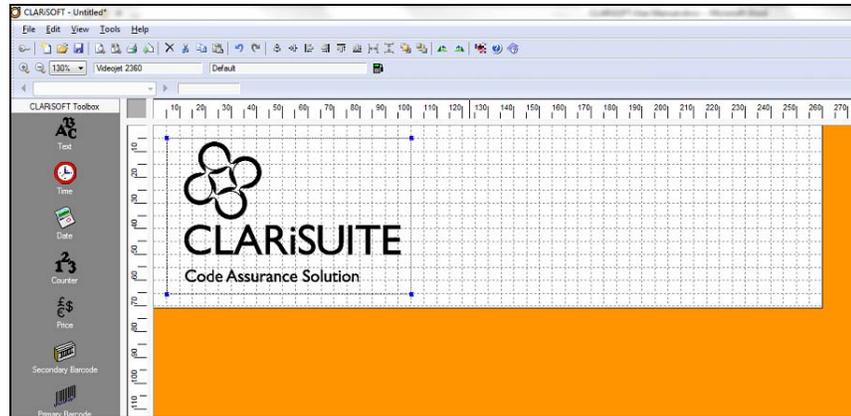


Figure 4-15: Logo Resized

Insert a Drawing

- 9 In the finished image, there is a rectangular box around its perimeter; this is added using the *Drawing* tool. Click on the *Drawing* tool in the Toolbox and clicking on the location of the top, left hand corner of the rectangle. The *Drawing Properties* dialog box appears.



Figure 4-16: Drawing Properties

- 10 As the default drawing shape ('Primitive Type') is the required *Outline Box*, click on *OK* to insert the drawing shape and close the dialog box.
- 11 The inserted outline box is not big enough; drag the bottom, right corner of the box (as highlighted with a small, blue square) until the box is approximately 3mm from all edges of the image design area. Objects can be selected by clicking on them.

Inserting a Barcode

CLARiSOFT offers a wide range of industry standard primary and secondary packaging barcodes which is printed by coders with in-built support for the selected barcode. If the coder does not support a specific barcode it is not possible to add that barcode to the image.

- 12 For this example include an ITF barcode; a 14 digit Global Trade Item Number (GTIN) commonly used on secondary packaging. Click on *Secondary Barcode* in the Toolbox and then click on the required print location in the image design area (for this example approximately 130, 35 using the coordinates in the status bar). A list of available secondary barcodes is present.



Figure 4-17: Select Barcode

- 13 Click on *ITF* and then *OK* to close the barcode selection dialog box and display the *ITF Properties* dialog box. This dialog contains the required parameters to correctly design and populate an ITF.

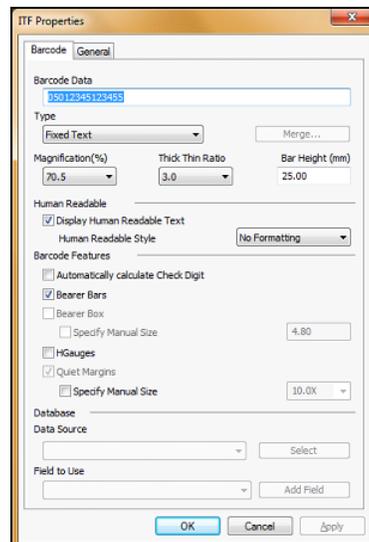


Figure 4-18: ITF Properties

- 14 CLARiSOFT places a default value in the *Barcode Data* field. Enter a 14 digit numeric value in this field (CLARiSOFT allow longer or shorter lengths but there must always be an even number of digits) and give the field a friendly name of 'bcITF' on the *General* tab. Click *OK* to close the *ITF Properties* dialog box.

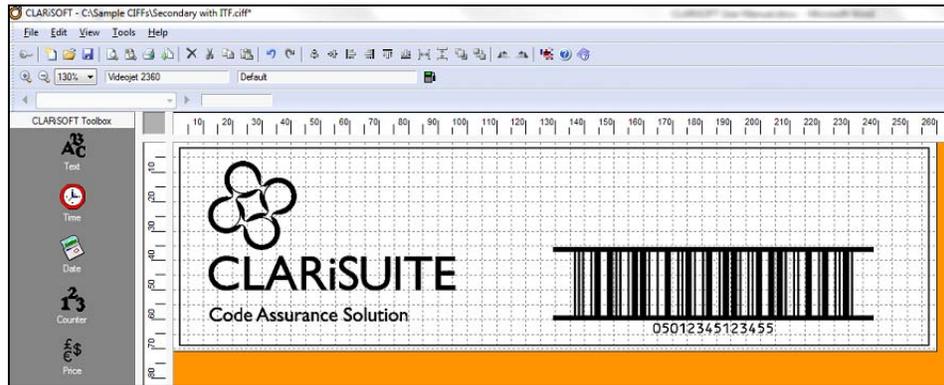


Figure 4-19: Image Design Area

Adding Text Fields

- 15 To complete the design of the image add two text fields above the ITF barcode. The upper most text field should have the default text of *CLARiSOFT Software* in Arial 30 point (fonts are changed via the *Font* tab on the field properties dialog box) and the lower text field should state *Box 1 of 1* in Arial 16 point. The image should look something like the following screen shot.

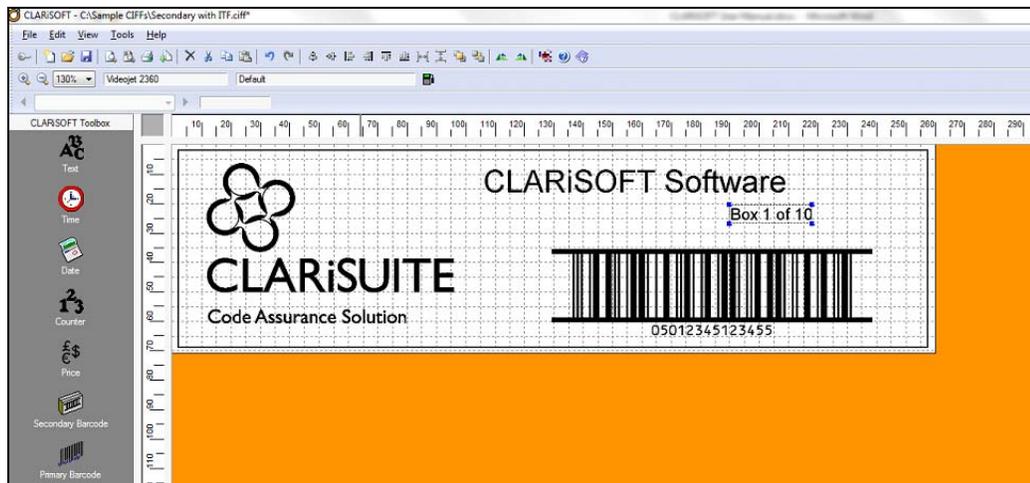


Figure 4-20: Final Image

Aligning and Spacing Objects

- 16 Click on the text field *CLARiSOFT Software* to select it and then hold the *Shift* key on the keyboard whilst clicking on the text *Box 1 of 10* and the ITF Barcode. This selects all three objects.
- 17 Click on the *Horizontal Centre* button on the toolbar or *Tools > Alignment > Horizontal Alignment* from the menu. This aligns the centre points of all three objects.
- 18 With the same three objects still selected click on the *Vertical Spacing* button on the toolbar (or *Tools > Alignment > Vertical Spacing*) from the menu. The spacing dialog box appears; enter 5 in the *Field Spacing* box to ensure a unified 5mm gap between each object. The image will now look like:

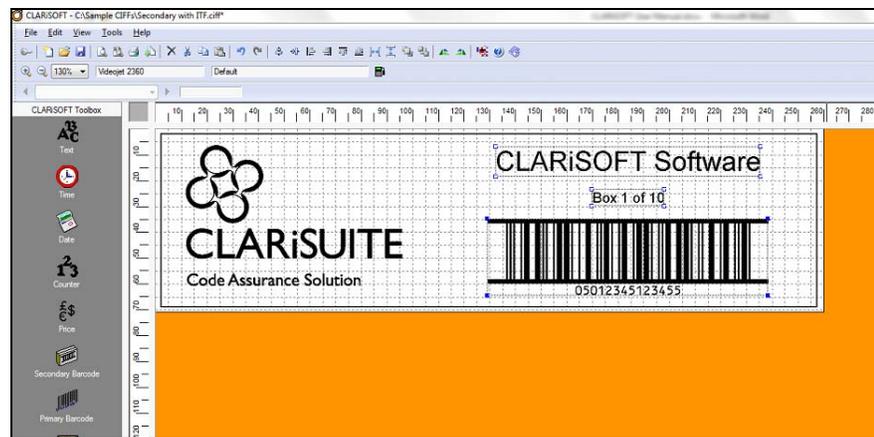


Figure 4-21: Aligned Image

Save the Image

- 19 Click *File > Save As...* and select the required location for storing the file. For this example use the file name 'Secondary with ITF' and click *Save*.

Basic Image with Counter Field

This example extends the functionality and flexibility of the image file created in the previous example. The field stating *Box 1 of 10* is altered so that the box number automatically increases by one with each print.

This is performed by building up a text field variant called a *Merge Field* that consists of three other non-printed fields concatenated together: two text fields and the counter field.

A reminder of how the final image will look.



Figure 4-22: Final Image

Prepare the image file

- 1 Locate and open the image file created in the previous example ('Secondary with ITF.ciff').
- 2 Save the file under a new name ('Secondary with ITF and Counter.ciff') using the standard *File > Save As...* functionality.

Create the Supporting Text Fields

- 3 Click on the *Text* tool in the toolbox and click on the CLARiSOFT background area to place the field. As this text is not printed but used instead within another printed field, it is OK, and normal practice, to place this off the image design area. The default text should read 'Box' (note the trailing space). Give this field a friendly name of 'txtBeginningText' on the *General* tab and select the *Non-printed* option on the same tab. Click *OK* to save the properties and note that the field is now be grey in colour to indicate a non-printed field.

Repeat the steps in point three above to create another text field called txtEndingText that has the default text of ' of 10' (note the leading space) that is also non-printed. The two fields *Options* dialog boxes should look as follows:

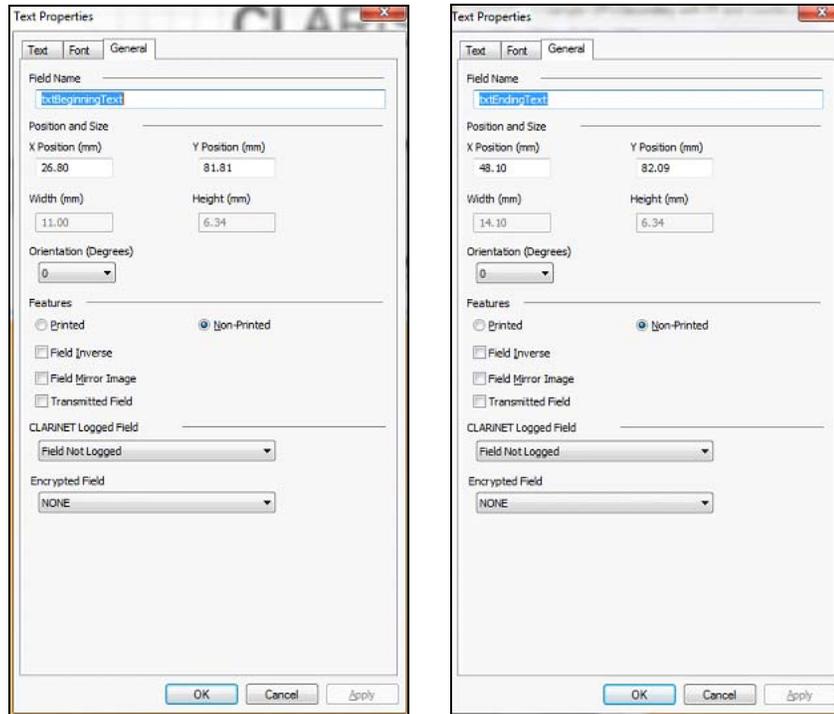


Figure 4-23: Text Properties

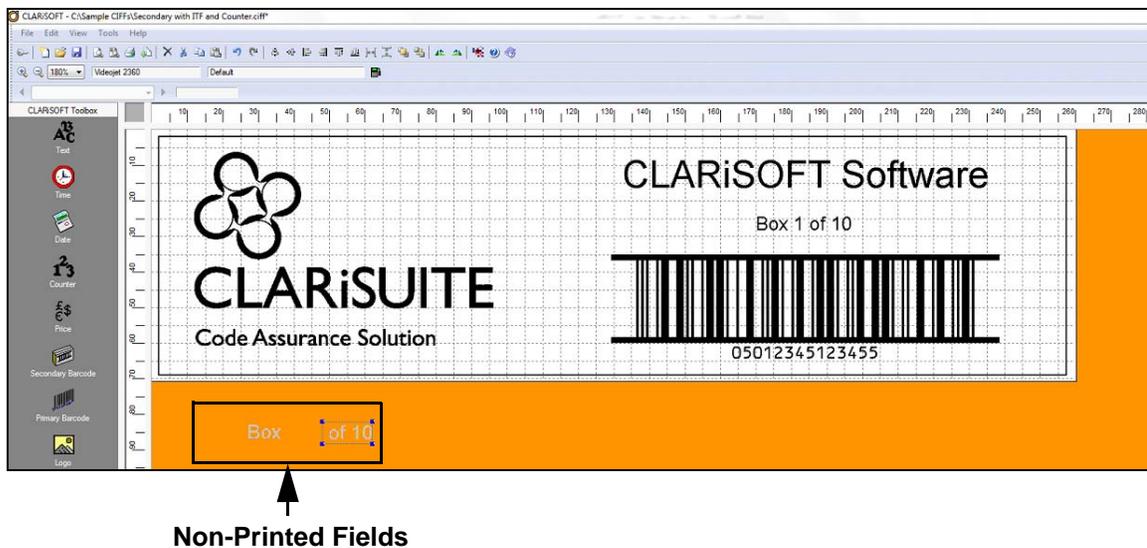


Figure 4-24: Image with Non-Printed Fields

Add a Counter Field

- 4 A counter field instructs the coder to increment a numeric / alpha / alpha-numeric field by a certain amount at each print. It is the coder that manages the incrementing – the message is not downloaded for each print.

Click on the *Counter* tool in the toolbox and then place the counter field next to the two supporting text fields created in the previous step.

- 5 Ensure *Numeric* is selected from the drop down list below *Type* on the *Numeric* tab of the *Counter Properties* dialog box. This tells the printer to print and increment a numeric field.
- 6 Set the *Number of Digits* to 2 (as the largest number that is printed is ‘10’).
- 7 Select the *No Padding* option as we do not want the number printed as ‘01’ or ‘ 1’.
- 8 Set the *Start Value* to 1 and *End Value* to 10 as we do not want to print a figure above 10 (the maximum number of boxes). The *Step Size* should be set to ‘1’ to tell the printer to increment the number by one at each print. The *Numeric* tab of the *Counter Properties* dialog box should now look like:

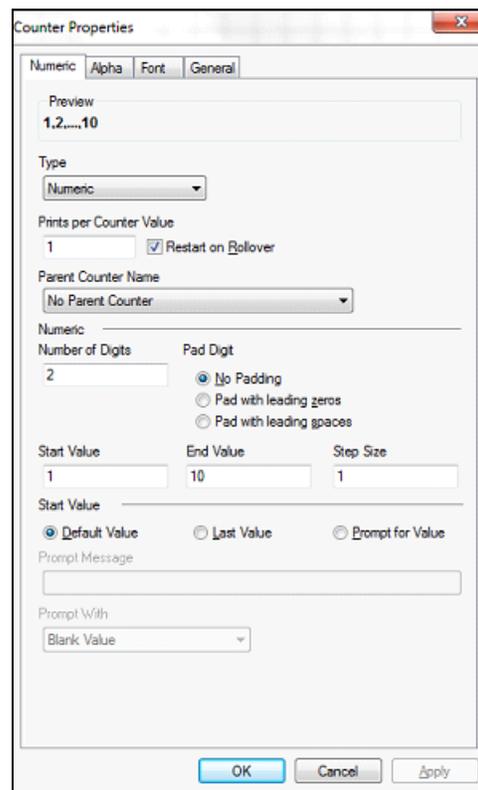


Figure 4-25: Counter Properties

- 9 Set the font to 15 point and on the *General* tab supply a friendly field name of ‘cntBoxNo’ and specify that this field is *Non-printed*.

Create a Merge Field

- 10 To ensure the label is printed as clearly and professionally as possible with correct character spacing, now build a 'Merge Field' consisting of the beginning text, counter, and ending text concatenated together. Double click on the text field *Box 1 of 10* to display its properties dialog box. Alternatively, right click on it and select *Properties...* from the pop-up menu that appears.
- 11 The *Type* drop down list is currently set to *Fixed Text* (the default). Change this to *Merge Field* by selecting this option from the list. A new button entitled *Merge...* appears.

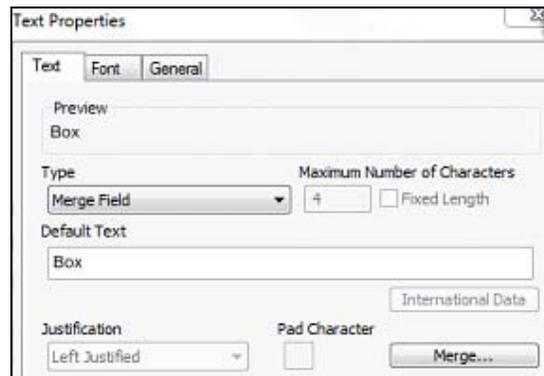


Figure 4-26: Merge Field

- 12 Click on the *Merge...* button to display the *Field Merger*.

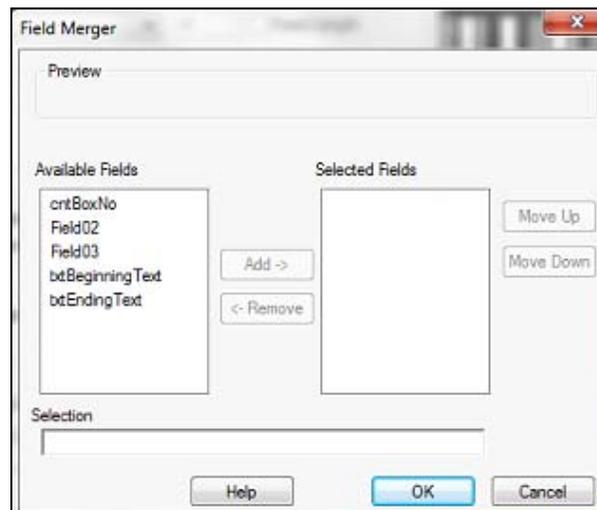


Figure 4-27: Field Merger

- 13** A list of available fields that can be merged appear in the left list box (a good example of why friendly field names are so important). Select and add the fields that need to be merged so that they appear in the *Selected Fields* list box. The sequence in which they are concatenated can be altered using the *Move Up* and *Move Down* buttons.

Add the *txtBeginningText*, *cntBoxNo* and *txtEndingText* to the *Selected Fields* list box and sequence them so that the *Field Merger* looks as follows.

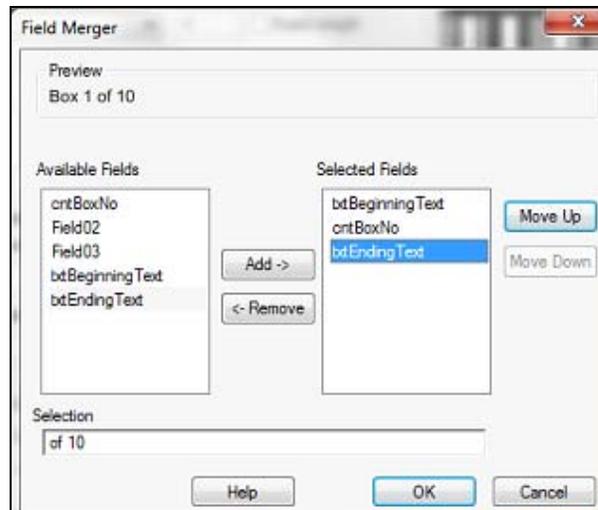


Figure 4-28: Order Selected Fields

Click *OK* to close the *Field Merger* and *OK* again to close the *Text Properties* dialog box.

- 14** The image file is now completed. At every print, the merge field displays the correct box number based on the Non-Printed counter field.



Figure 4-29: Final Image with Merged Fields

- 15** Save the image (*File > Save*).

CLARiSOFT offers flexible printing options that fall primarily into offline and online modes:

- **Offline:** The required image files are transferred to the coder via a storage device such as a USB stick and stored in the coder's memory for future use.
- **Online:** The image file is transferred to a device via TCP/IP or RS232 serial cable for printing.

Many printing and image file management features are coder specific. Please check the specific features of your coder to understand capabilities.

CLARiSOFT can also print to Windows printers using the standard Microsoft Windows printer drivers and print management functions.

Offline Printing

When offline printing, it is necessary to transfer the image file or files to the required coder or coders and use the features of the coder to transfer the image file to the coder's memory. Once in memory the image file can be retrieved and printed upon demand.

Please consult your coder's documentation to understand its file management capabilities and processes required to transfer the image file from the storage device to the coder.

If CLARiSOFT is used to modify the image file then the image stored in the coder will need to be replaced with the new image to pick up the changes. Furthermore, the new image will need to be re-selected for printing at the coder interface.

Images should never be transferred from a coder to a memory stick for editing in CLARiSOFT - this usually results in an image being rotated by 90 degrees. Instead, edit the file originally created by CLARiSOFT.

Download a Job File using USB Memory Stick

Do the following tasks to download a job file from the PC to the printer using a USB memory stick:

- 1 Insert the USB memory stick into the PC.
- 2 On the *File* menu, click *Job Download*.

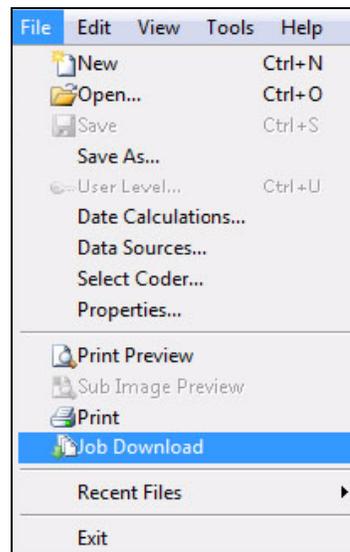


Figure 5-1: Job Download

- 3 The *Download* dialog box appears.

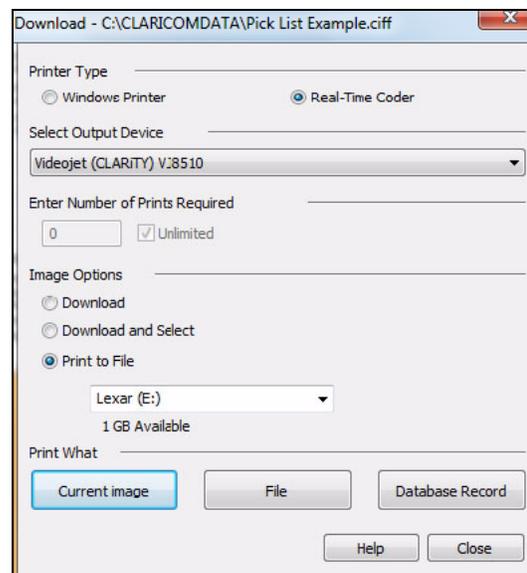


Figure 5-2: Download Dialog Box

- 4 Select *Real-Time Coder* under *Printer Type*.

- 5 Make sure that the correct printer is displayed under *Select Output Device*.

Note: If the correct output device is not selected, the image will not be correct for the printer.

- 6 Select *Print to File* under *Image Options*.
- 7 Select the USB memory device to use from the drop down list.

Note: The 'Print What' option will not be available until a suitable memory device is selected.

- 8 To download only the currently opened job file, select *Current Image* under *Print What?*.

To download multiple job files that have been saved to the PC, select *File* and navigate to the location in the PC where the files are stored. Highlight the jobs to be transferred and click *Open*.

- 9 The *Job Selection Confirmation* dialog box appears.



Figure 5-3: Job Selection Confirmation

- 10 Click *OK*. CLARiSOFT displays the download progress. Click *Close* when the download is complete.

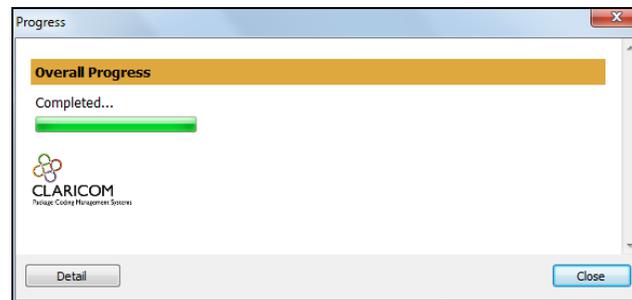


Figure 5-4: Download Progress

**Caution**

When transferring an image using a USB memory stick, failure to use *Print to File* procedure will result in errors and rotated images.

- 11 Remove the USB memory stick from the PC.

Online Printing

Online printing offers increased levels of flexibility and functionality by allowing an image file to be transferred directly from CLARiSOFT to the coder over TCP/IP or an RS232 Serial cable. This option requires the coder to be connected either to an Ethernet network or directly to the computer running CLARiSOFT.

CLARiSOFT Print Manager, a standalone software application installed at the same time as CLARiSOFT, offers online printing functionality of image files without the requirement of first opening the files in CLARiSOFT. This reduces the risk of undesired or accidental changes to the image file contents whilst open in CLARiSOFT.

For more information refer to Chapter 9, “CLARiSOFT Print Manager”.

Configuring Printer Communications

Connection must be established to the required non-Windows, online printer to enable online printing directly from CLARiSOFT.

Within CLARiSOFT click on the *Tools* menu and then *Options...* to display the CLARiSOFT Options dialog box.

Click on the *Printing* tab to display and edit the printer configuration options.

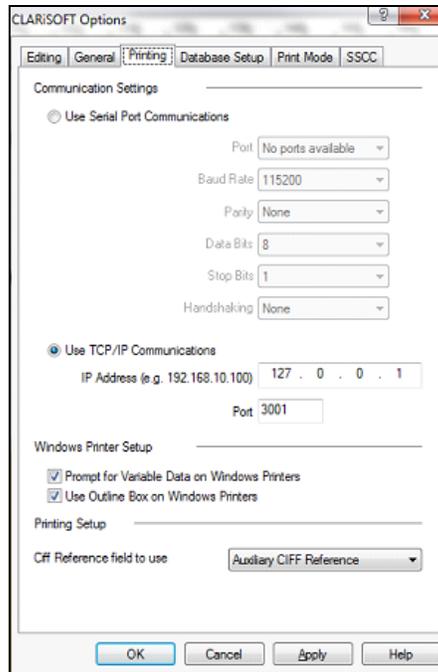


Figure 5-5: Communication Setup

Connection via Serial Port

If the required coder is connected via serial port select the option *Use Serial Port Communications*. The serial port configuration options is enabled and the TCP/IP options is disabled.

Enter the required serial settings that match those of the printer being printed to. Click *OK* to save the changes and close the dialog box. CLARiSOFT is now ready to print to this online printer via serial communications.

Connection via TCP/IP

If the required coder is connected over a network using TCP/IP select the option *Use TCP/IP Communications*. Serial communication options is disabled and the TCP/IP address and port fields is enabled.

Enter the TCP/IP address of the required printer and the communication port to communicate through. Click *OK* to save the changes and close the dialog box. CLARiSOFT is now ready to print to this online printer via TCP/IP communications.

Print Preview

CLARiSOFT offers a powerful print preview function to enable you to review the image before printing.

Click on the *File* menu and then *Print Preview* to view the print preview dialog box. This can also be achieved by clicking on the print preview button on the CLARiSOFT toolbar.

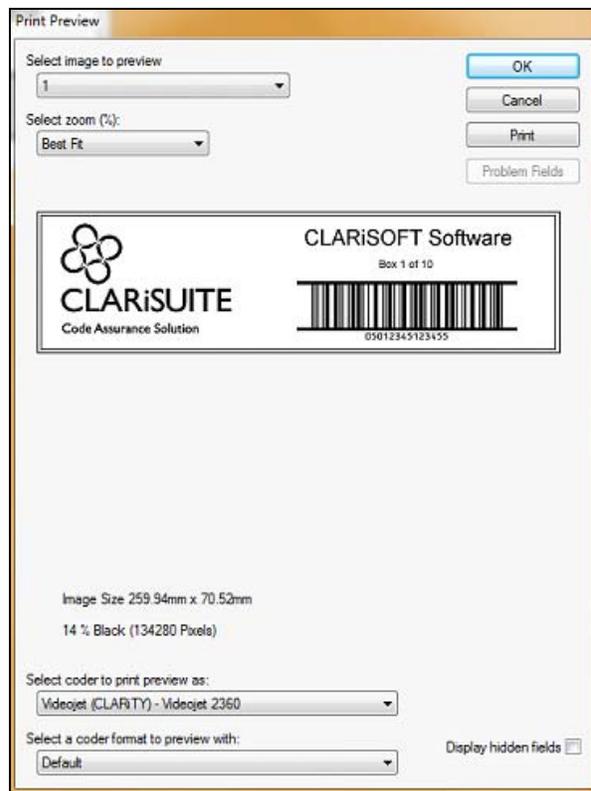


Figure 5-6: Print Preview

Select Image to Preview

Use this option if working with sub-images to select the sub-image to review.

Select zoom (%)

By default the *Best Fit* option is selected to display the entire image file in the print preview. The zoom level can be adjusted by selecting a pre-defined zoom level from the drop down list. Left or right-clicking on the preview is also zoom in and out.

Image Attributes

The image size and percentage of image that is printed is displayed below the preview. This is useful to allow you to reduce the amount of ink used. The number of 'Pixels' indicates the amount of ink which is used for printing the current message – this is used to calculate the approximate number of prints achievable per unit (bottle, cartridge) of ink.

Preview As

This option allows to preview the image as it would appear printing on a different coder. CLARiSOFT reformats the design to match the coder's capabilities. If CLARiSOFT perceives that printing errors occurs (fields don't fit, unsupported fonts, etc.) the preview tool displays an error report with a detailed list of reasons. The *Problem Fields* button also displays the error report.

Coder Format Preview

The different formats / templates supported by the coder can be selected here to see the changes to the image that would occur if that format / template were used during printing.

The image below shows the preview of the previously created carton image (designed for a Videojet 2360 LCM) if it were to be printed on a Videojet 8510 TIJ. The image is too big for the 8510 even when selecting the 4-head format.

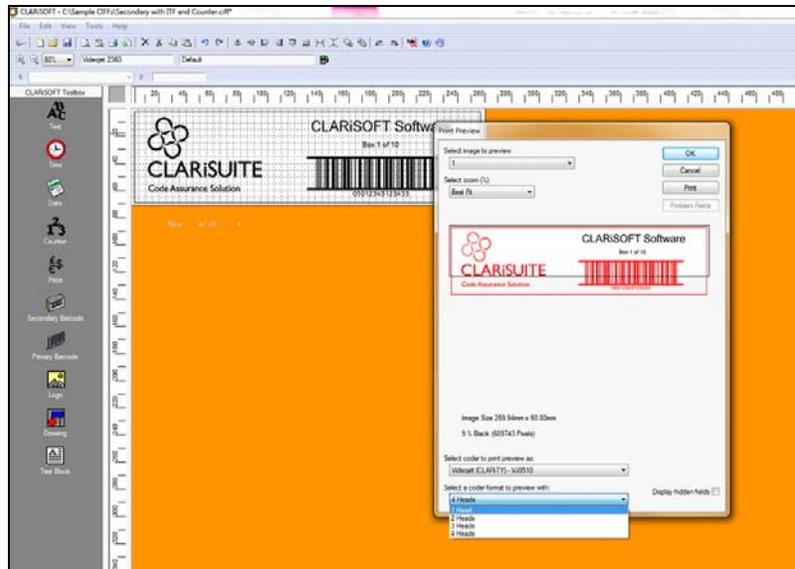


Figure 5-7: Coder Format Preview

Printing the Image

Select *File > Print* from the menu (or click on the *print* button from within the CLARiSOFT toolbar) to print an image.

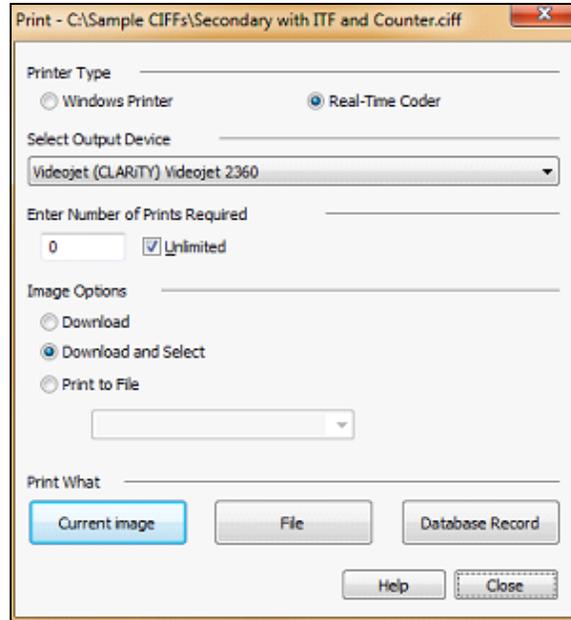


Figure 5-8: Print Image

Printer Type

Select the option to print either to a Windows printer or to a real-time coder. This tells CLARiSOFT if it should print to a regular desktop printer (such as a Laserjet) via the Windows printing sub-system or if it should download to the printer we established connection to earlier in this chapter (see “Configuring Printer Communications” on page 5-5).

Output Device

If printing to a Windows printer is selected, this list contains the printers configured within the Windows operating system in which CLARiSOFT is running (the same list of printers that would be available to applications such as Microsoft Excel or Word).

If the *Real-Time Coder* option is selected, this option is default to the coder for which the message has been designed. It is, however, possible to select another coder from within the list. Be aware that selecting another coder may seriously impact the format and content of the image file. Ensure you have previewed this image design on the required coder (using the print preview functionality) first.

Number of Prints

Depending on the coder selected it may be possible to request a specific number of prints. This is useful when working with a coder such as a standalone label printer and it is necessary to print multiple labels. This field is only enabled if the destination coder supports multiple print quantities.

Image Options

Only enabled if printing to a Real-Time Coder

- **Download:** Download the image to the coder and store in memory but do not select the job for printing.
- **Download and Select:** Download the job to the coders memory and select the job for printing.
- **Print to file:** Downloads the CIFF file to external storage device. Creates a folder called *Jobs* from the root of the storage device and stores the selected CIFF file in that folder. Also creates folders called *Fonts* and *Graphics* which store any non-standard fonts and any graphics used in the image design respectively. Simplifies the offline process of transferring the image to the required coder. This is the recommended way to transfer jobs to a CLARiTY printer. Copying the CLARiSOFT CIFF file directly to a USB stick is not recommended.

Note: 'Download' is not prompted for any variable information at the PC, however all variable information required by the image is prompted AT THE CODER.

Note: 'Download and Select' prompts for any variable information required by the image AT THE PC, and then download it to the coder as fixed text. If the image is subsequently selected at the coder, the variable information is not prompted.

Print What

- **Current Image:** Prints the currently opened image in CLARiSOFT.
- **File:** Allows you to select the CIFF file to print.
- **Database record:** Selects the CIFF file and external data to be printed from an external database. See Chapter 10, “CLARiSOFT Database Manager” for more information.

CLARiSOFT offers flexible date management functions that work in combination with the coders printing CLARiSOFT messages. These functions work to either completely remove the requirement to manually enter dates by automatically calculating the correct date or by strictly controlling dates that are manually entered by offering date selection rather than keyed data entry.

These functions remove the ability for an operator to manually enter the incorrect date.

User Entered Date

If the operator must manually enter a date, then CLARiSOFT can constrain these dates to a range of dates that can be selected from, rather than manually keyed in.

The following example shows the procedure to create a date field and calculate a range of dates based on it. The operator can choose a date from this calculated range, during job selection.

- 1 Click *File* > *New* to create a new image. Select the coder and image / size options as shown in Figure 6-1.

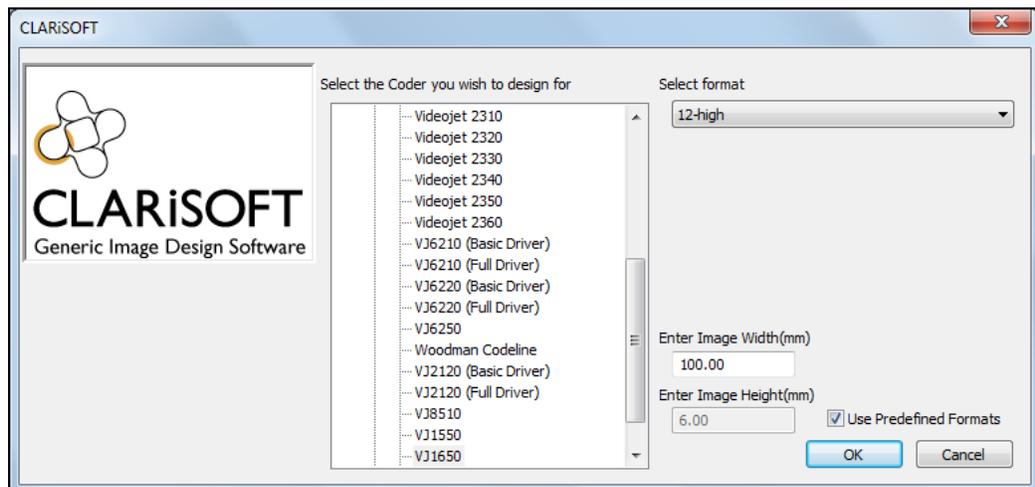


Figure 6-1: Select the Coder

- 2 Click *OK*.
- 3 Click on the *Date* tool in the toolbox. CLARiSOFT places the current date on the image design area and displays the *Date Properties* dialog box.
- 4 In *General* tab of the *Date Properties* dialog box, give this field a unique meaningful name ('dtUserEnt' in this example). See Figure 6-2.

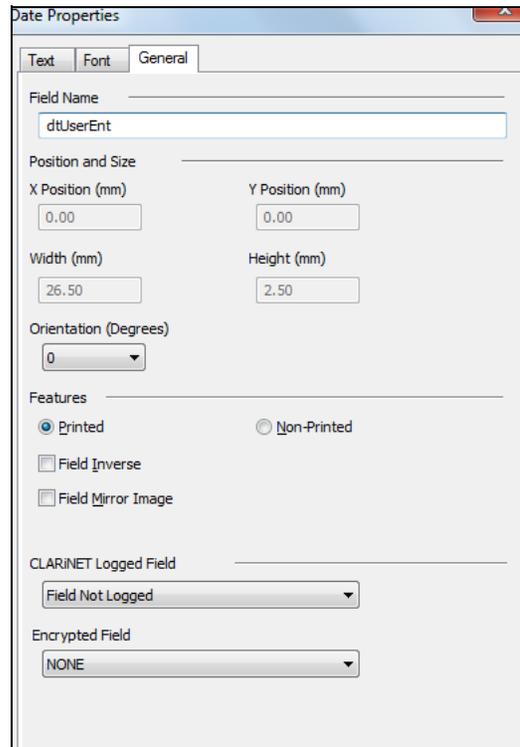


Figure 6-2: Date Properties

- 5 In the *Text* tab, select the option *User Entered Date* from the *Date Type* drop down list (see Figure 6-3). Selecting this option lets CLARiSOFT send the required commands to the coder to instruct it to prompt for a date selection during job set up.

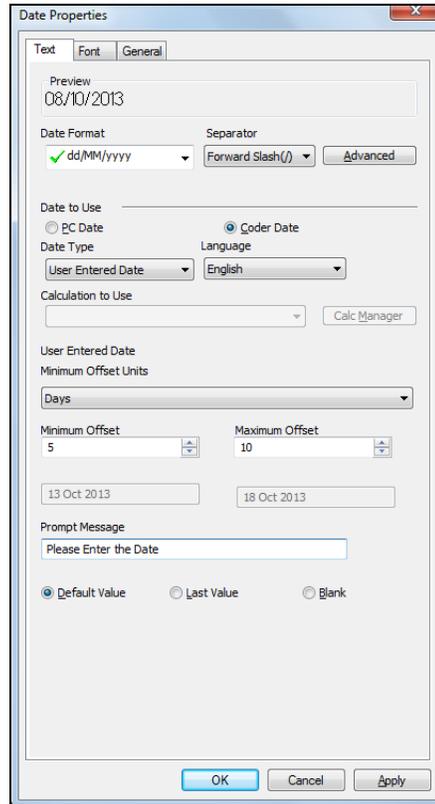


Figure 6-3: Date Properties-Text tab

- 6 Select *Coder Date* under *Date to Use*. By selecting this, the dates that the operator can select will be derived from current date in the coder rather than the current date in the PC.
- 7 In this example, we will generate a date using a date offset. A date offset is calculated from an offset value, which can be a number of days, months or years. We will generate a date, or range of dates using a defined offset period from the base date, defined in Step 6 (coder date).

Select *Days* from the *Minimum Offset Units* drop down list.

- 8 Select the minimum offset as '5' and maximum offset as '10'. CLARiSOFT calculates the offset dates based on the coder date. The operator will only be able to select a date between these calculated offset dates.

In this example, the operator will be able to select a date between 5 days and 10 days from the current date in the coder during job selection for printing.

- 9 Enter a prompt message that is to be displayed when the operator selects the job (*Please Enter the Date* in this example).

- 10 Save the image file to the disk. Name the file as 'User entd date'. Note that this will be the name of the job in the printer for selection, once we transfer this message to the printer.
- 11 Make sure that the computer running CLARiSOFT is connected to the coder.
- 12 Click *File > Print*. The *Print* dialog box appears.

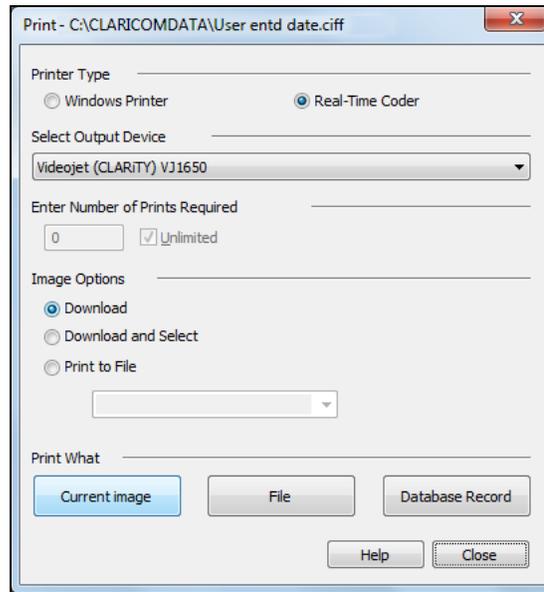


Figure 6-4: Print

- 13 Select *Download* under *Image Options*.
- 14 Select *Current Image* under *Print What*.
- 15 The *Job Selection Confirmation* dialog box appears. Verify that the preview is correct and click *OK*.
- 16 The job download starts. CLARiSOFT displays the progress. Click *Close* when the download is complete.

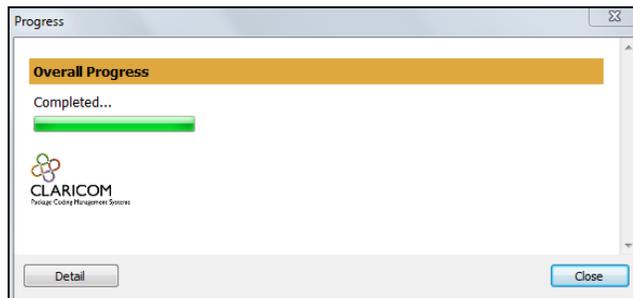


Figure 6-5: Download Progress

- 17 At the coder's user interface, touch the *Job* button. The transferred image appears in the job select list. Note that the job name 'User entd date' is the same as the CIFF file name given in Step 10.



Figure 6-6: Job Select

- 18 Select the job and touch *OK*.
- 19 The prompt message created in CLARiSOFT in Step 9 appears (see Figure 6-7).



Figure 6-7: Prompt Message

- 20 Touch *Edit*.

- 21 The coder calculates a range of dates that can be selected based on the current coder date and the offsets that we defined earlier.



Figure 6-8: Select Date

- 22 Select the required date from the available dates by touching the required date. The dates between the minimum and maximum offset days are displayed in white and are available for selection. All other dates are disabled and cannot therefore be incorrectly selected by the operator. The current coder date is shown in a red box and the current selection in blue. Touch *OK*.
- 23 A tick mark appears showing that this user entered field has been completed. The date is changed to the selected date in the preview.



Figure 6-9: Updated Date

- 24 Touch *OK*. The print preview is displayed.

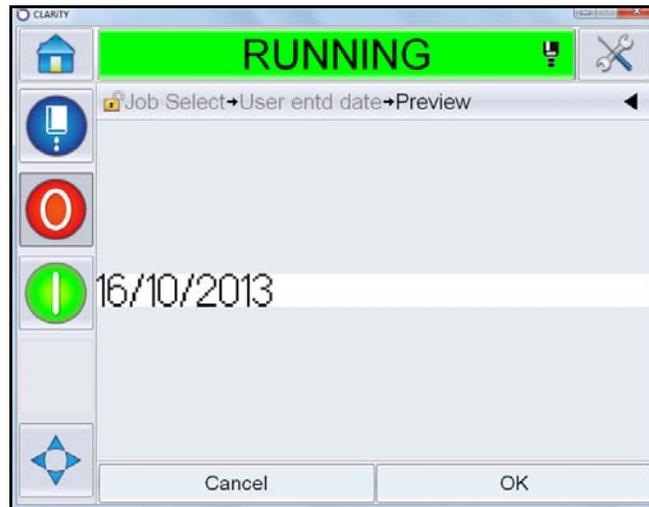


Figure 6-10: Job Preview

- 25 Touch *OK* to close the preview display. The job with the required date is now ready for printing.

Chained Dates

A chained date is one which is calculated based on another existing date. In this example, we will create a *Sell By date* which is a calculated offset date from the current date. Then we will calculate the *Display Until date* which is a chained date, based on this sell by date.

- 1 Create an image selecting the *Coder* as Videojet 1650 and *Select format* as 12-high.
- 2 Create a fixed text field *Sell By* and name this field as 'txtSellBy' in the *General* tab.
- 3 Create another text field *Display Until* and name this field as 'txtDisplayUntil' in the *General* tab.
- 4 Create a date field to the right of 'txtSellBy' and name this field as 'dtSellBy' in the *General* tab. Leave all the parameters as default for now.
- 5 Create a date field to the right of 'txtDisplayUntil' and name this field as 'dtDisplayUntil' in the *General* tab. Leave all other parameters as default for now. The image design area should look like Figure 6-11.

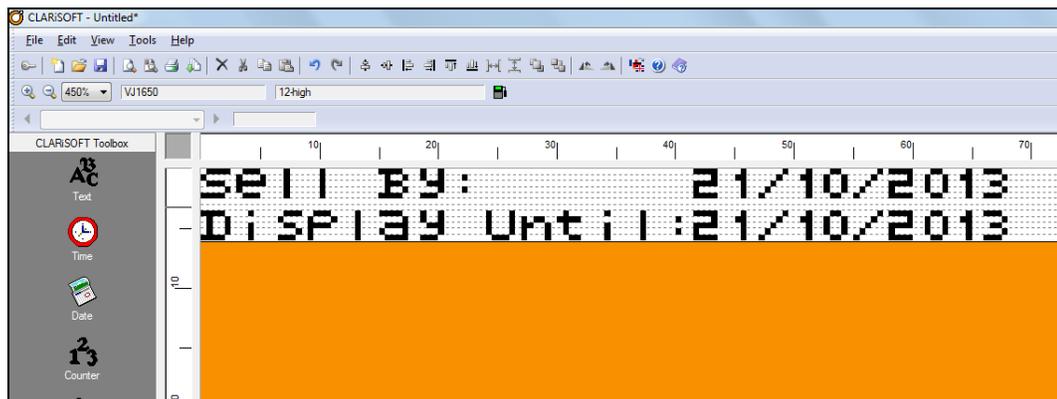


Figure 6-11: Date Field Image

We will now change the first date field 'dtSellBy' as a calculated offset date on the current date.

- 6 Double click the 'dtSellBy' field. In the *Date properties* dialog box that appears, from the *Date Type* drop down list, select *Calculated Date*. Click on *Calc Manager*.
- 7 Click *New* in the *Date Calculation Manager* dialog box to generate a new date calculation. A date calculation can be used more than once within a CIFF file.

- 8 In the *Date Calculation Properties* dialog box, enter the Calculation Name 'calcSellByOffset'. Leave the *Reference Date* as *Current Date* and select *Within Image* from the *Source* drop down list to tell CLARiSOFT to calculate a new date based on the current date in the existing image.

Note: Make sure that a unique, meaningful name is entered for the date calculation.

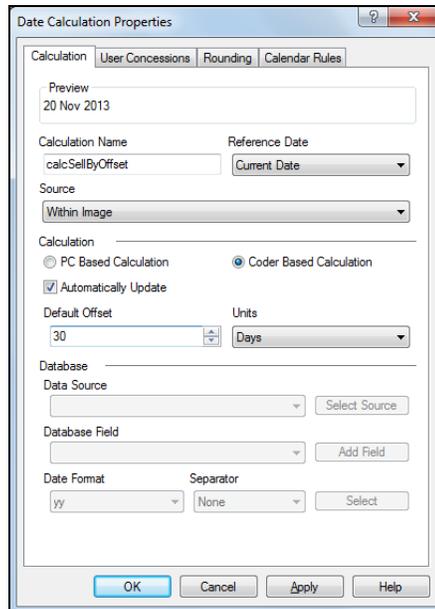


Figure 6-12: Date Calculation Properties

- 9 Set the *Default Offset* as '30' and *Units* as 'Days'. The 'Sell By' date will be calculated by adding 30 days to the current date.
- 10 Click *Apply* and then click *OK*.
- 11 The calculation name appears in the *Date Calculation Manager* dialog box. Click *OK*.

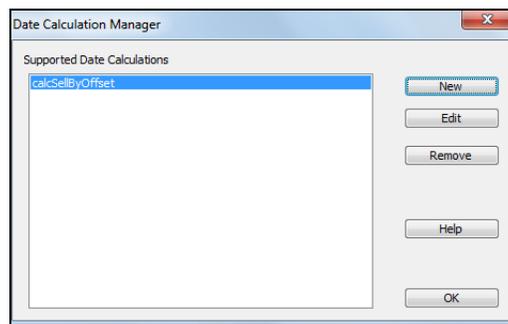


Figure 6-13: Date Calculation Manager

- 12 A preview of the calculated date appears in the *Date Properties* dialog Box. Click *OK*.

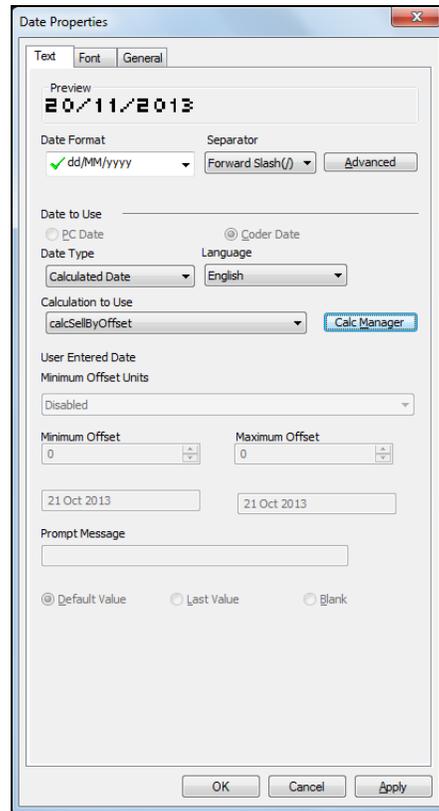


Figure 6-14: Date Calculation Properties

- 13 CLARiSOFT displays the calculated ‘Sell By’ date in the Image Design area. Note that the Display Until date is still the current date. In the following steps, we will calculate this date based on the ‘Sell By Date’.

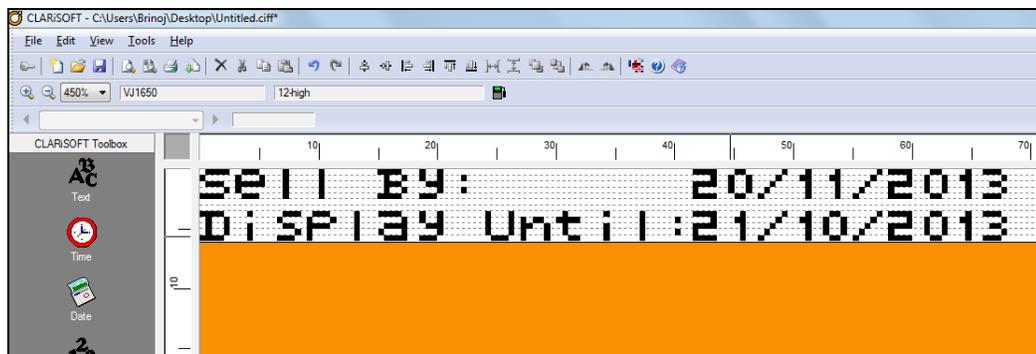


Figure 6-15: Chained Date based on another date

- 14 Double click on the 'dtDisplayUntil' field. In the *Date Properties* dialog box that appears, from the *Date Type* drop down list, select *Calculated Date*. Click on *Calc Manager*.
- 15 Click *New* in *Date Calculation Manager* dialog box to generate a new date calculation.
- 16 In the *Date Calculation Properties* dialog box, enter the *Calculation Name* 'calcDisplayUntil'. From the *Reference Date* drop down list, select 'calcSellByOffset' to tell CLARiSOFT that the calculation will be based on this date.
- 17 Select *Within Image* from the *Source* drop down list.
- 18 In the *Default Offset* box, select -2. This means the 'Display Until' date will be calculated by reducing two days from the 'Sell By' Date.

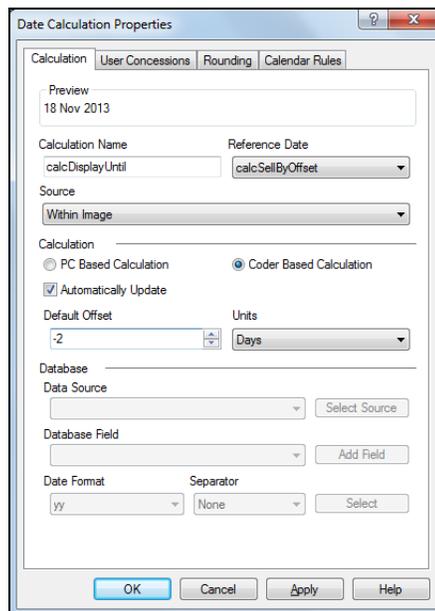


Figure 6-16: Chained Date based on another date

- 19 Click *OK* to exit the dialog box. Click *OK* to close *Date Calculation Manager* dialog box, which now has two calculation names in it.

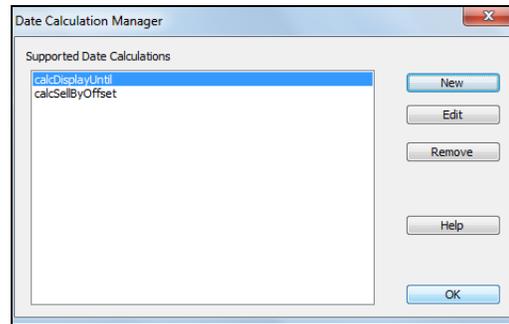


Figure 6-17: Date Calculation Manager

- 20 Click *OK* to close the *Date Properties* dialog box.
- 21 The image will now look like

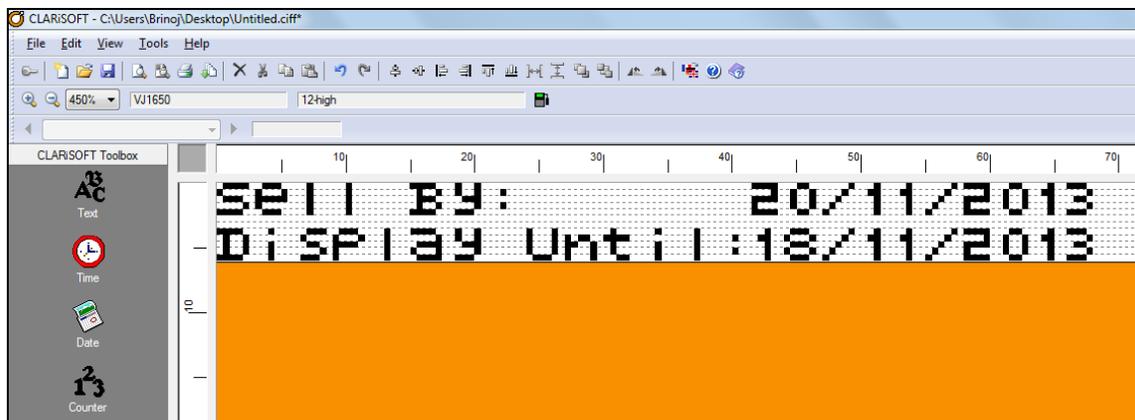


Figure 6-18: Final Image

Note that the Sell by date is 30 days after current date (which is 21/10/2013) and the display until date is 2 days before the Sell By date.

CLARiSOFT has the ability to link to external data sources to include dynamic data in messages at the time the job is downloaded to the printer. By default, CLARiSOFT uses its own database called 'CLARiSOFT Database' but can also be configured to use an external database if so desired.

Overview

Placing data that needs to be printed within a CIFF file can be inconvenient if that data changes with each new job / batch (such as prices, serial numbers or lot numbers). To open the CIFF file, edit the data and save, is inefficient and also introduces risk. Whilst editing the CIFF file it is possible to accidentally change field placement, data content etc. It may also not be desirable to give operators the ability to edit CIFF files.

CLARiSOFT comes with a powerful feature to avoid these issues – the ability to link fields within a CIFF file to a job database. With this functionality, the CIFF file will contain a mixture of static text that will not change and links to data in the database for the dynamic data. The data from the database is merged into the CIFF file before download.

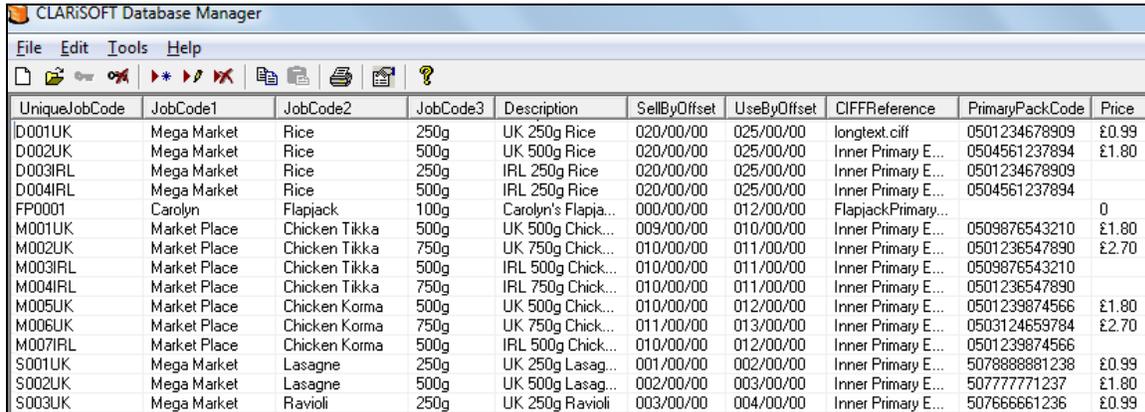
A database contains jobs and jobs contain the data that needs to be merged into the CIFF file. Each job can use a different CIFF file or a CIFF file can be used by multiple jobs – further increasing efficiency. Simply adding a job to the database or changing data in a job will result in an updated message being printed with no need to edit the CIFF file(s). See Chapter 9, “CLARiSOFT Print Manager” for information on CLARiSOFT Print Manager – a tool to print messages without having to open the file in CLARiSOFT.

A sample database is supplied with CLARiSOFT that shall be used in the following example. See Chapter 10, “CLARiSOFT Database Manager” for more information on administrating the CLARiSOFT Database and editing the job data contained within it.

The following sections explain how to link a CLARiSOFT CIFF file to data in the sample database.

CLARiSOFT Database Structure

CLARiSOFT is supplied with a sample database, that contains common data elements used in the product coding and marking industry (see Figure 7-1). You can configure this built-in, default database to suit your needs.



UniqueJobCode	JobCode1	JobCode2	JobCode3	Description	SellByOffset	UseByOffset	CIFFReference	PrimaryPackCode	Price
D001UK	Mega Market	Rice	250g	UK 250g Rice	020/00/00	025/00/00	longtext.cif	0501234678909	£0.99
D002UK	Mega Market	Rice	500g	UK 500g Rice	020/00/00	025/00/00	Inner Primary E...	0504561237894	£1.80
D003IRL	Mega Market	Rice	250g	IRL 250g Rice	020/00/00	025/00/00	Inner Primary E...	0501234678909	
D004IRL	Mega Market	Rice	500g	IRL 250g Rice	020/00/00	025/00/00	Inner Primary E...	0504561237894	
FP0001	Carolyn	Flapjack	100g	Carolyn's Flapja...	000/00/00	012/00/00	FlapjackPrimary...		0
M001UK	Market Place	Chicken Tikka	500g	UK 500g Chick...	009/00/00	010/00/00	Inner Primary E...	0509876543210	£1.80
M002UK	Market Place	Chicken Tikka	750g	UK 750g Chick...	010/00/00	011/00/00	Inner Primary E...	0501236547890	£2.70
M003IRL	Market Place	Chicken Tikka	500g	IRL 500g Chick...	010/00/00	011/00/00	Inner Primary E...	0509876543210	
M004IRL	Market Place	Chicken Tikka	750g	IRL 750g Chick...	010/00/00	011/00/00	Inner Primary E...	0501236547890	
M005UK	Market Place	Chicken Korma	500g	UK 500g Chick...	010/00/00	012/00/00	Inner Primary E...	0501239874566	£1.80
M006UK	Market Place	Chicken Korma	750g	UK 750g Chick...	011/00/00	013/00/00	Inner Primary E...	0503124659784	£2.70
M007IRL	Market Place	Chicken Korma	500g	IRL 500g Chick...	010/00/00	012/00/00	Inner Primary E...	0501239874566	
S001UK	Mega Market	Lasagne	250g	UK 250g Lasag...	001/00/00	002/00/00	Inner Primary E...	5078888881238	£0.99
S002UK	Mega Market	Lasagne	500g	UK 500g Lasag...	002/00/00	003/00/00	Inner Primary E...	507777771237	£1.80
S003UK	Mega Market	Ravioli	250g	UK 250g Ravioli	003/00/00	004/00/00	Inner Primary E...	507666661236	£0.99

Figure 7-1: CLARiSOFT Sample Database

The CLARiSOFT database structure and format is defined below:

- Each row refers to a job. A job must have a unique reference so that CLARiSOFT can identify a specific job from amongst all the jobs in the database. The job defines the dynamic data to be printed (i.e. price, lot number, etc.) as well as meta data that CLARiSOFT uses to manage the job such as unique job code, name of message file(s) used with this job and other data that is used when integrating this job data with multiple coders in a CLARiNET coder and messaging network.
- Each column, which has a unique name, holds a specific item of dynamic print data or metadata used within a job. CLARiSOFT requires a certain number of columns to exist to be able to function correctly, all other columns are user definable to enable a company to store the specific data they need for their jobs.

From Figure 7-1, it can be seen that each row refers to the print jobs for a company manufacturing food products and columns hold such information as the source data for barcodes, prices, product names, etc.

Linking fields to the CLARiSOFT Database

The following example shows how to link two fields in a message (Price and Use-by Date) to the corresponding data in the underlying CLARiSOFT sample database.

Designing the Image Template

In this example, we will use an existing CIFF file supplied with CLARiSOFT.

- 1 Open CLARiSOFT.
- 2 Open the file 'Outer Primary Example2.ciff' that is supplied with CLARiSOFT, from the default CIFF directory (typically C:\CLARICOMDATA). The following image will be displayed.

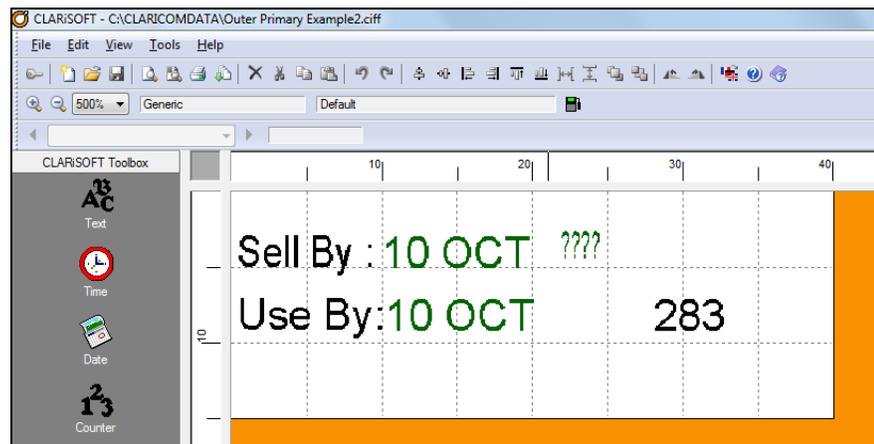


Figure 7-2: Open File

- 3 We will now delete the fields from this template to give us an empty file in which we will build our message. Select all the fields in the image design area and click *Delete* in the tool bar or use the *Delete* button on the keyboard.
- 4 In the following steps, we will create two static text fields displaying the text 'Use By' and 'Price'. This text will remain the same for all jobs using this template.

- 5 Click on the *Text* tool in the tool Box. Click on the Image Design Area where this field is to be placed. The *Text Properties* dialog box appears.
- 6 In the *Default Text* box, enter the text 'Use By'. Leave the other parameters as shown below.

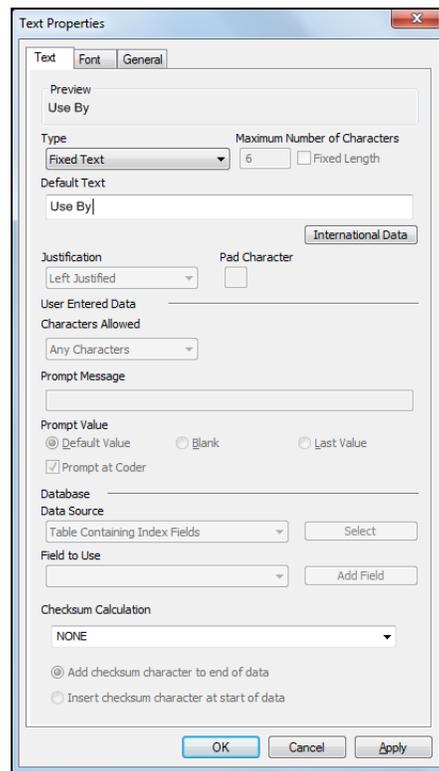


Figure 7-3: Text Properties- Text

- 7 In the *General* tab, name this field as 'txtUseBy'. Click *OK*.
- 8 Now we have the first static field in the image design area. Drag and arrange this field to a suitable place in the design area.

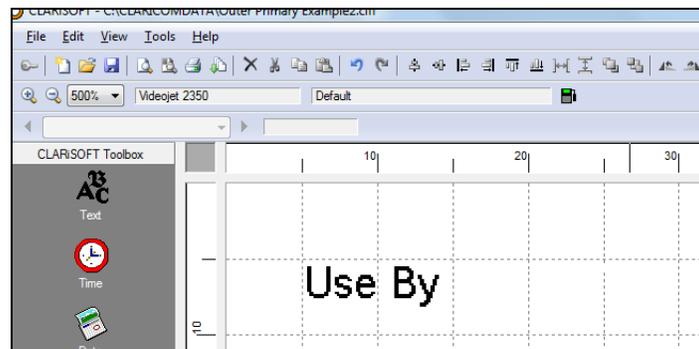


Figure 7-4: Static Field

- 9 Create a second text field following the steps from Step 5 to Step 7 with a default text 'Price' and a field name 'txtPrice'.
- 10 The second static text field is created. Drag and place this field under the first static text field 'Use By' and align properly.

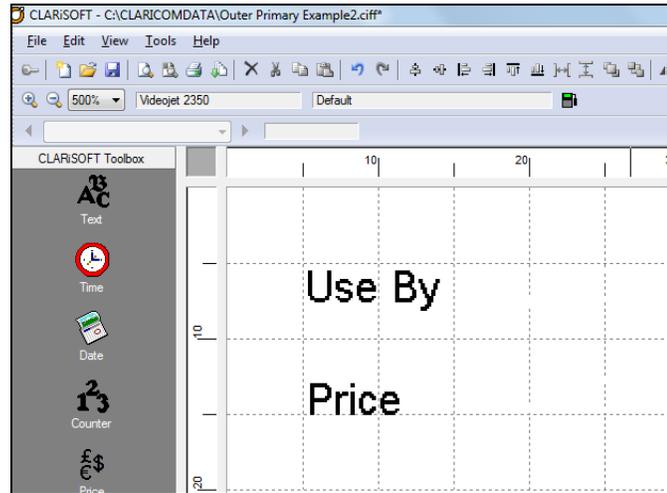


Figure 7-5: Second Static Text Field

- 11 Now we will create two fields which, when linked to the database, will contain the data from the CLARiSOFT database relating to the selected job. See later for details on how to select a job.

Click on the *Date* tool in the tool box and place it to the right side of the text 'Use By'. The *Date Properties* dialog box appears.

- 12 Select the *Date Format* as 'dd/MM/yy'. Leave the other parameters as shown below.

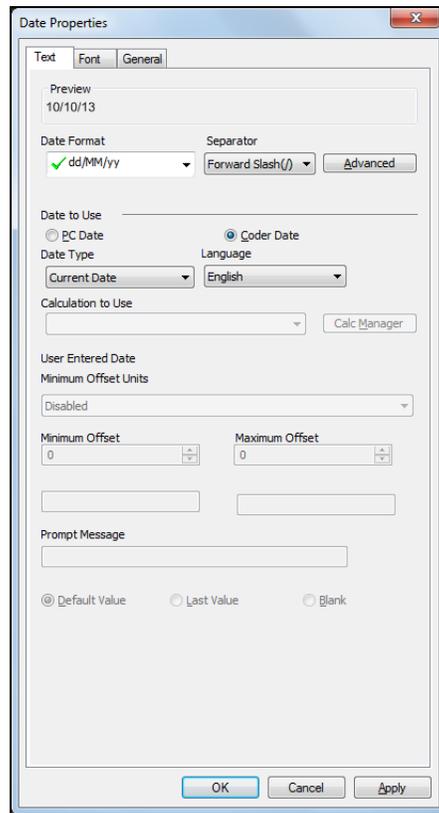


Figure 7-6: Date Properties

- 13 In the *General* tab, name this field as 'dtUseBy'.

- 14 Click *OK*. The date field is created. Note that this is showing the current date, until we link this to the CLARiSOFT database.

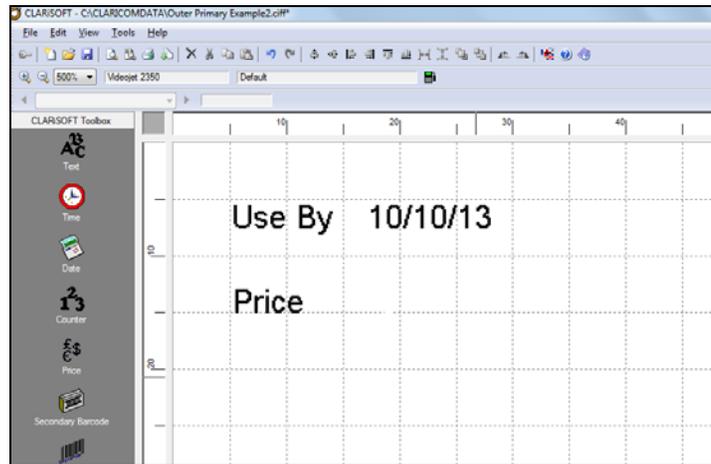


Figure 7-7: Date Field Generated

- 15 Click on the *Price* tool in the tool box and place it to the right side of the text 'Price'. The *Price Properties* dialog box appears. Select *Fixed Text* from the *Type* drop down list. Enter 10.00 in *Default Text*. Leave other parameters as shown below.

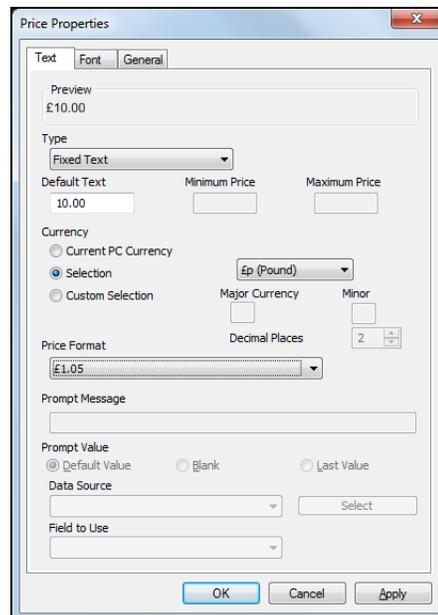


Figure 7-8: Price Properties

- 16 In the *General* tab, name this field as 'prcItemPrice'.
- 17 Click *OK*. The price field is created in the image design area. Note that this is a static field, until we link this to the CLARiSOFT database.

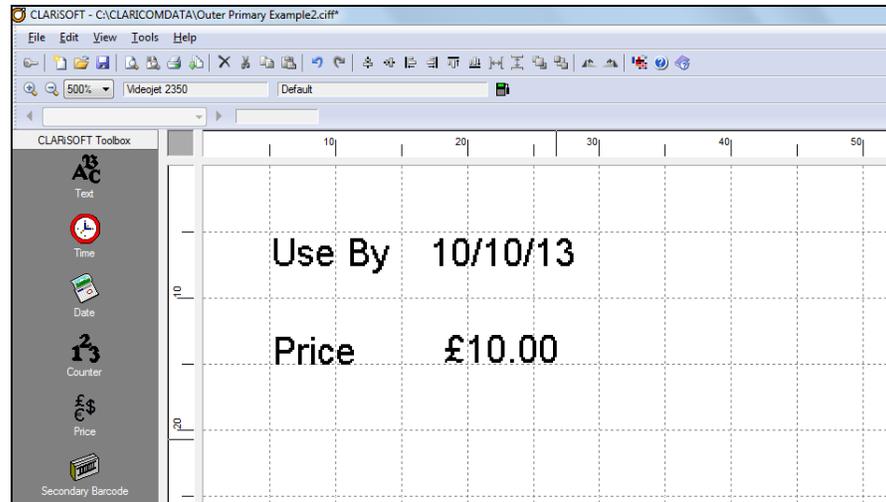


Figure 7-9: Message Template

Linking the CIFF to Jobs in the Database

A CIFF file can be used by multiple jobs in the database thus allowing different data for different jobs. CLARiSOFT needs to know which CIFF file should be used with the job and this is performed by storing the name of the associated CIFF file within the job record in the CLARiSOFT database. The CLARiSOFT database uses a specific field to store the name of the CIFF, by default this is called the 'CIFFreference'.

In certain instances, multiple CIFF files may be used per job i.e. when running CLARiNET and multiple coders are used on the line for the same job. When the job is selected the correct CIFF file is download to each coder. This is supported by storing the name of each CIFF in a different field in the job record. Up to 5 different CIFF references can be stored and used within a job.

It is therefore important, when creating a CIFF that is linked to a job in a database, to correctly specify which CIFF reference field in the database should be used to store the name of the CIFF file.

This linking is performed as follows.

In CLARiSOFT, navigate to *Tools > Options > Printing*. Under *Printing Setup*, select *CIFF Reference* from the drop down list. This is the reference field for the primary CIFF file. The other fields are used if there is a second and third coder in use in the job.

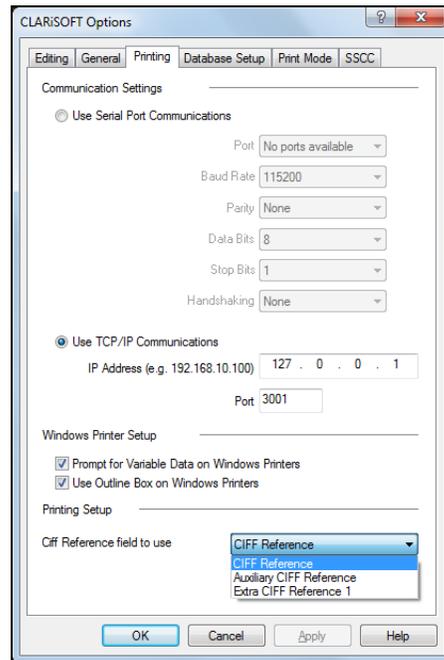


Figure 7-10: CLARiSOFT Options

Now, we will link the date field and price field to the CLARiSOFT database. Note that the CLARiSOFT sample database already contains jobs assigned to this template and hence why this particular CIFF file was used for this example. When we link these fields to the database, CLARiSOFT searches for jobs containing *this* CIFF file name in the CIFFReference column of the database and returns the values to be used by the 'dtUseBy' and 'prcItemPrice' fields. Note that these data fields already exist in the sample database.

- Double click on the *price field* 'prcItemPrice' that was previously created. The *Price Properties* dialog box appears.

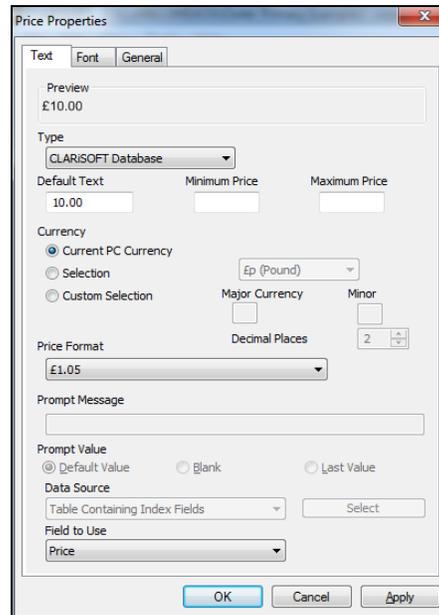


Figure 7-11: Price Properties

- From the *Type* drop down list, select *CLARiSOFT Database*. This directs CLARiSOFT to fetch the price data which corresponds to this job from the database.
- From the *Field to Use* drop down list, select *Price*, which is the name of the field containing the data from the database.

- 21 Click *OK*. The 'prcItemPrice' field turns green indicating that it is linked to a database.

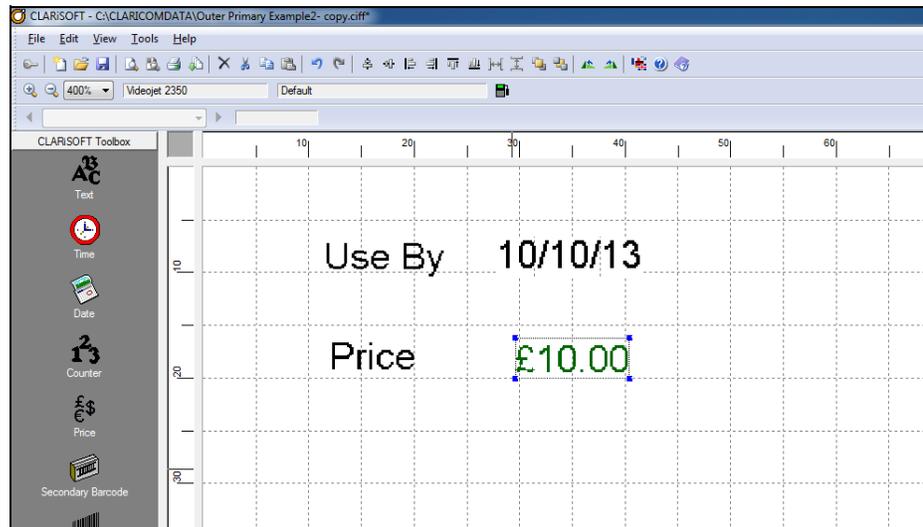


Figure 7-12: Linked Price Value Field

- 22 Now we will link the date field to the underlying data in the database.

Note: Linking date fields to underlying data in the database is performed differently to other types of linked fields.

- 23 Double click on the *date field* 'dtUseBy' that was previously created. The *Date Properties* dialog box appears.
- 24 From the *Date Type* drop down list, select *Calculated Date*.
- 25 Click *New* in the *Date Calculation Manager* dialog box.

- 26 In the *Calculation Name* box, enter the name 'calcUseBy'.

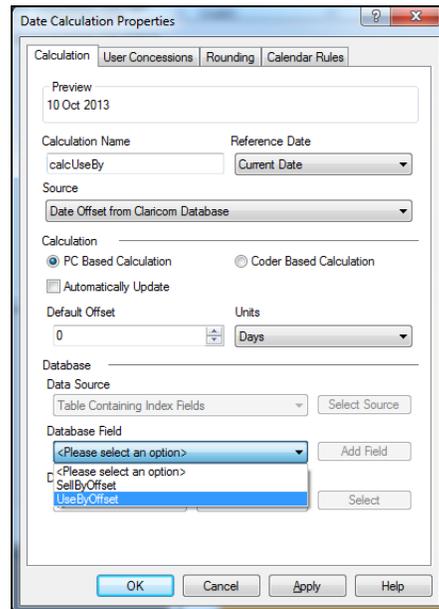


Figure 7-13: Date Calculation Properties

- 27 From the *Source* drop down list, select *Date Offset from Claricom Database*. Leave the *Default Offset* as '0', as the offset date will be calculated from the use by date values present in the Database.
- 28 From the *Database Field* drop down list, select 'UseByOffset'. This is the name of the field in the database that we wish to link to. The date for each job will be calculated by adding the offset dates extracted from the database to the date specified in the *Reference date* drop down list (see Figure 7-13).
- 29 Click *OK*. The calculation name appears in the *Date Calculation Manager* dialog box.

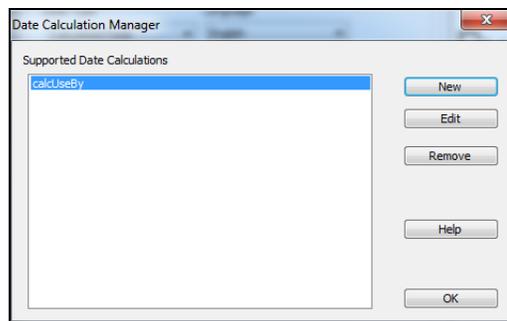


Figure 7-14: Date Calculation Manager

- 30 Click *OK* to close the *Date Calculation Manager* dialog box. Click *OK* to close the *Date properties* dialog box. The 'Use By Date' field in the image design area changes its color to green, indicating that it is linked to a database.

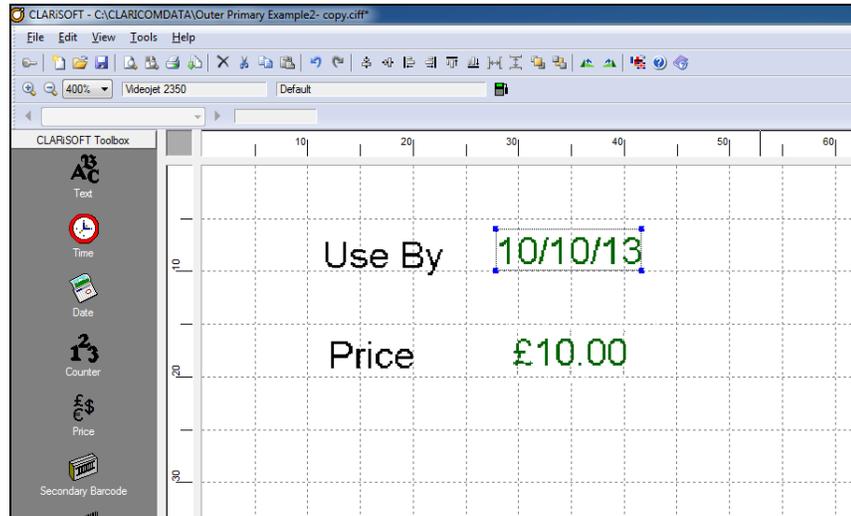


Figure 7-15: Linked Use By date field

- 31 Both the fields have been now linked to the database. Save the image.

Note: It is also possible to link directly to an explicit date in the database. To do this, choose the 'pre-calculated date from CLARiCOM Database' option from the 'Source' drop down list in the 'Date Calculation Properties' dialog box.

- 32 Make sure that the *Database Viewer* Toolbar is visible by selecting *View > Database Viewer*.

The *Database Viewer* is enabled after the image is saved. There are two jobs in the database related to this CIFF reference. These job codes are listed in the *Database Viewer* drop down list.

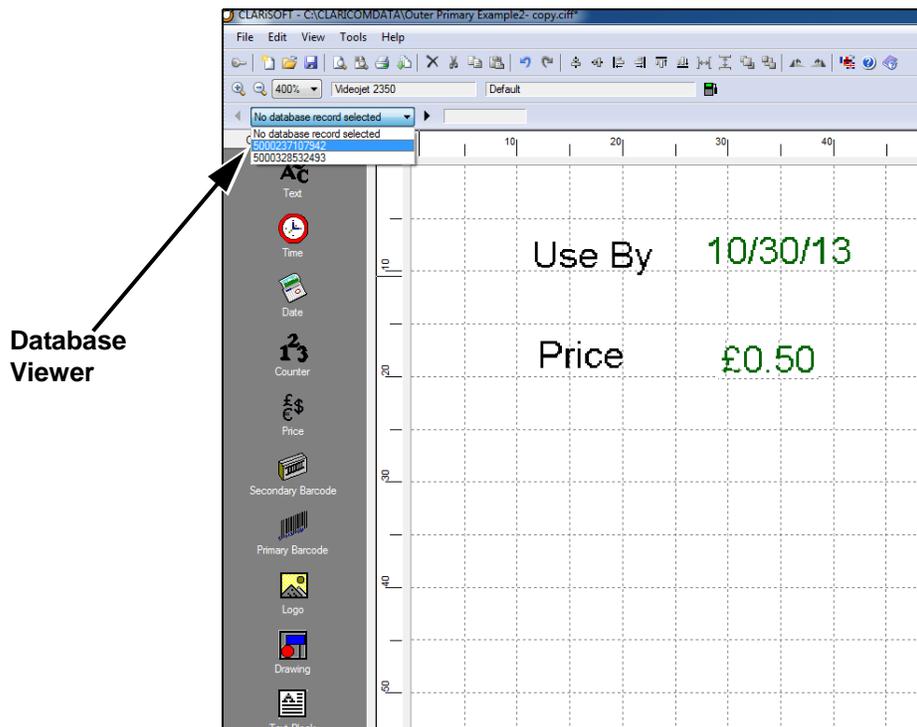


Figure 7-16: Database Viewer

Note: The database viewer will only function correctly if the current CIFF file has been saved and matches a CIFF file name stored in the database.

- 33 Select a job that references this CIFF file by selecting the first job code from the drop down list in the database viewer. Both the linked data fields, the 'dtUseBy' and the 'prcItemPrice' fields, are updated to reflect the corresponding values from the selected job.

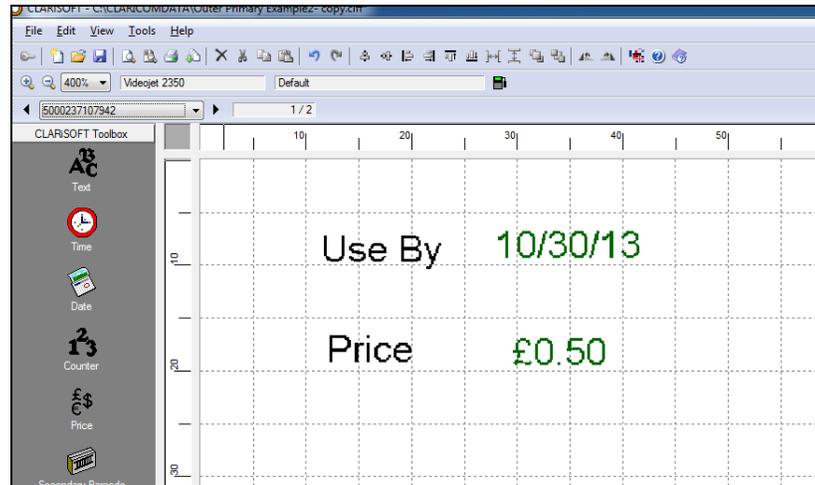


Figure 7-17: Job Code 1

Note: The price values defined in the database are 50 and 35 respectively. Since we selected the format of the currency to two decimal places, CLARiSOFT considers the last two digits in the database as the decimal values. Ensure that the format defined in the properties dialog box is the same as the format defined in the database.

- 34 Scroll between the records in the database using the left and right arrows in the job selector or select a specific record from the drop down list. Click on the right arrow of the 'job selector'. The next job in the database that references this CIFF file is displayed and the linked field values are updated. The jobs are displayed in the drop down list sorted in ascending job code order. The 'record number' indicates that this is the second job out of two available jobs in the database that references this CIFF file.

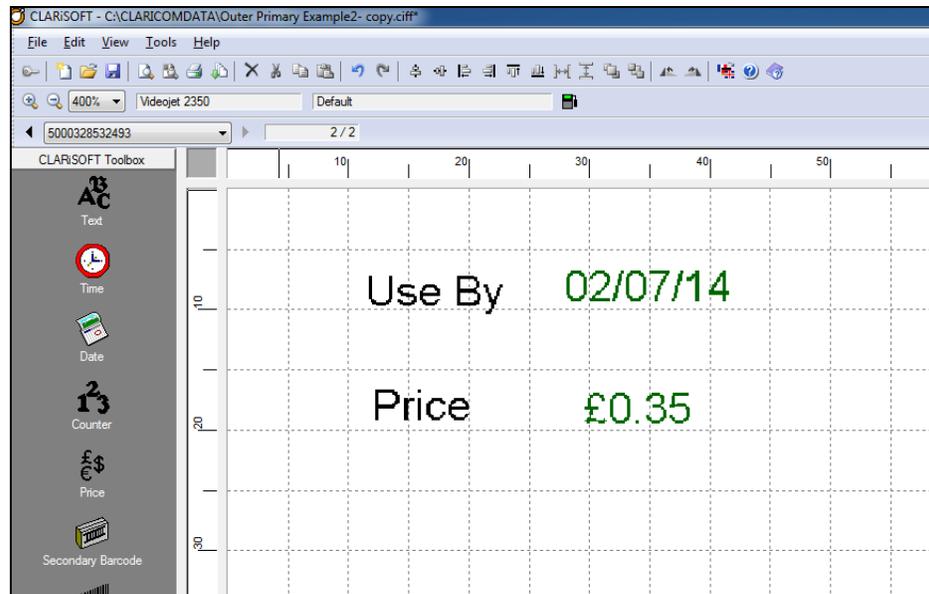


Figure 7-18: Second Job

Open Database Connectivity (ODBC)

Similar to its ability to work with its own database, CLARiSOFT can also use any database that is ODBC compliant. Once CLARiSOFT is linked to the external ODBC database, the data fields can be managed in the same way.

Linking CLARiSOFT to an external ODBC database

- 1 Open CLARiSOFT.
- 2 Navigate to *Tools > Options > Database Setup*.
- 3 Select *User Specified Data Source* under *Where is my Database?*.

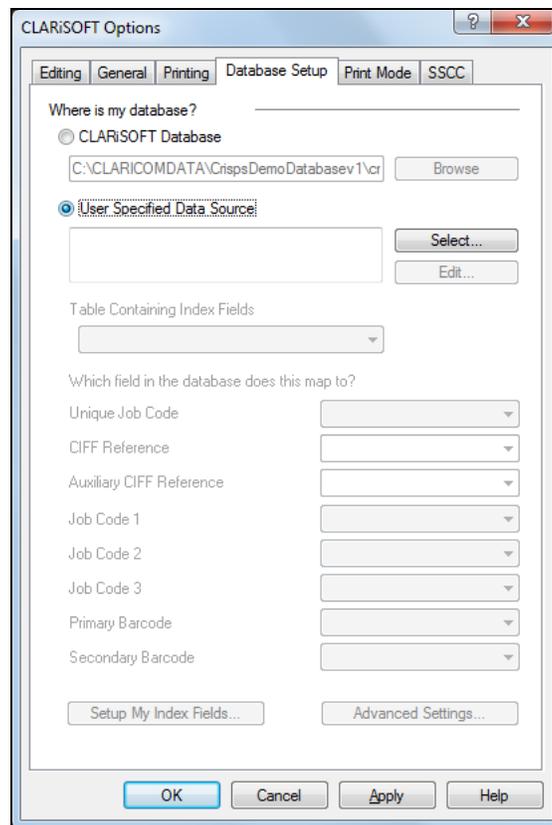


Figure 7-19: Linking to External Database

- Click *Select*. The *Data Link Properties* dialog box appears.

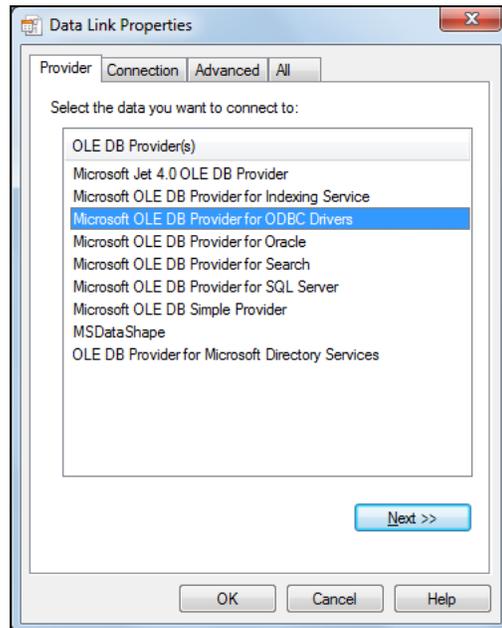


Figure 7-20: Data Link Properties - Provider

Note: The content of the data link property list is dependent on the drivers installed on the machine running CLARiSOFT. The following screens are dependent on the type of external ODBC database that is being connected.

- Select the required Database provider from the list. This needs to match the ODBC database that will be accessed. Click *Next*.

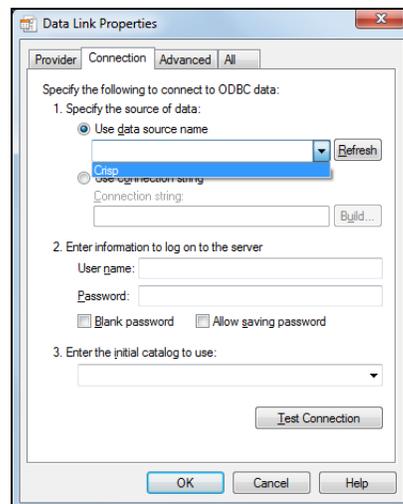


Figure 7-21: Data Link Properties- Connection

- 6 Insert the connection details required to access the database on this screen.
- 7 Click on the *Test Connection* button. The message *Test Connection Succeeded* appears.
- 8 Click *OK*. The database link will appear in the *CLARiSOFT Options* dialog box. Click *OK*.
- 9 Select the required table containing job data from the drop down list *Table Containing Index Fields*.
- 10 As the column names in the external ODBC database may differ from CLARiSOFT database, perform mapping of columns by selecting the fields in the database from the drop down lists under *Which field in the database does this map to?*

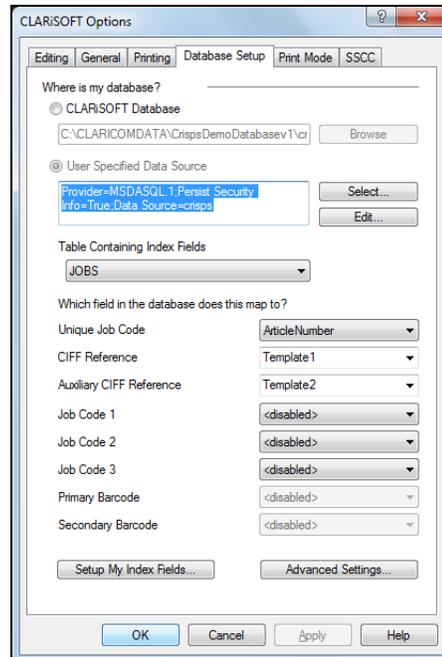


Figure 7-22: Options

- 11 Click *OK*.

Advanced Message Design

8

CLARiSOFT offers powerful message design features to increase assurance that printed codes are correct by minimizing, or restricting, the amount of operator-entered information. This chapter contains some advanced message design examples to demonstrate how to use these features.

User Entered Field- Pick List

To increase Code Assurance, it may be beneficial for an operator to select an entry from a previously determined list. In the following example, we will create a pick list in CLARiSOFT. The operator, during job selection, will be prompted to select an option from the list according to the product being coded.

We will create two fields: the first a fixed text field stating 'Factory Location' and the second a pick list from which the operator will pick the factory location during job setup.

- 1 Open CLARiSOFT.
- 2 Click *File > New* to create a new image. Select the coder and image / size options as shown in Figure 8-1.

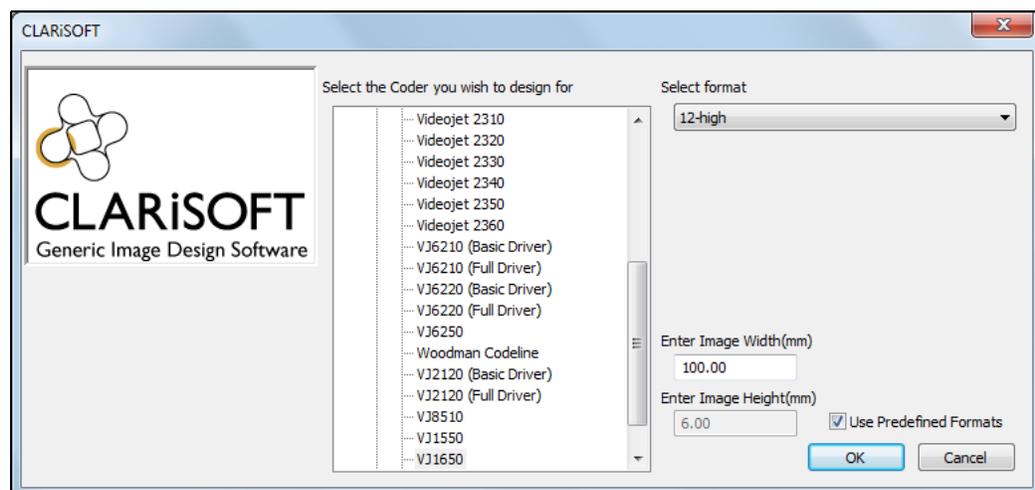


Figure 8-1: Select the Coder

- 3 Click *OK*.

- 4 Click on the *Text* tool in the toolbox. A text field is added to the image and the *Text Properties* dialog box appears.
- 5 In the *Default Text* box, enter the text 'Factory Location'.
- 6 In the *General* tab, name this text field 'txtFacLoc'.
- 7 Click *OK*. The first text field is displayed in the image design area.

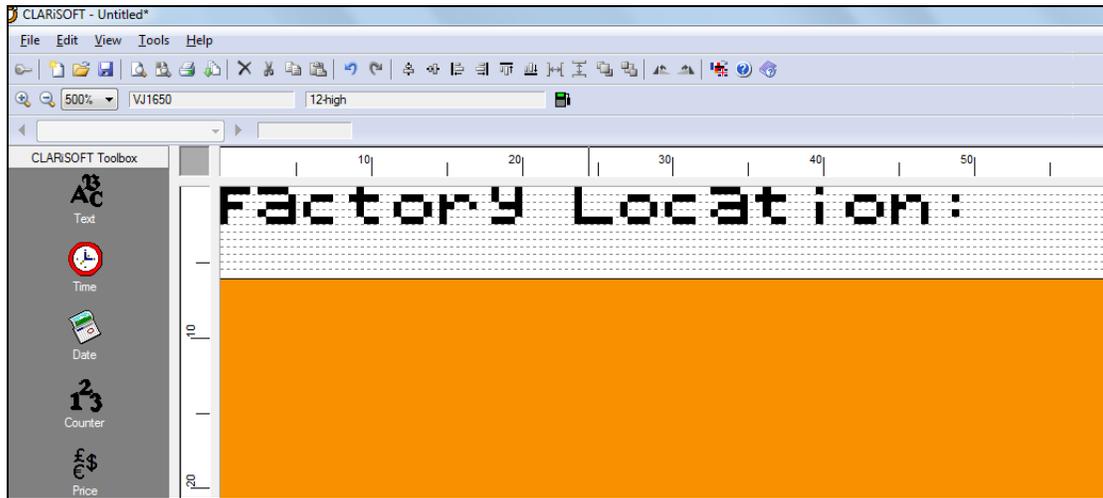


Figure 8-2: Text Field-Factory Location

- 8 Create another text field which will be modified to supply the operator with a list of factory locations such as 'London', 'Texas' and 'Tokyo'.

Click on the *Text* tool in the toolbox. The *Text Properties* dialog box appears.

- 9 Select *User List* from the *Type* drop down list. Leave the other parameters as shown in Figure 8-3.

The screenshot shows the 'Text Properties' dialog box with the 'Text' tab selected. The 'Preview' area displays 'DefaultText' in a monospaced font. The 'Type' dropdown is set to 'User List', and the 'Maximum Number of Characters' is set to 11. The 'Default Text' field contains 'DefaultText'. The 'Justification' is set to 'Left'. The 'User Entered Data' section has 'Characters Allowed' set to 'Any Characters'. The 'Prompt Value' section has 'Default Value' selected. The 'Database' section has 'Data Source' set to 'Table Containing Index Fields'. The 'Checksum Calculation' section has 'NONE' selected. The 'OK', 'Cancel', and 'Apply' buttons are at the bottom.

Section	Parameter	Value
Preview	Text	DefaultText
Type	Type	User List
Maximum Number of Characters	Maximum Number of Characters	11
Fixed Length	Fixed Length	<input type="checkbox"/>
Default Text	Default Text	DefaultText
Justification	Justification	Left
Pad Character	Pad Character	<input type="checkbox"/>
User Entered Data	Characters Allowed	Any Characters
Prompt Value	Prompt Value	Default Value
Prompt at Coder	Prompt at Coder	<input checked="" type="checkbox"/>
Database	Data Source	Table Containing Index Fields
Checksum Calculation	Checksum Calculation	NONE

Figure 8-3: Text Properties-User List

- Click on the *List* button. The *User List* dialog box appears.

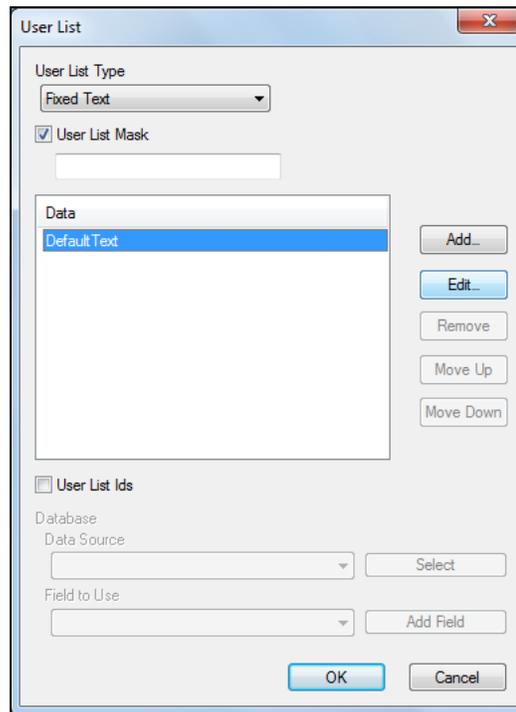


Figure 8-4: User List

- Use this dialog box to enter the items for the pick list. Select *Default Text* in the list box under *Data* and click *Edit*.
- The *Enter User List Text* dialog box appears. Enter the text 'London' and click *OK*.

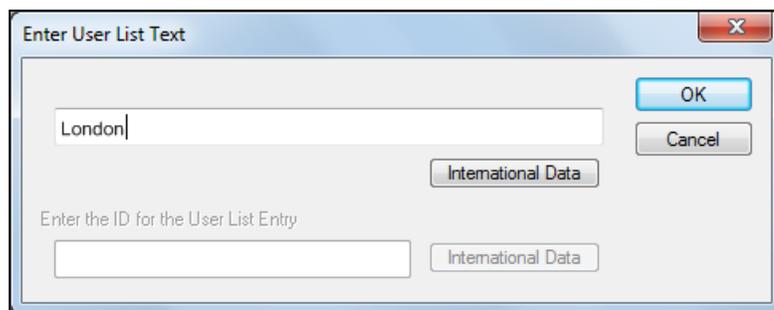


Figure 8-5: User List Text- London

- 13 The *User List* dialog box displays the first location in the list.

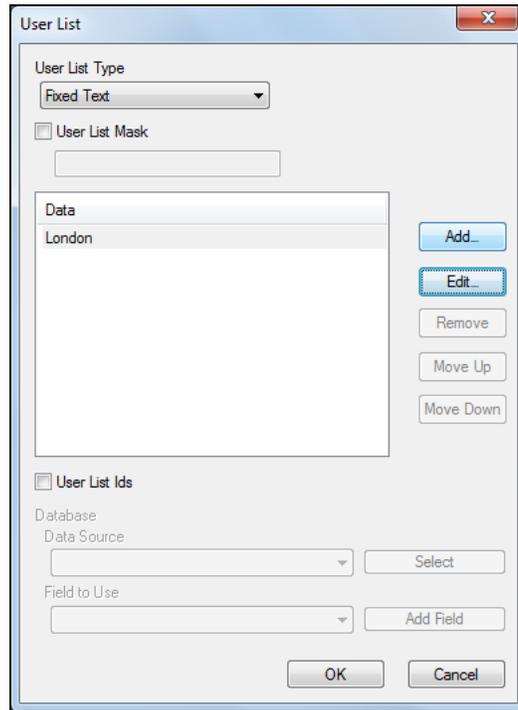


Figure 8-6: *User List*

- 14 Click the *Add* button. The *Enter User List Text* dialog box appears. Enter the text 'Texas' and click *OK*.
- 15 The *User List* dialog box displays the second location in the list.
- 16 Click on *Add* button and enter 'Tokyo' in the *Enter User List Text* dialog box and click *OK*.

17 The *User List* dialog box has now all three locations. Click *OK*.

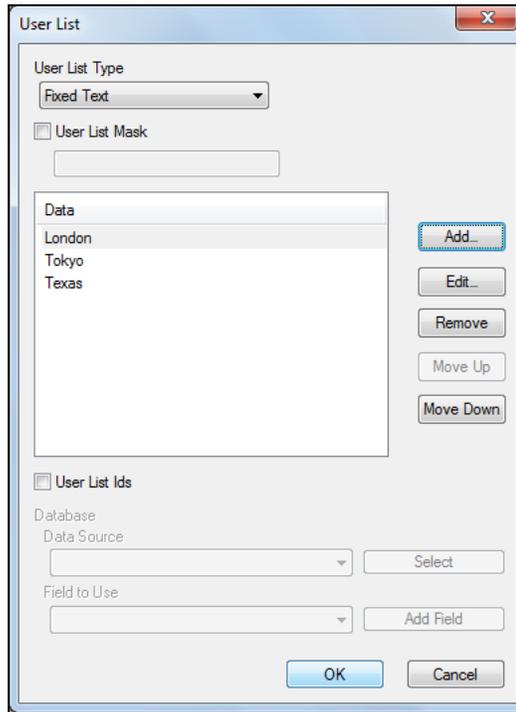


Figure 8-7: Complete User List

- 18 In the *Text Properties* dialog box, the default text is changed to 'London'; the first entry in the list. The text appears in the Print Preview also.

In the *Prompt Message* box, enter the text 'Select the Factory'. This message will be displayed during job selection.

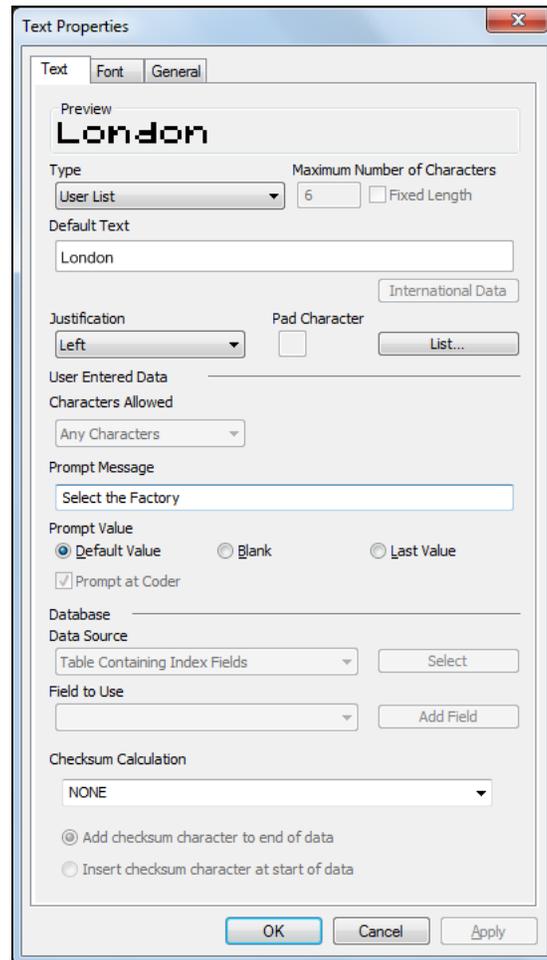


Figure 8-8: *Text Properties - Updated*

- 19 In the *General* tab, name this field as 'FacLoc'.

20 Click *OK*. The image design area will appear as shown in Figure 8-9.

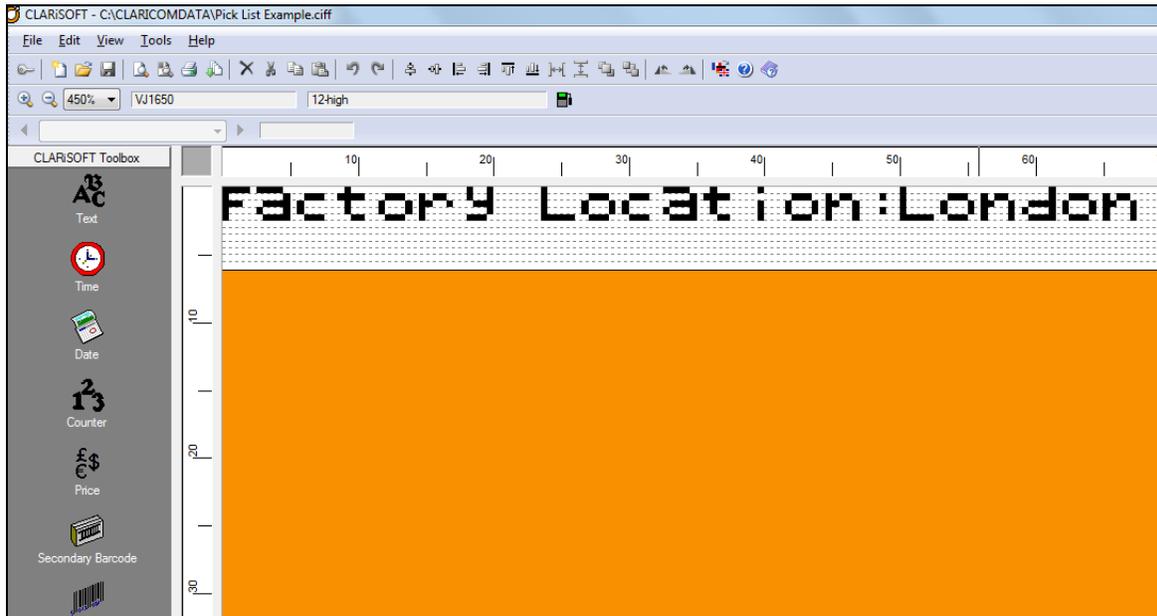


Figure 8-9: Image Design Area-Updated

- 21 Save the file as 'Pick List Example.ciff'.
- 22 Click *File > Print*.
- 23 Select *Download* under *Image Options*.
- 24 Select *Current Image* under *Print What*.
- 25 The *Job Selection Confirmation* dialog box appears. Verify that the preview is correct and click *OK*.



Figure 8-10: Job Selection Confirmation

- 26 The job download starts. CLARiSOFT displays the progress. Click *Close* when the download is complete.

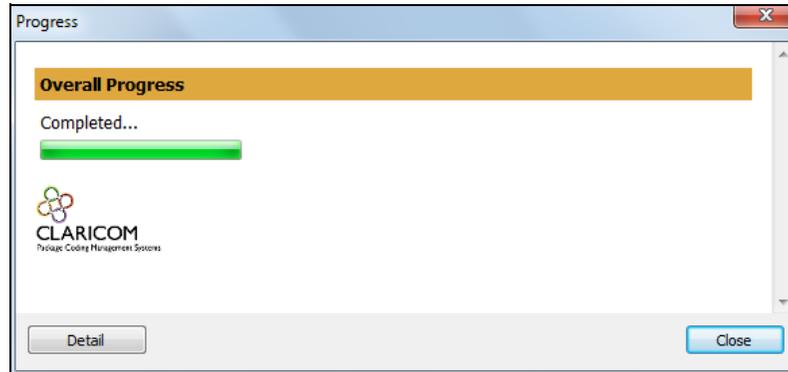


Figure 8-11: Progress

- 27 At the coder's user interface, touch the *Job* button. Select the job *Pick List Example* and touch *OK*.



Figure 8-12: Job Select

- 28 The prompt message created in CLARiSOFT appears. Touch *Edit* to select the factory from the pick list.



Figure 8-13: Prompt Message during Job Selection

- 29 The list of factories created in CLARiSOFT appears. Select *Tokyo* from the list and touch *OK*.



Figure 8-14: Select the Factory

- 30 A tick mark appears showing that this user entered field has been completed. The factory location is changed to 'Tokyo' in the preview.



Figure 8-15: Job Select

- 31 Touch OK. The print preview is displayed.



Figure 8-16: Job Preview

- 32 Touch OK. The job is ready for printing.

Advanced Merge Fields

In this example, we will create a merge field by concatenating two complete fields and a part of a third field. Refer to “Create a Merge Field” on page 4-21 for basic information on creating merge fields.

- 1 Open the file ‘Pick List Example.ciff’ created in section “User Entered Field-Pick List” on page 8-1.
- 2 In this example we will add a batch code to this message which will be in the format

‘Batch Code : YYJulXX’ where ‘YY’ is the current year, ‘Jul’ is the Julian Date’ and ‘XX’ is the first two letters of the factory location.

We will create two new date fields ‘year’ and ‘julian date’ and concatenate them to the first two letters of the factory location.

- 3 Click on the *Date* tool in the toolbox. The *Date Properties* dialog box appears. Select the date format as ‘yy’.

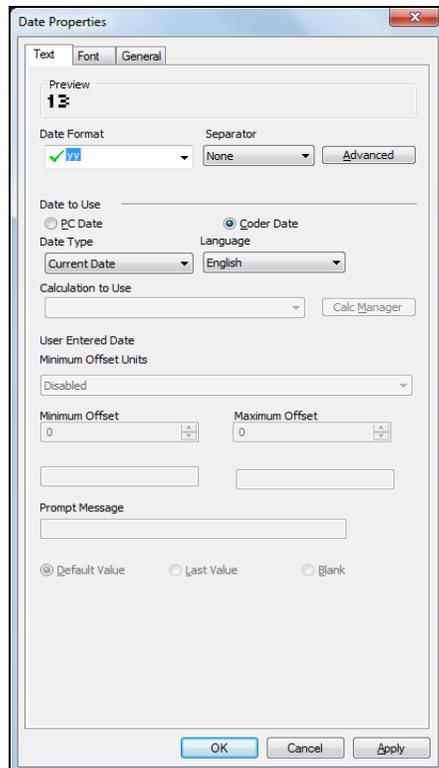


Figure 8-17: Text Properties

- 4 In the *General* tab, name this field as ‘Year’ and select *Non-Printed* under *Features*.

- 5 Click *OK*. Drag and place this field off the image area to the right, in the orange area (see Figure 8-19).
- 6 Click on the *Date* tool. The *Date Properties* dialog box appears. Select date format 'JulDayz(060)'.

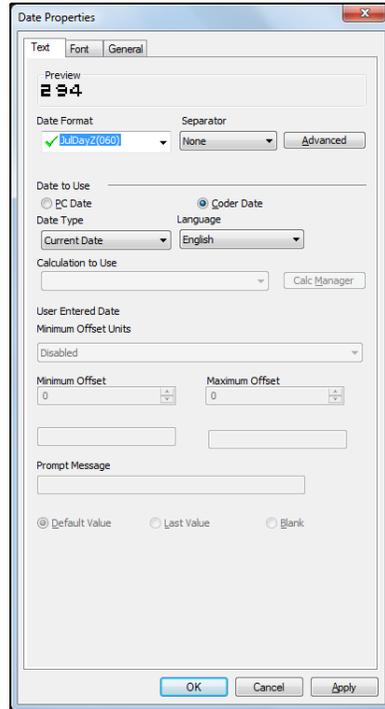


Figure 8-18: Text Properties

- 7 In the *General* tab, name this field as 'Julian' and select *Non-Printed* under *Features*.
- 8 Click *OK*. Drag and place this field off the image area to the right, in the orange area. The main screen should look like:



Figure 8-19: Image Design Area

- 9 Create a text field with fixed text 'Batch Code' and name it as 'txtBatchCode'. Place this field below the 'txtFacLoc' field.

- 10 Create the merge field as follows. Click on the *Text* tool in the toolbox and place the text on the image design area to the right of the 'txtBatchCode' field.
- 11 In the *Text Properties* dialog box, select *Merge Field* from the *Type* drop down list. Click on *Merge* button.
- 12 The *Field Merger* dialog box appears. Click on each of the 'Year', 'Julian' and 'Facloc' fields in turn and click *Add ->*. Arrange the fields in order as shown in Figure 8-20 using the *Move Up* and *Move Down* buttons.

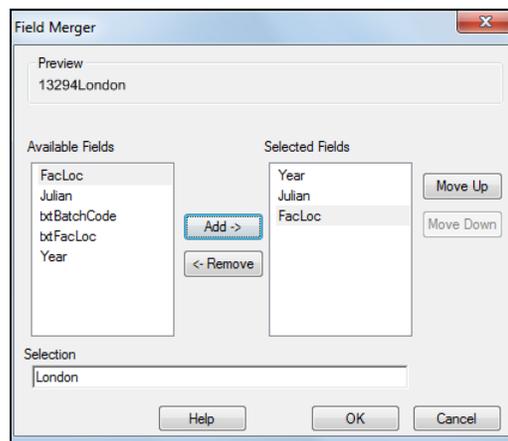


Figure 8-20: Field Merger

Concatenate the three fields together as follows. The text we want to print is 'YYJulXX'. The year and Julian Date fields are to be printed fully, but only the first two characters of the factory location field.

Select the field 'FacLoc' within *Selected Fields* list box. In the *Selection* box, select the first two letters of the factory location as shown below. A preview of the merged text appears in the *Field Merger* dialog box (see Figure 8-21).

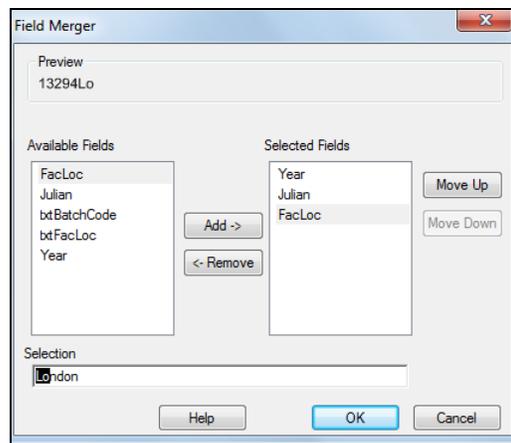


Figure 8-21: Field Merger Preview

- 13 Click *OK* to close *Field Merger* dialog box. Click *OK* to close the *Text Properties* dialog box.
- 14 The merged field appears in the image design area.

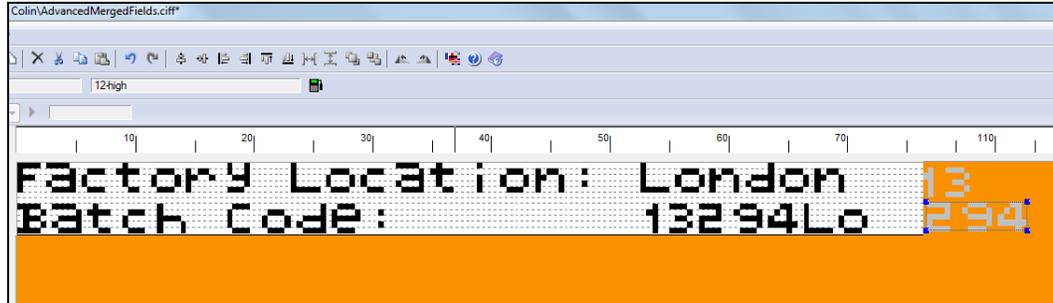


Figure 8-22: Merged Field using a part of text field

Advanced Date Fields

Date Offsets using Calculation Manager

The following example shows how to setup date offsets using CLARiSOFT calculation manager.

- 1 Open CLARiSOFT.
- 2 Click *File > New*. Select the *Coder* as Videojet 1650 and set the *Select Format* as 12-high.
- 3 Click on the *Text* tool in the toolbox to create a text label 'Use By'. Call the field 'txtUseBy'.
- 4 Click *OK* to close the *Text Properties* dialog box. The image design area displays the text.

- 5 Click on the *Date* tool in the toolbox. The *Date Properties* dialog box appears. Note that the current date appears, for the example it is 21/10/2013.

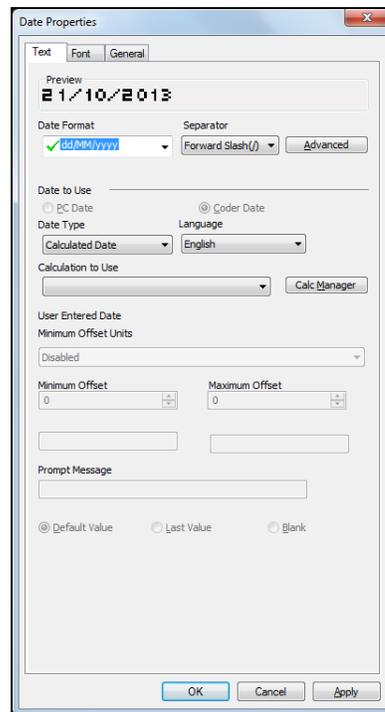


Figure 8-23: *Date Properties*

- 6 Select *Calculated Date* from the *Date Type* drop down list and click *Calc Manager*. Click *New* in the *Date Calculation Manager* dialog box.
- 7 Set an offset of 60 days from the current date. Enter the calculation name 'calcP+60' under *Calculation Name*. Select *Current Date* from the *Reference Date* drop down list and *Within Image* from the *Source* drop down list. This means the date calculation will be based on the current date.

- 8 Enter the *Default Offset* as '60' and *Units* as 'days'.

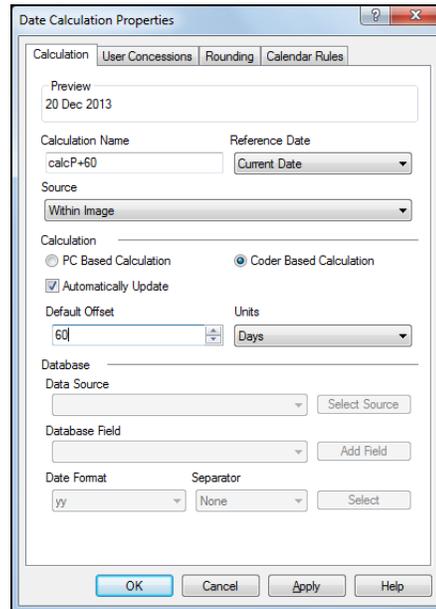


Figure 8-24: Date Calculation Properties

- 9 Click *OK* to exit the *Date Calculation Properties* dialog box. Click *OK* to exit the *Date Calculation Manager* dialog box and click *OK* to exit the *Date Properties* dialog box.
- 10 The offset date is displayed in the image design area. This date is 60 days after the current date (21/10/2013 in this example).

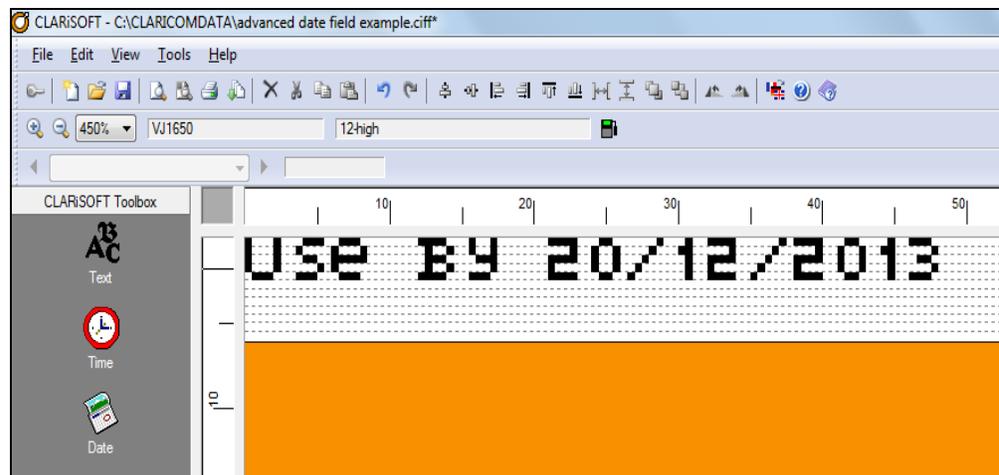


Figure 8-25: Updated Offset Date

- 11 Save this file as 'advanced date field example.ciff'.

User Concessions

User concession allows you to limit a range of dates that the operator can select from during job selection.

- 1 Open the file 'advanced date field example.ciff'.
- 2 Double click on the 'dtUseBy' field. The *Date Properties* dialog box appears.
- 3 Click *Calc Manager*. The *Date Calculation Manager* dialog box appears.
- 4 Select 'calcP+60' in the *Supported Date Calculations* box and click *Edit*. The *Date Calculation Properties* dialog box appears.
- 5 Click on the *User Concessions* tab. Click the check box *Allow User to change*.
- 6 Enter the *prompt message* 'Please Enter the Date'.
- 7 Set the *Minimum Offset Units* as *Days*. Set the *Minimum Offset* as -10 and *Maximum Offset* as 10.

By setting the minimum and maximum offsets, we allow the operator to only select a date in the range of 10 days before or after the calculated date.

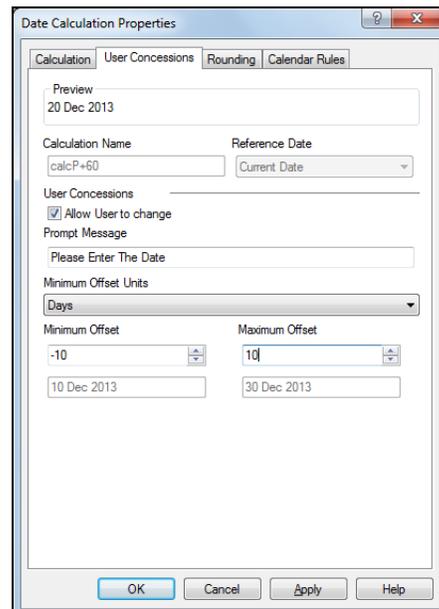


Figure 8-26: Date Calculation Properties

- 8 Click *OK*. Click *OK* to close the *Date Calculation Manager* dialog box and click *OK* to close the *Date Properties* dialog box.

9 The image design area appears as shown below.

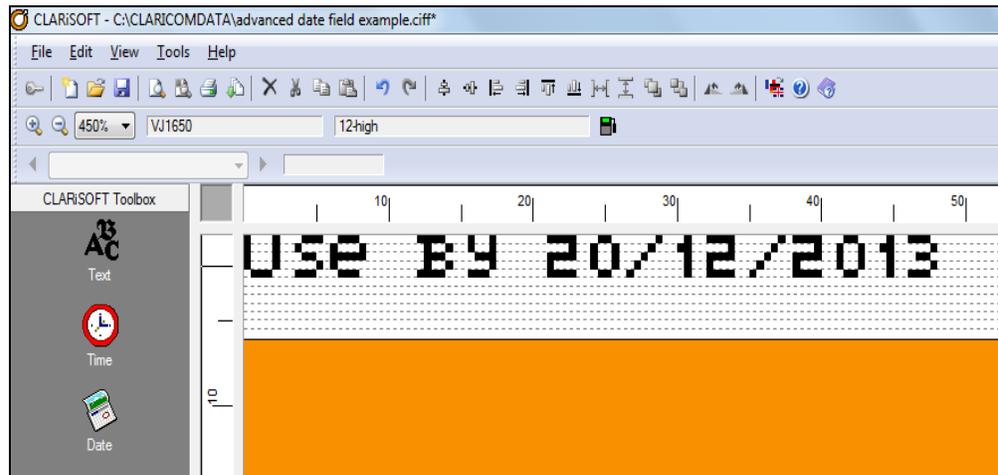


Figure 8-27: Updated Offset Date

- 10 Save the file.
- 11 Click *File > Print*.
- 12 Select *Download* under *Image Options*.
- 13 Select *Current Image* under *Print What*.
- 14 The *Job Selection Confirmation* dialog box appears. Verify that the preview is correct and click *OK*.
- 15 The job download starts. CLARiSOFT displays the progress. Click *Close* when the download is complete.

- 16 At the coder's user interface, touch the *Job* button. The updated job is shown in the job select list.



Figure 8-28: Job Select

- 17 Select the job and touch *OK*.
- 18 The prompt message created in CLARiSOFT appears.



Figure 8-29: Prompt Message

- 19 Select the prompt message and touch *Edit*. The calendar Page appears. The only dates selectable are those that will fall within the range of -10 to +10 days of the calculated offset date.



Figure 8-30: User Concession example of selectable dates

- 20 Select the required date.



Figure 8-31: Select the Required Date

- 21 Touch *OK*.

- 22 A tick mark appears with the prompt message. The preview is updated to reflect the selected date. Touch *OK*.



Figure 8-32: Updated Date Field

- 23 The print preview is displayed. Touch *OK*.



Figure 8-33: User Concession Example Preview

- 24 The 'use by date' is updated and the job is ready for printing.

Date Avoidance

Date Avoidance blocks specific dates from being selected or calculated.

The following example explains how to set up 'Avoidance Dates' using CLARiSOFT and how the 'Avoidance Dates' are managed during job selection. We will use the CIFF file from the previous example.

Note: The file 'advance date field example.ciff' now has the date field set to a calculated offset of '60' days, but the operator can select a date from ± 10 days from the calculated date. In this example, we will block 25th December from being selected.

- 1 Open the file 'advanced date field example.ciff'.
- 2 Double click on the 'dtUseBy' field. The *Date Properties* dialog box appears.
- 3 The calculation name 'calcP+60' is present under *Calculation to Use*. Click *Calc Manager*. The *Date Calculation Manager* dialog box appears.
- 4 Select 'calcP+60' under *Supported Date Calculations* box and click *Edit*. The *Date Calculation Properties* dialog box appears.
- 5 Click the *Calendar Rules* tab.

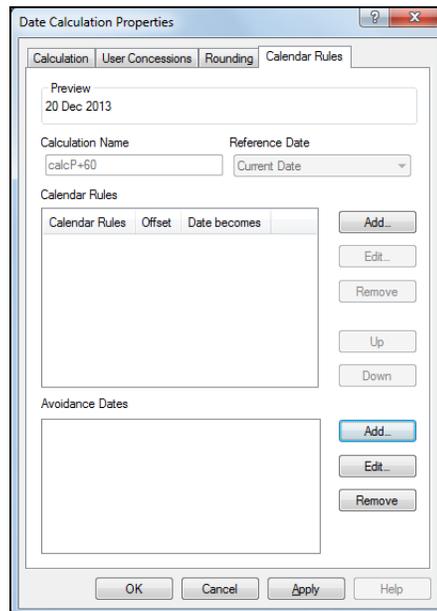


Figure 8-34: Calendar Rules-Avoidance

- 6 Click the *Add* button to the right of *Avoidance Dates*.

- 7 Set the *Date to avoid* to '25' and 'December'.

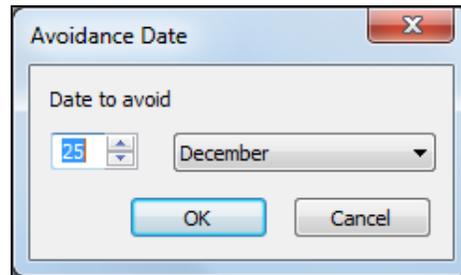


Figure 8-35: Calendar Rules-Avoidance Date

- 8 Click *OK*. Confirm the date set appears in the *Avoidance Date* data of the *Date Calculation Properties* dialog box.
- 9 Click *OK* to close the *Date Calculation Properties* dialog box and click *OK* to close *Date Calculation Manager* dialog box. Click *OK* to close the *Date Properties* dialog box.
- 10 Save the file.
- 11 Click *File > Print*.
- 12 Select *Download* under *Image Options*.
- 13 Select *Current Image* under *Print What*.
- 14 The *Job Selection Confirmation* dialog box appears. Verify that the preview is correct and click *OK*.
- 15 The job download starts. CLARiSOFT displays the progress. Click *Close* when the download is complete.
- 16 At the coder's user interface, touch the *Job* button. The updated job is shown in the job select list.



Figure 8-36: Job Select

- 17 Select the job and touch *OK*.

- 18 The prompt message created in CLARiSOFT appears.



Figure 8-37: Prompt Message

- 19 Touch *Edit*. The calendar page appears. Note that the date '25th December' is in grey and cannot be selected.



Figure 8-38: Avoidance Date

Date Rounding

Allows the date fields to be rounded in a message to a particular day of the week, or round to a particular day of the month. We will use the CIFF file from the previous example to demonstrate how to round a selected or calculated date up to the next Monday.

- 1 Open the file 'advanced date field example.ciff'.

- 2 Double click on the 'dtUseBy' field. The *Date Properties* dialog box appears.
- 3 The calculation name 'calcP+60' is present under *Calculation to Use*. Click *Calc Manager*. The *Date Calculation Manager* dialog box appears.
- 4 Select 'calcP+60' under *Supported Date Calculations* box and click *Edit*.The *Date Calculation Properties* dialog box appears.
- 5 Click on the *Rounding* tab.

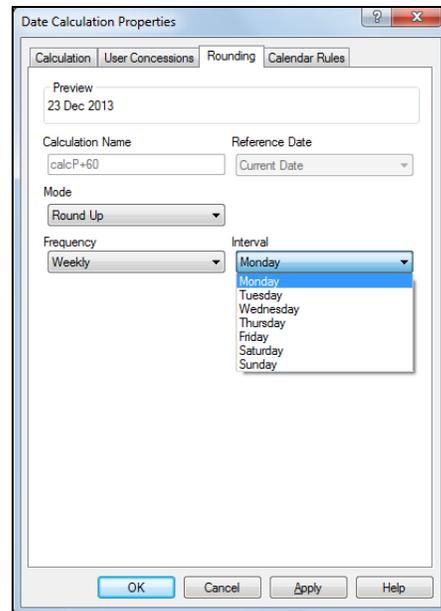


Figure 8-39: Rounding

- 6 Select *Round Up* from the *Mode* drop down list to round to the next Monday.
- 7 Select *Weekly* from the *Frequency* drop down list.
- 8 Select *Monday* from the *Interval* drop down list.
- 9 Click *OK* to close the window. Click *OK* to close the *Date Calculation Manager* dialog box and click *OK* to close the *Date Properties* dialog box.
- 10 Save the file.
- 11 Click *File > Print*.
- 12 Select *Download* under *Image Options*.
- 13 Select *Current Image* under *Print What*.
- 14 The *Job Selection Confirmation* dialog box appears. Verify that the preview is correct and click *OK*.
- 15 The job download starts. CLARiSOFT displays the progress. Click *Close* when the download is complete.

- 16 At the coder's user interface, touch the *Job* button. The updated job is shown in the job select list.



Figure 8-40: Job Select

- 17 Select the job and touch *OK*.
- 18 The prompt message created in CLARiSOFT appears.



Figure 8-41: Prompt Message

- 19 Touch *Edit*. The calendar page appears. Only Mondays are now available for selection.

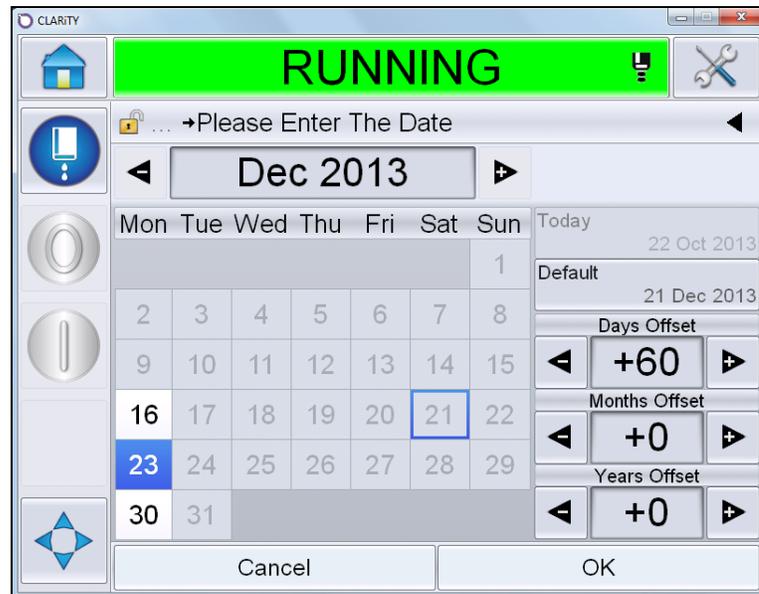


Figure 8-42: Selectable Dates from 'Date Rounding Example'

Calendar Rules

CLARiSOFT enables the user to define the rules to control dates that are calculated, selected and used.

The following example explains how to set up Calendar Rules in CLARiSOFT. We will use a date field linked to the database in a sample file, and then apply calendar rules to the date field to avoid any particular dates.

- 1 Open CLARiSOFT.
- 2 Click *Tools > Options*.
- 3 In the *Database Setup* tab, under *Where is my Database?* select *CLARiSOFT database*.
- 4 Click *Browse* and select 'CLARiSOFT-Sample.mdb' from the default directory. Click *OK*.
- 5 Open the file 'inner primary example1.ciff' from the default directory.
- 6 Save this file in another location (*File > Save As...*) without changing the name of the file. If the file name is changed, the database will no longer link to the CIFF file.

- 7 From the *Database Viewer*, select the job 'D004IRL'. The image design area is shown in Figure 8-43. The offset date calculated from the database is 16th November. We will create a calendar rule to automatically re-calculate the date to be one day before the original date.

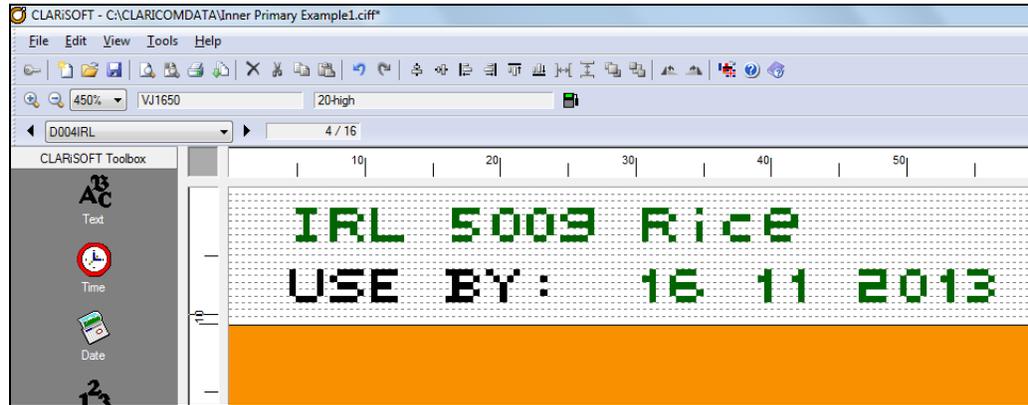


Figure 8-43: Job Code D004IRL

- 8 Double click on the *date field* in the image design area. The *Date Properties* dialog box appears.
- 9 The calculation name 'USEBY' is present under *Calculation to Use*. Click *Calc Manager*. The *Date Calculation Manager* dialog box appears
- 10 Select 'USEBY' under *Supported Date Calculations* box and click *Edit*. The *Date Calculation Properties* dialog box appears.

- 11 Click on the *Calendar Rules* tab.

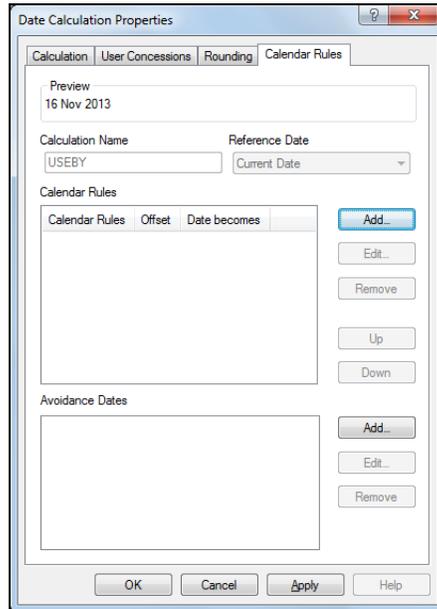


Figure 8-44: Date Calculation Properties: Calendar Rules

- 12 Click the *Add* button to the right of *Calendar Rules*.
- 13 Select the *Date to Change* to '16' and 'November'.

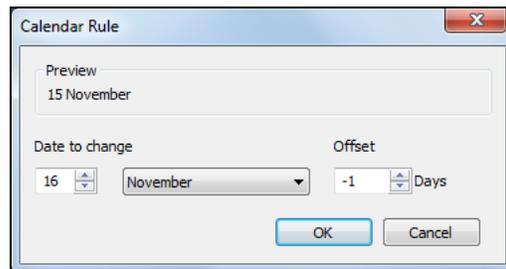


Figure 8-45: Set Calendar Rule

- 14 Set the *Offset* to -1 days. Note that the *Preview* displays the date '15 November'.
- 15 Click *OK*. The calendar rule is added in the box.

If necessary, multiple rules can be added following similar steps.

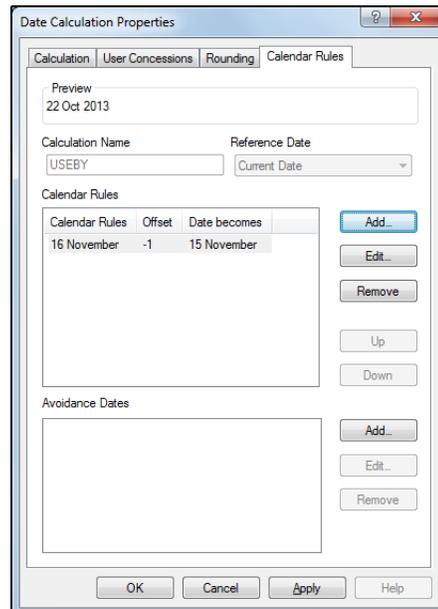


Figure 8-46: Calendar Rule Added

- 16 We will now allow the user to change the dates using *User Concessions*. Click on the *User Concessions* tab.
- 17 Click the check box *Allow User to Change*. Insert the text 'Enter the Date' in the *Prompt Message* text box.

- 18 Select *Days* from the *Minimum Offset Units* drop down list and set the *Minimum Offset* as -3 and *Maximum offset* as +3.

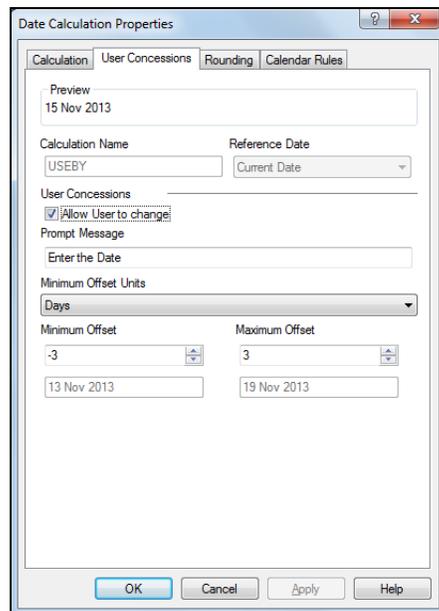


Figure 8-47: Set User Concession

- 19 Click *OK* to close the dialog box. Click *OK* to close the *Date Calculation Manager* dialog box and click *OK* to close the *Date Properties* dialog box.
- 20 The Image Design Area is updated to reflect the calendar rules applied.

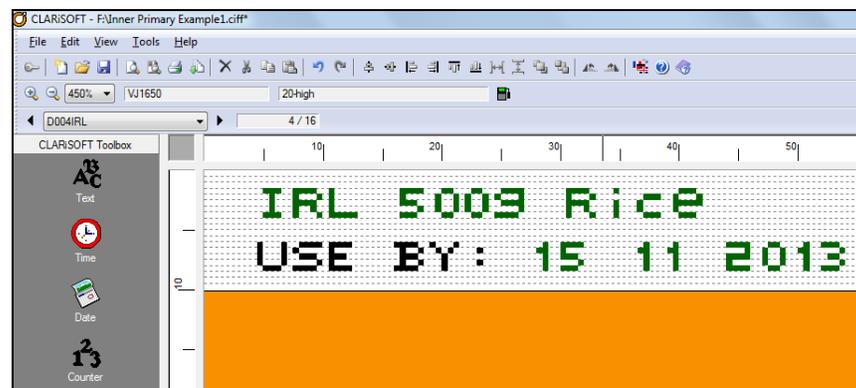


Figure 8-48: Image Design Area

- 21 Save the file.

- 22 Click *File > Print*.
- 23 Select *Download and Select* under *Image Options*. This will prompt for the variable information required by the job AT THE PC, and then download it to the coder as fixed text. If the job is subsequently selected at the coder, the variable information will not be prompted.
- 24 Click *Database Record* under *Print What* to tell CLARiSOFT to print a job from the CLARiSOFT database.

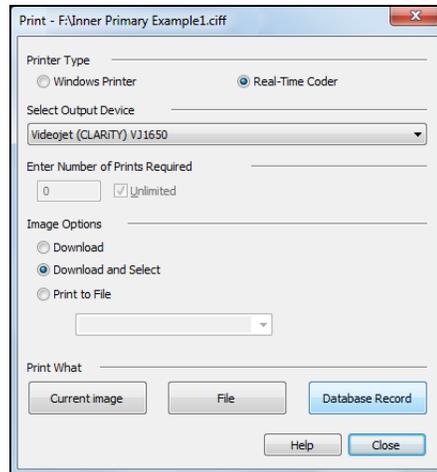


Figure 8-49: Print

- 25 The *Select Job Code* dialog box appears.

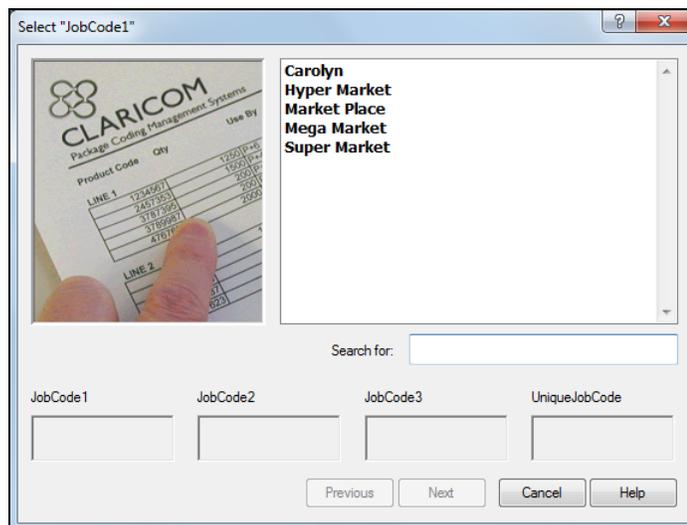


Figure 8-50: Select Job Code

- 26 In the following example we will print job D004IRL from the database. View the associated record in *CLARiSOFT database manager* (see Figure 8-51).

UniqueJobCode	JobCode1	JobCode2	JobCode3	Packed In	Description	SellByOffset	UseByOffset	CliffReference	PrimaryPackCode	Price
D001UK	Mega Market	Rice	250g		UK 250g Rice	020/00/00	025/00/00	longtext.cliff	0501234678909	£0.99
D002UK	Mega Market	Rice	500g		UK 500g Rice	020/00/00	025/00/00	Inner Primary E...	0504561237894	£1.80
D003IRL	Mega Market	Rice	250g		IRL 250g Rice	020/00/00	025/00/00	Inner Primary E...	0501234678909	
D003UK	Super Market	Salmon Fillets	500g	UK	UK 500g Salmo...	005/00/00	010/00/00	Inner Primary E...		£5.10
D004IRL	Mega Market	Rice	500g		IRL 500g Rice	020/00/00	025/00/00	Inner Primary E...	0504561237894	0
FP0001	Carolyn	Flapjack	100g		Carolyn's Flapja...	000/00/00	012/00/00	Flapjack-Primary...		0
M001UK	Market Place	Chicken Tikka	500g		UK 500g Chick...	009/00/00	010/00/00	Inner Primary E...	0509876543210	£1.80
M002UK	Market Place	Chicken Tikka	750g		UK 750g Chick...	010/00/00	011/00/00	Inner Primary E...	0501236547890	£2.70
M003IRL	Market Place	Chicken Tikka	500g		IRL 500g Chick...	010/00/00	011/00/00	Inner Primary E...	0509876543210	
M004IRL	Market Place	Chicken Tikka	750g		IRL 750g Chick...	010/00/00	011/00/00	Inner Primary E...	0501236547890	

Figure 8-51: Sample Database- Job Code D004IRL

- 27 Following the database record, double click on *Mega Market* to select *Job Code 1*.

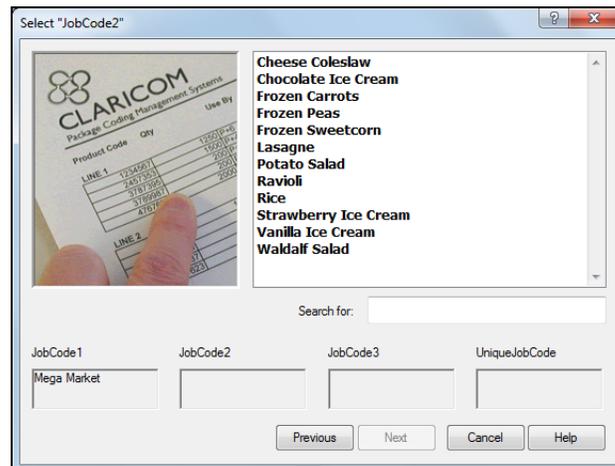


Figure 8-52: Select Job Code '2'

- 28 From the *Job Code 2* list, select *Rice*.
- 29 From the *Job Code 3* list, select *500g*.

- 30 From the *UniqueJobCode* list, select *D004IRL*.

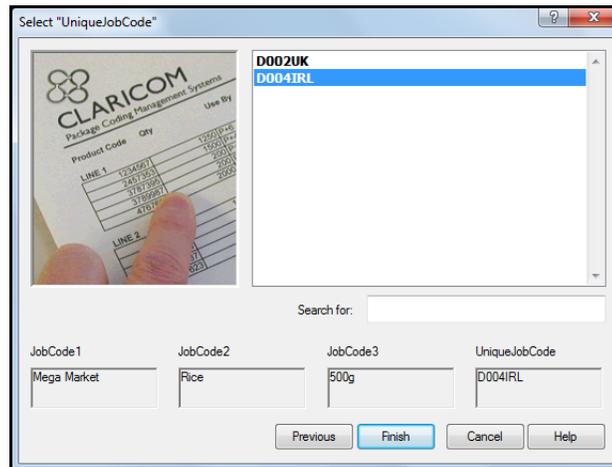


Figure 8-53: Select 'UniqueJobCode'

- 31 Click *Finish*. The *Variable Data Entry* dialog box appears.

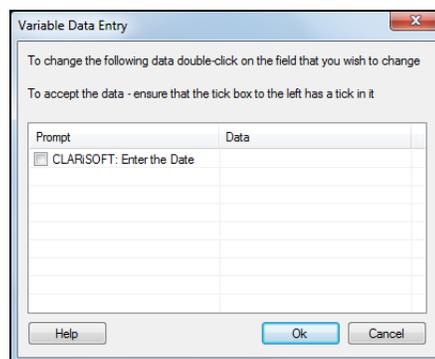


Figure 8-54: Variable Data Entry

- 32 Double click on the prompt message. The calendar page is displayed.

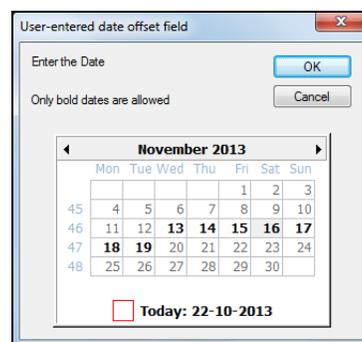


Figure 8-55: User-entered Date Offset Field- Calendar

- 33 Select the date '16 November'. Click *OK*. The following message is displayed.

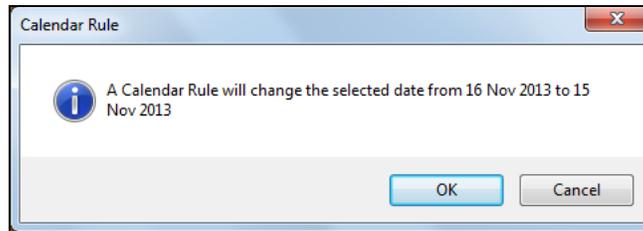


Figure 8-56: Calendar Rule Warning

- 34 Click *OK*. The *Job Selection Confirmation* dialog box appears. The date in the preview is changed to 15 November based on the calendar rule set.

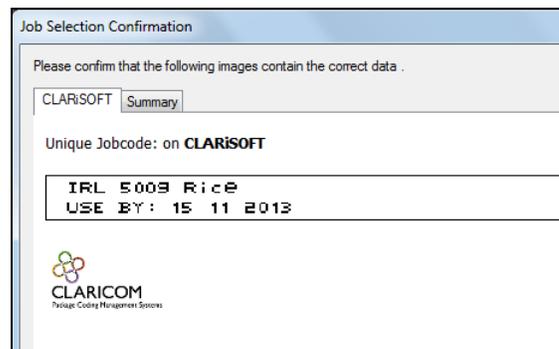


Figure 8-57: Job Selection Confirmation

- 35 Click *OK* to close the preview.
- 36 The job download starts. CLARiSOFT displays the progress. Click *Close* when the download is complete.

37 The selected job appears in the home page of the coder's user interface.

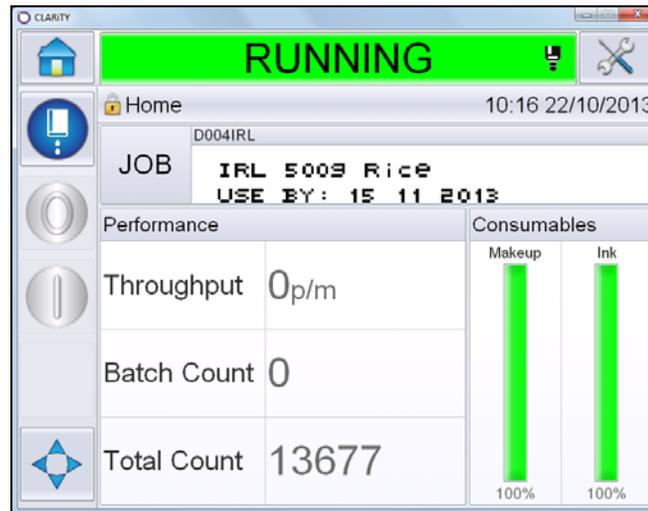


Figure 8-58: Home Page

Automated Management of Avoidance Dates

CLARiSOFT and the coder manage both the avoidance date and calendar rules when a date is selected automatically.

38 This is an example of the image design area within CLARiSOFT when an automatically generated date does not conform to the calendar rules. The invalid field changes to red. Place the cursor over the date field and the cause of the error is shown.

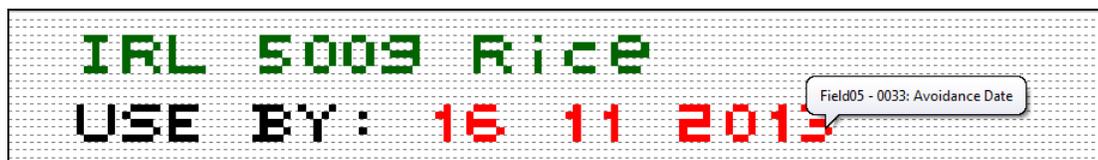


Figure 8-59: Avoidance Date in Image Design Area

- 39 If the warning is ignored and the job is downloaded to the coder, the job preview screen will display no date.

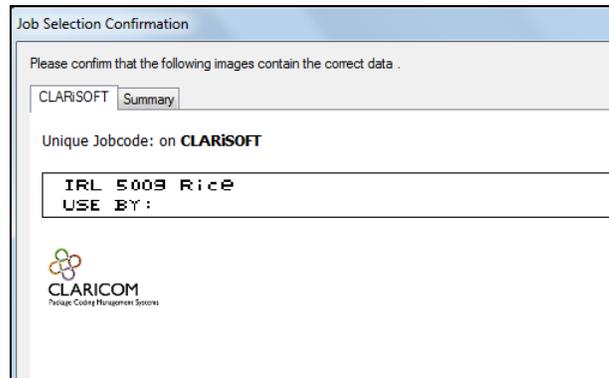


Figure 8-60: Job Selection Confirmation

- 40 If the job is downloaded to the coder, the user interface displays the fault message *FAULT (E1243) Invalid Job File - Avoidance Date*.

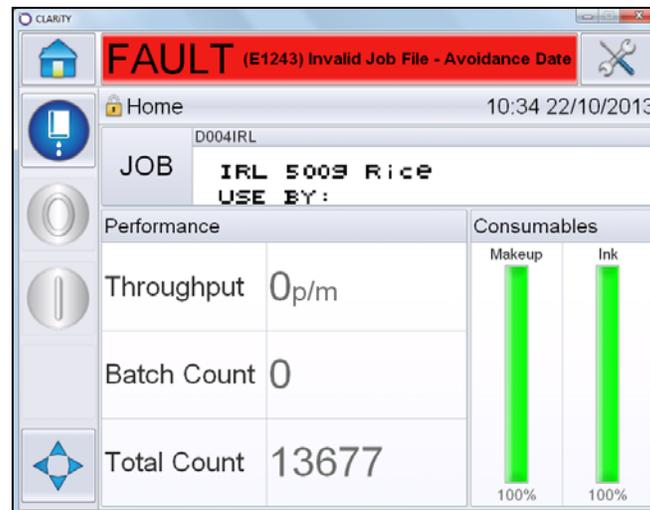


Figure 8-61: Fault Display

- 41 Touch on the fault display in the status bar. Touch the '>' button to the right of the fault details.



Figure 8-62: Fault List

- 42 A description of the fault is displayed.

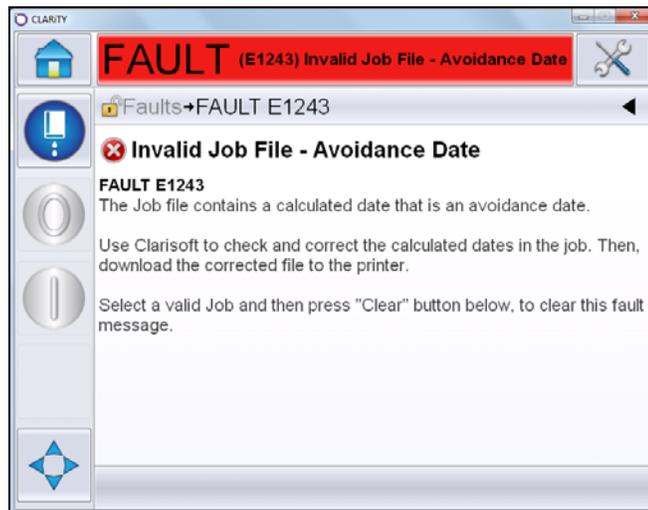


Figure 8-63: Fault Description

- 43 Follow the instructions given in the description to clear the fault. Open CLARiSOFT and make the required changes to the message to avoid the 'avoidance date'.

Arabic Dates

The following example shows the procedure to create and select dates in the user interface language and print it in Arabic characters.

- 1 Open CLARiSOFT.
- 2 Select the *Coder* as Videojet 1650 and *Select Format* as '12-high'.
- 3 Click on the *Text* tool in the toolbox. The *Text Properties* dialog box appears.
- 4 Select *Fixed Text* from the *Type* drop down list and enter the text 'Use By' in the default text box.
- 5 In the *Font* tab, select the font as *12-high international*.
- 6 In the *General* tab, name this field as 'txtUseBy' and click *OK*.
- 7 Click on the *Date* tool in the toolbox. The *Date Properties* dialog box appears.
- 8 Select *User Entered Date* from the *Date Type* drop down list.
- 9 Set the *Minimum Offset* as 'zero' days and *Maximum Offset* as '3' days.
- 10 Enter the *Prompt Message* as 'Select the Date'.

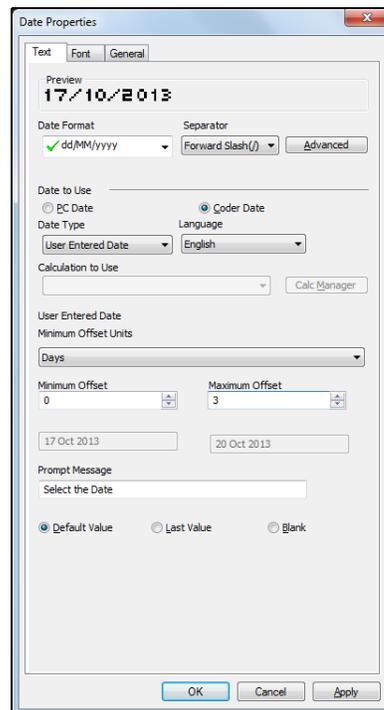


Figure 8-64: Date Properties

- 11 In the *Font* tab, select the font as *12-high international*.
- 12 In the *General* tab, name this field as 'dtUseBy'.

- 13 Click *OK*. The image design area appears as follows.

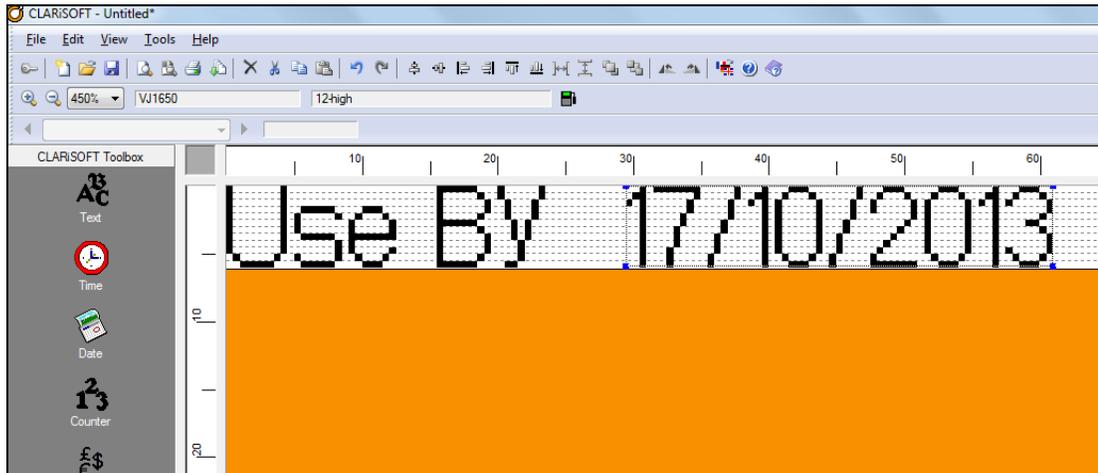


Figure 8-65: Image Design Area

- 14 To change the date so that it appears in Arabic, double click on the *date field* and click on the *General* tab on the *Date Properties* dialog box.
- 15 From the drop down list under *Encrypted Field*, select *CLARiTY.Encryption.Arabic*.

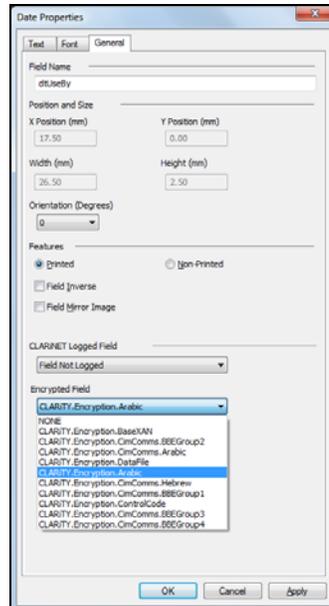


Figure 8-66: Encryption

- 16 Click on the *Text* tab and select the correct regional language from the *Language* drop down list. (*Arabic - Egypt* is selected for the example).

17 Click *OK*. The image design area displays the date field in Arabic.

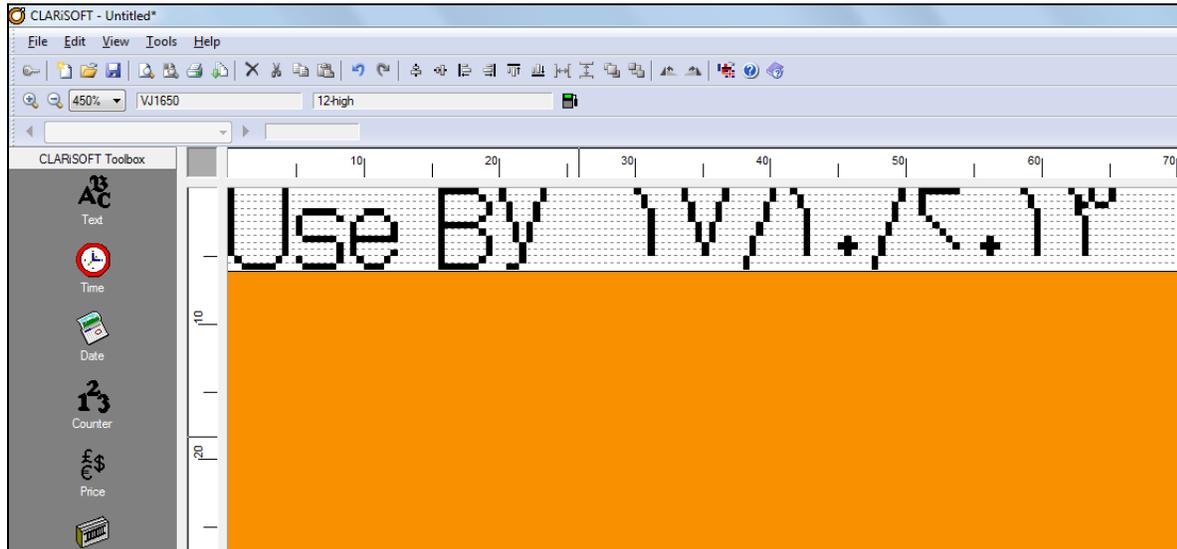


Figure 8-67: Encryption

- 18 Save the file as 'arabic example.ciff'.
- 19 Click *File > Print*.
- 20 Select *Download* under *Image Options*.
- 21 Select *Current Image* under *Print What*.
- 22 The *Job Selection Confirmation* dialog box appears. Verify that the preview is correct and click *OK*.
- 23 The job download starts. CLARiSOFT displays the progress. Click *Close* when the download is complete.

- 24 At the coder's user interface, touch the *Job* button. Select the job 'arabic example' and touch *OK*.



Figure 8-68: Job Select

- 25 The prompt message created in CLARiSOFT appears. Touch *Edit*.



Figure 8-69: Prompt Message

- 26 The calendar in the standard Gregorian format appears. Select the required date (19 in this example) and touch *OK*.



Figure 8-70: Select the Date

- 27 A tick mark appears with the prompt message. The preview is updated to reflect the selected date. Touch *OK*.
- 28 The print preview is displayed with the selected date in Arabic. Touch *OK*.



Figure 8-71: Job Preview

- 29 The job is ready to be printed with Arabic dates.

Transmitted Fields

Transmitted fields are unique string commands that are transmitted to the RS232 serial port of the coder where available.

The data can be transmitted in two different modes which is setup in CLARiTY Configuration Manager for the coder:

- Each Print (data will be sent to RS232 serial port each time the job is printed).
- Every Job select (data will be sent to RS232 serial port each time the job is selected).

The data can then be used as required. For example, the job weight can be sent to a checkweigher to validate that the weight printed on the product is correct or to a validation scanner to confirm that the barcode printed matches the input data.

The following example creates a transmitted field for a Microscan Validation Scanner.

Note: Only one transmitted field is allowed per job.

- 1 Open CLARiSOFT.
- 2 Click *File > New* to create a new image. Select the coder as VJ2360 and the image width as '350 mm'.
- 3 Save this file as 'Secondary Example2.ciff' in another location to avoid overwriting the existing sample CIFF file. Do not change the name, as this CIFF File is referenced in the database.
- 4 The first field in the transmitted field represents the 'Scanner Control Header' that tells the specific microscan validation scanner to prepare to receive barcode data to store and read for that message. Click on the *Text* tool in the toolbox and click on the image design area. The *Text Properties* dialog box appears.
- 5 In the *Default Text* box, enter the header syntax '<K231,1,'.
- 6 Set the *font size* to '25' in *Font* tab.
- 7 In the *General* tab, name this field as 'Header'. Select *Non-Printed* under *Features*. Click *OK*.

- 8 Click *OK*. Move the text field off the image design area as shown below.

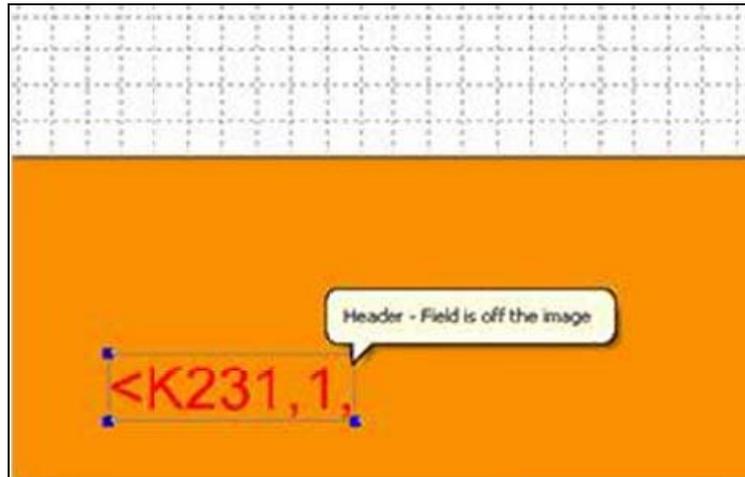


Figure 8-72: Header Field

- 9 The second field will represent the control trailer that the scanner understands as the end of the serial string command. Create another *Text Field* having default text '>' and font size 25. Name this field 'Trailer' and set the feature as *Non-Printed* in the *General* tab. Click *OK*.
- 10 Move this field off the image as shown below.

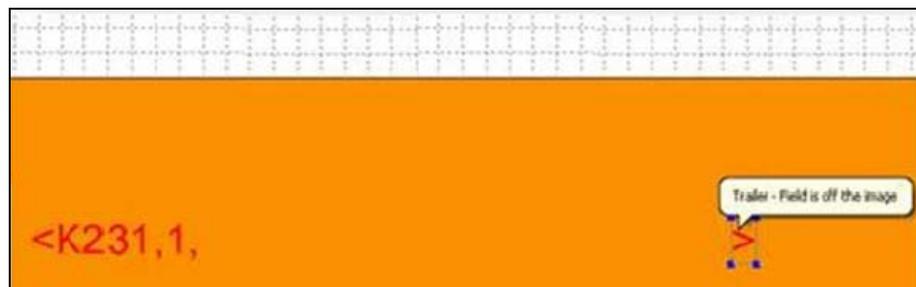


Figure 8-73: Trailer Field

- 11 The third field represents the data that the barcode will contain. It will also form the part of the serial string command between the header and trailer that tells the scanner the data that the barcode should contain for the duration of the printed job.
- 12 Create another *Text Field* by selecting *CLARiSOFT Database* from the *Text Type* drop down list. Select *Secondary Case Code* from the *Field to Use* drop down list. This field in the database contains the numbers for shipping container code for the secondary job.
- 13 Name this field 'Data' in the *General* tab and select *Non-Printed* under *Features*. Click *OK*.

- 14 Move the field off the image design area as shown below.

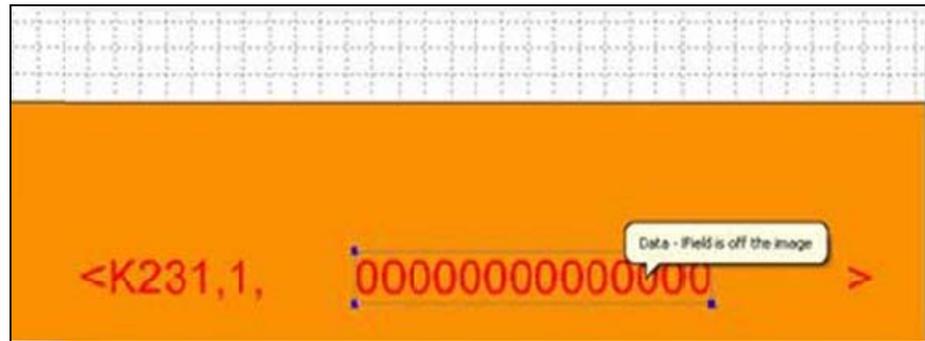


Figure 8-74: Data Field

- 15 Now we will merge the three fields we created to form the complete serial string command. This will be the 'Transmitted Field' that is sent to the scanner.
- 16 Create a *Text Field* and select *Merged Field* from the *Type* drop down list in the *Text Properties* dialog box.
- 17 Click *Merge*. In the *Field Merger* dialog box, select all the three fields we created and click *OK*.

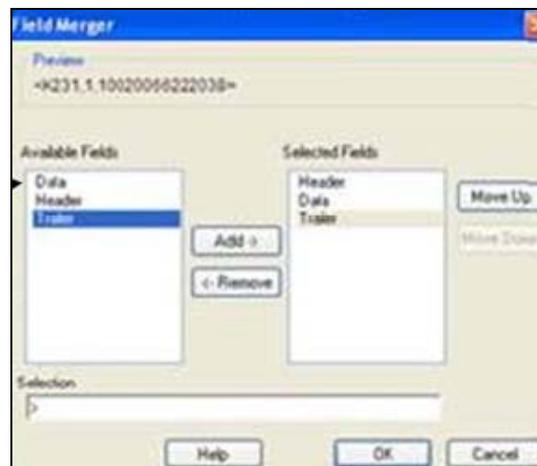


Figure 8-75: Merged Field

- 18 In the *General* tab, under *Features*, click *Transmitted Field*. This will activate this field and its contents as the output from the printer through its serial port to the scanner once this message is loaded in the printer.

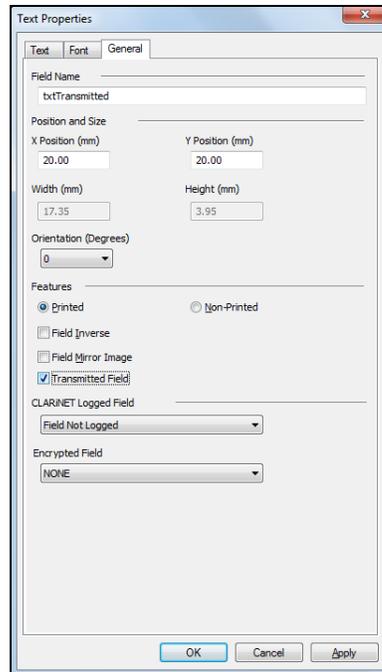


Figure 8-76: Transmitted Field Setting

- 19 Click *OK*. Move this field off the image design area as shown below.

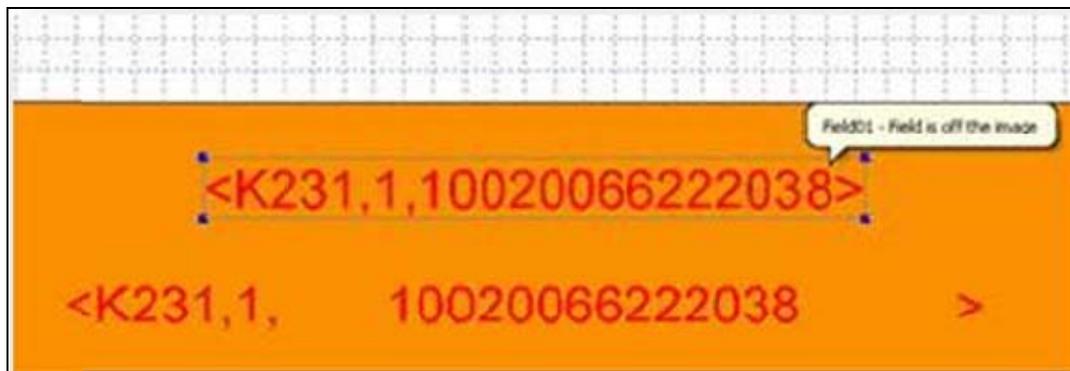


Figure 8-77: Transmitted Field

- 20 The next field is the actual barcode that the printer will print. Click on the *Secondary Barcode* tool in the toolbox and click on the image design area.
- 21 Select *ITF* from the list of *Secondary Barcodes*. Click *OK*.
- 22 In the *ITF Properties* dialog box, select *Merge Field* from the *Type* drop down list.

- 23 Click *Merge*.
- 24 Select the field *Data* from the available fields and click *Add*.
- 25 Click *OK*.
- 26 Choose the *Magnification*, *Human Readable Style* and *Barcode Features* that match the standard symbology. Uncheck the *Automatically Calculate Check Digit* box.
- 27 Click *OK*.
- 28 Position the bar code in the image design area.



Figure 8-78: Barcode Data

- 29 Save the file as 'Transmitted Field example.ciff'.

The printer will send the transmitted field to the scanner when the job is loaded. The scanner then matches the code that is printed with the transmitted field and ensures code matching.

Note that the coder will need to be correctly configured to send the transmitted field on the correct serial port number and required serial port parameters. Refer to the coder manual for details.

CLARiSOFT Print Manager

9

CLARiSOFT Print Manager is a standalone application that enables an operator to select an existing image file and download it to a coder without the ability to change the message structure / content. This avoids the risk of accidental changes to the images or templates in CLARiSOFT.

The CLARiSOFT Print Manager supports user-entered data and database fields if the job includes them.

Starting CLARiSOFT Print Manager

Note: CLARiSOFT Print Manager and CLARiSOFT cannot run in parallel on the same PC. Close CLARiSOFT before opening CLARiSOFT Print Manager.

Open 'CLARiSOFT Print Manager'. The following screen is displayed.

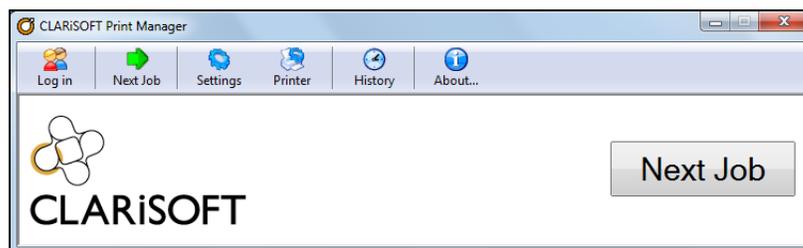


Figure 9-1: CLARiSOFT Print Manager

CLARiSOFT Print Manager Tool Bar

Tool	Description
	Log in: Limits access to authorised users.

Table 9-1: CLARiSOFT Print Manager Tool Bar

Tool	Description
	<p>Next Job: Selects the next job for printing or downloading to the coder.</p>
	<p>Settings:</p> <ol style="list-style-type: none"> 1. Database Setup: Allows the user to specify the source: CLARiSOFT Database, or an External ODBC Database. 2. Language Selection: Selects the User Interface Language.
	<p>Printer:</p> <ol style="list-style-type: none"> 1. Printing: Selects a coder to connect to the Print Manager. 2. Communications: Allows the user to enter the network communication details. 3. General: Allows the user to select the Job selection method, set the print quality, select the Job selection functionality and set the CIFF Reference field. 4. Print Mode: Allows the user to set the print mode (Batch or Sequence). 5. SSCC: Allows the user to configure SSCC information for valid coders only.
	<p>History: Allows the user to view the history of jobs downloaded for printing and changes to the CLARiSOFT Print Manager.</p>
	<p>About: Allows the user to view the software version number.</p>

Table 9-1: CLARiSOFT Print Manager Tool Bar

Configuring Print Manager

Printing a Job using Print Manager and CIFF files

The following procedure explains how to print a job using the CLARiSOFT Print Manager. We will use a Videojet 1650 coder to print the job.

- 1 Click the *Log in* tool from the toolbar.
- 2 Enter the Username and Password supplied by your administrator and click *Login*.

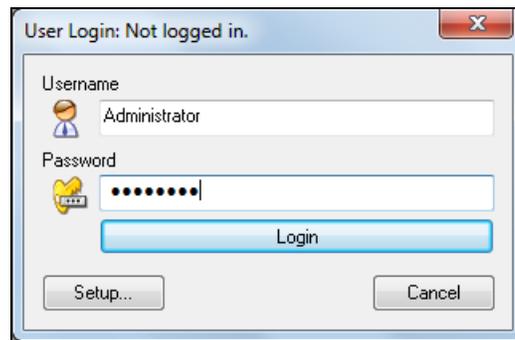


Figure 9-2: LogIn

- 3 Click the *Settings* button to configure the database source that CLARiSOFT Print Manager uses. Under *Where is my Database?*, select *CLARiSOFT Database*, to link to the CLARiSOFT database, if required. Select *User Specified Data Source*, if the database is an external ODBC one.

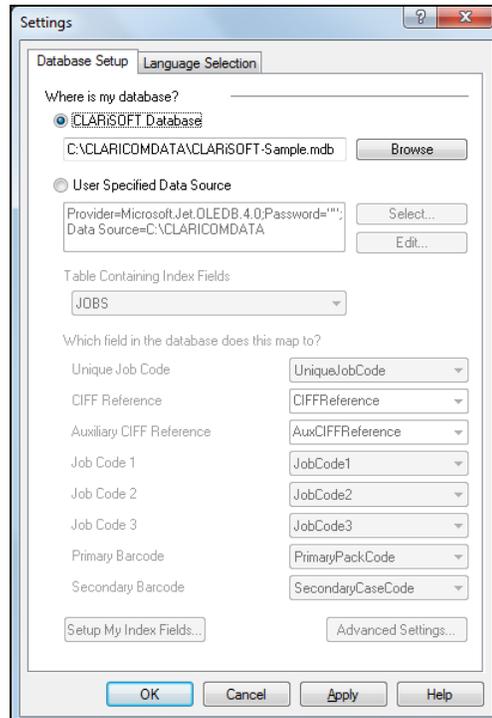


Figure 9-3: Database Setup

- 4 Click the *Language Selection* tab and click *Change* tab to change the language if required.
- 5 Click *OK*.

- 6 Select the Coder that will be used for printing. Click the *Printer* button. Under *Select Printer* option, select the required coder model. In this example, as we are using VJ1650, select *Videojet > CLARiTY > VJ1650*.

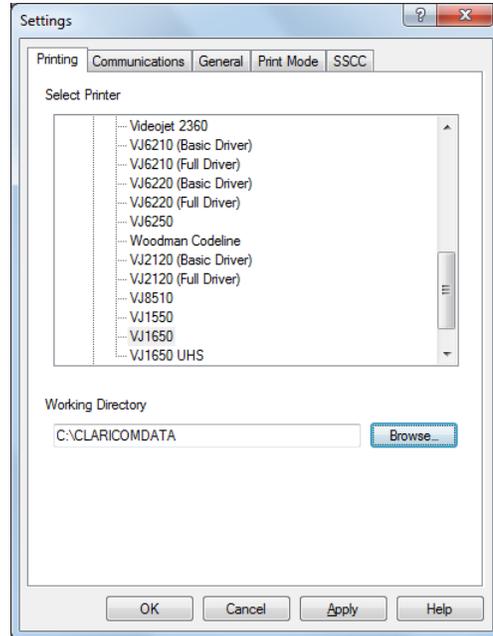


Figure 9-4: Select Printer

- 7 Using the *Browse* button, select the working directory where the CIFF files are stored. CLARiSOFT Print Manager will use this location to load the job files.

8 Click on *Communications* tab.

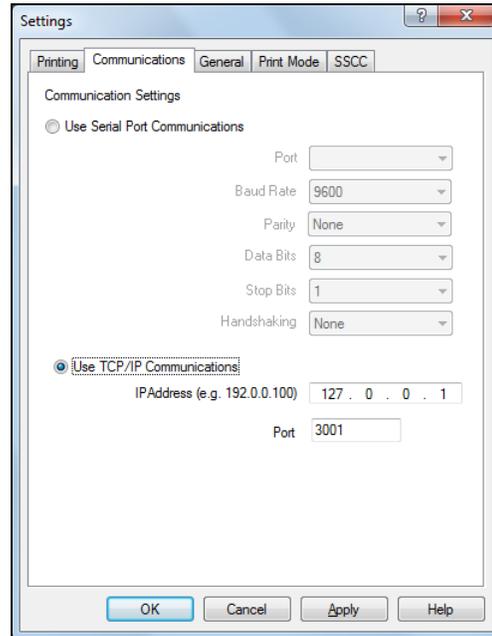


Figure 9-5: *Communications*

9 If the coder is connected via serial port, enter the *port number*, *baud rate* and other details as required.

If the printer is connected using a TCP/IP network, enter the *IP address* of the printer that is being connected. Enter the *port number* (For further information, refer to your Coder Documentation).

- 10 To configure the method of job selection, click on the *General* tab and select the *Job selection method* as *File Based*. Select the *Job Selection Functionality* as *Download without selecting*.

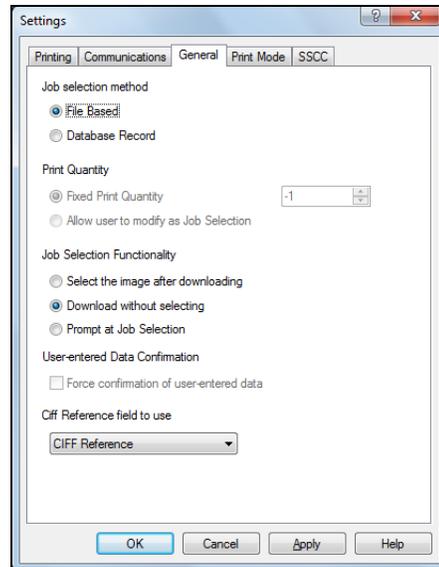


Figure 9-6: General Settings

- 11 Click *OK*.
- 12 Click the *Next Job* button. CLARiSOFT Print Manager displays the *Connecting* dialog box.

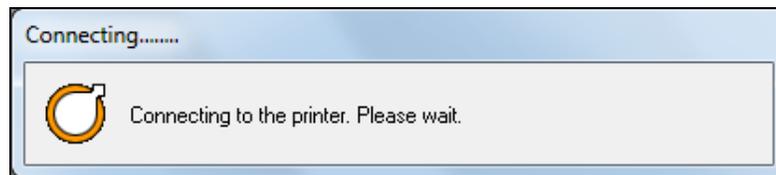


Figure 9-7: Connection Status

- 13 Once the connection is established, CLARiSOFT Print Manager prompts the job to be selected from the working directory. Select the job 'Pick List Example.ciff' and click *Open*.

- 14 The *Job Selection Confirmation* dialog box appears. Verify that the preview is correct and click *OK*.



Figure 9-8: *Job Selection Confirmation*

- 15 The job download starts. CLARiSOFT Print Manager displays the progress. Click *Close* when the download is complete.

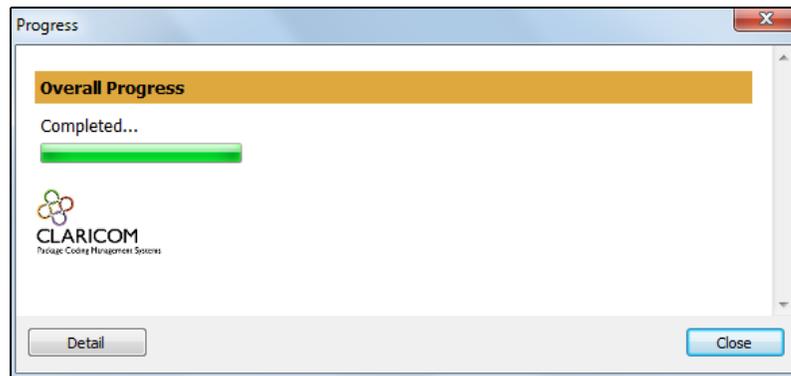


Figure 9-9: *Progress*

- 16 At the coder's user interface, touch the *Job* button. Select the job *Pick List Example* and touch *OK*.



Figure 9-10: Job Select

- 17 The prompt message defined in CLARiSOFT appears. Touch *Edit* to select the factory from the pick list.



Figure 9-11: Prompt Message during Job Selection

- 18 The list of factories created in CLARiSOFT appears. Select *Tokyo* from the list and touch *OK*.



Figure 9-12: Select the Factory

- 19 A tick mark appears showing that this user entered field has been completed. The factory location is changed to 'Tokyo' in the preview.



Figure 9-13: Job Select

20 Touch *OK*. The print preview is displayed.



Figure 9-14: Job Preview

21 Touch *OK*. The job is ready for printing.

Printing a Job Linked to a Database

CLARiSOFT Print Manager can be used to print CIFF files where the data are connected to a database.

In this example, we will print a sample CIFF file ('Inner Primary Example1.ciff') supplied with CLARiSOFT.

- 1 Click the *Log in* tool from the toolbar.
- 2 Enter the Username and Password supplied by your administrator and click *Login*.
- 3 Click the *Settings* button to configure the database source that CLARiSOFT Print Manager uses. Under *Where is my Database?*, select *CLARiSOFT Database*, to link to the CLARiSOFT database. Select *User Specified Data Source*, if the database is an external ODBC one.

- 4 Click *Browse* and select *CLARiSOFT - sample.mdb* from the default directory or choose the relevant ODBC connection to use (refer to “Linking CLARiSOFT to an external ODBC database” on page 7-17).

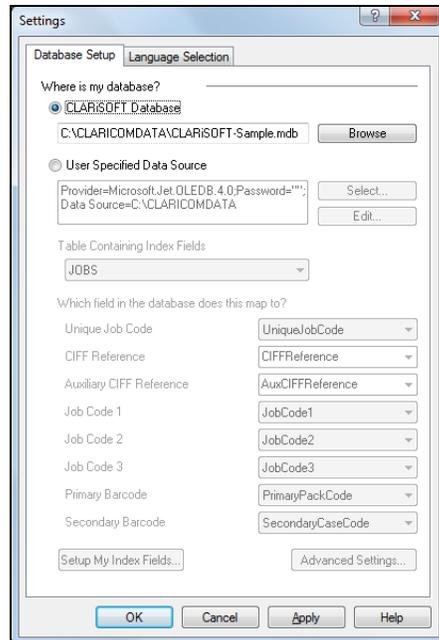


Figure 9-15: Settings

- 5 Click the *Language Selection* tab and click *Change* tab to change the language if required.
- 6 Click *OK*.

- 7 Select the Coder that will be used for printing. Click the *Printer* button. Under *Select Printer* option, select the required coder model. In this example, as we are using VJ1650, select *Videojet > CLARiTY > VJ1650*.

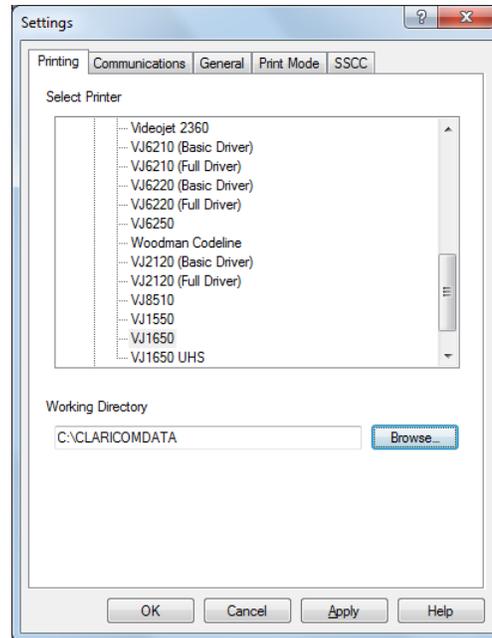


Figure 9-16: Select Printer

- 8 Click on *Communications* tab.

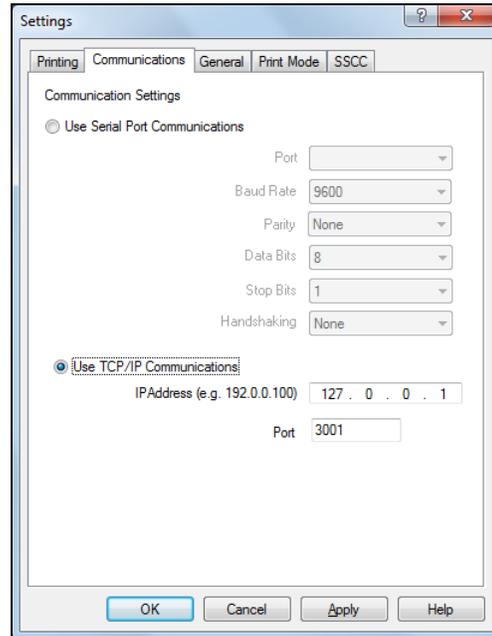


Figure 9-17: *Communications*

- 9 If the coder is connected via serial port, enter the *port number*, *baud rate* and other details as required.

If the printer is connected using a TCP/IP network, enter the *IP address* of the printer that is being connected. Enter the port number (For further information, refer to your Coder Documentation).

- 10 To configure the method of job selection, click on the *General* tab and select the *Job selection method* as *Database Record*. Select the *Job Selection Functionality* as *Download without selecting*

- 11 Select *CIFFReference* under *Ciff Reference field to use* or choose the database field name that contains the CIFF file name.

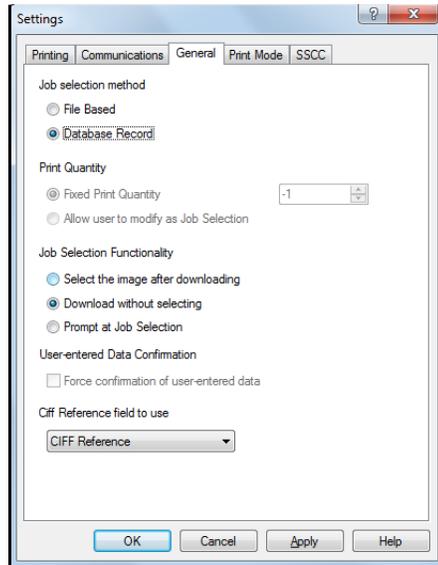


Figure 9-18: Job Selection Method

- 12 Click *OK*.
- 13 Click the *Next Job* button. The *Select Job Code* dialog box appears.
- 14 Following the database record for *Job Code 1*, double click on *Mega Market*.

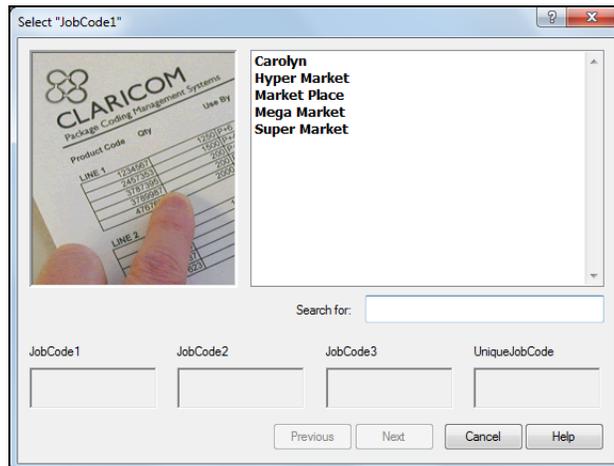


Figure 9-19: Select Job Code 1

- 15 From the *Job Code 2* list, select *Rice*.
- 16 From the *Job Code 3* list, select *500g*.

- 17 From the *UniqueJobCode* list, select *D002UK*.

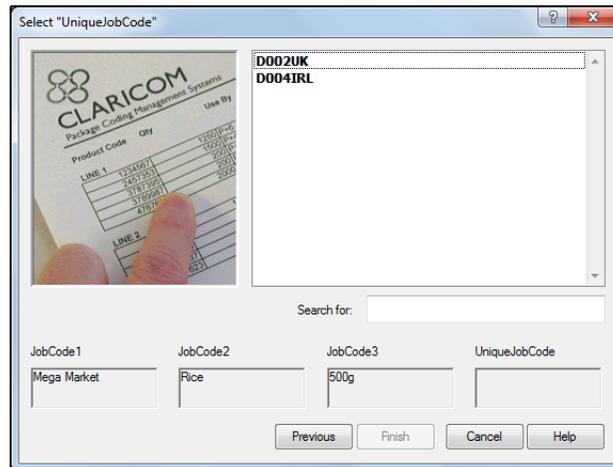


Figure 9-20: Select Job Code

- 18 Click *Finish*. The *Job Selection Confirmation* dialog box appears. Verify that the preview is correct and click *OK*.

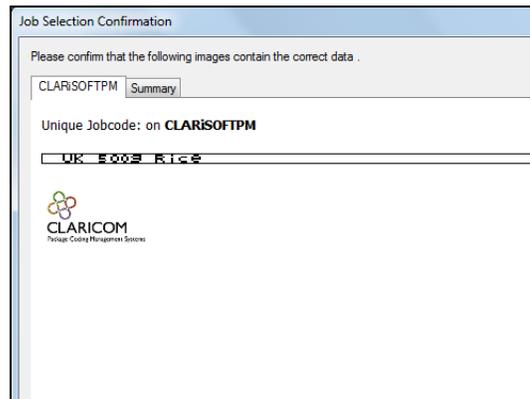


Figure 9-21: Job Selection Confirmation

- 19 The job download starts. CLARiSOFT Print Manager displays the progress. Click *Close* when the download is complete.

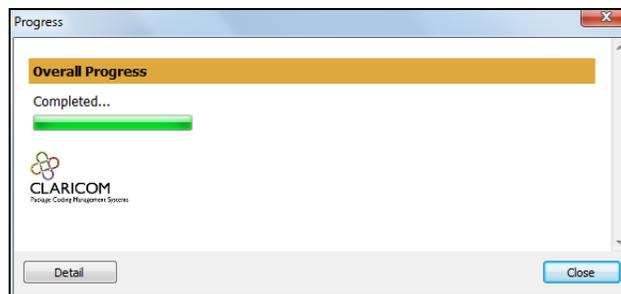


Figure 9-22: Progress

- 20 At the coder's user interface, touch the *Job* button. The transferred image appears in the job select list.



Figure 9-23: Job Select

- 21 Select the job and touch *OK*. The selected job appears in the home page and is ready to be printed.



Figure 9-24: Home Page

CLARiSOFT Database Manager

CLARiSOFT Database Manager enables the user to create new and manage existing CLARiSOFT databases such as adding, deleting or modifying records.

CLARiSOFT Database Manager uses a specific database structure which must not be modified. It is possible to read and write to files created by CLARiSOFT Database Manager (it uses Microsoft Access .MDB format) however if the structure is not maintained, the database will no longer be compatible with CLARiSOFT Database Manager and will be rejected.

CLARiSOFT Database manager files may be read, and subsequently used by other programs, however CLARiSOFT Database Manager is unable to edit, or import, any type of existing database. If this is required, use ODBC to link CLARiSOFT to the database.

Opening the CLARiSOFT Database Manager

- 1 Open CLARiSOFT Database Manager.
- 2 You will be prompted to enter a *Password*. Enter the password.

Note: The default password is 'admin'.



Figure 10-1: Enter Password

3 The sample database is opened by default.

UniqueJobCode	JobCode1	JobCode2	JobCode3	Description	SellByOffset	UseByOffset	CIFFReference	PrimaryPackCode	Price
D001UK	Mega Market	Rice	250g	UK 250g Rice	020/00/00	025/00/00	longtext.cif	0501234678909	£0.99
D002UK	Mega Market	Rice	500g	UK 500g Rice	020/00/00	025/00/00	Inner Primary E...	0504561237894	£1.80
D003IRL	Mega Market	Rice	250g	IRL 250g Rice	020/00/00	025/00/00	Inner Primary E...	0501234678909	
D004IRL	Mega Market	Rice	500g	IRL 250g Rice	020/00/00	025/00/00	Inner Primary E...	0504561237894	
FP0001	Carolyn	Flapjack	100g	Carolyn's Flapja...	000/00/00	012/00/00	FlapjackPrimary...		0
M001UK	Market Place	Chicken Tikka	500g	UK 500g Chick...	009/00/00	010/00/00	Inner Primary E...	0509876543210	£1.80
M002UK	Market Place	Chicken Tikka	750g	UK 750g Chick...	010/00/00	011/00/00	Inner Primary E...	0501236547890	£2.70
M003IRL	Market Place	Chicken Tikka	500g	IRL 500g Chick...	010/00/00	011/00/00	Inner Primary E...	0509876543210	
M004IRL	Market Place	Chicken Tikka	750g	IRL 750g Chick...	010/00/00	011/00/00	Inner Primary E...	0501236547890	
M005UK	Market Place	Chicken Korma	500g	UK 500g Chick...	010/00/00	012/00/00	Inner Primary E...	0501239874566	£1.80
M006UK	Market Place	Chicken Korma	750g	UK 750g Chick...	011/00/00	013/00/00	Inner Primary E...	0503124659784	£2.70
M007IRL	Market Place	Chicken Korma	500g	IRL 500g Chick...	010/00/00	012/00/00	Inner Primary E...	0501239874566	
S001UK	Mega Market	Lasagne	250g	UK 250g Lasag...	001/00/00	002/00/00	Inner Primary E...	5078888881238	£0.99
S002UK	Mega Market	Lasagne	500g	UK 500g Lasag...	002/00/00	003/00/00	Inner Primary E...	507777771237	£1.80
S003UK	Mega Market	Ravioli	250g	UK 250g Ravioli	003/00/00	004/00/00	Inner Primary E...	507666661236	£0.99

Figure 10-2: Sample Database

CLARiSOFT Database Manager Toolbar



Figure 10-3: Database Manager Toolbar

Tool	Description
	New: Creates a new database using a wizard or an existing template.
	Open: Opens an existing database
	Login: Login to CLARiSOFT Database. The button is disabled when you are logged in.
	Logout: Logout from CLARiSOFT. The button is disabled when you are logged out.
	Add New Record: Add a new record (a record is the name of a row or job) to the opened database.

Table 10-1: CLARiSOFT Database Manager Tool Bar

Tool	Description
	Edit Record: Edit the current record in the opened database.
	Delete Records: Delete the current record from the database.
	Copy Record: Copy the current record in the opened database.
	Paste Record: Paste the copied record into the opened database. This button becomes enabled when you copy a record.
	Print: Allows the user to print selected fields from the current database to a Windows printer. Note: The printing options must be setup in <i>File > Print</i> before printing.
	Set-up Database Properties: Configure the database structure (eg- field length, order etc).
	About CLARiSOFT Database Manager: Displays the software version information.

Table 10-1: CLARiSOFT Database Manager Tool Bar (Continued)

Managing the Sample Database

CLARiSOFT is supplied with a sample database, that contains common data fields used in the product coding and marking industry. The sample database can be edited as required.

Adding a new job to the sample database

In this example, we will add a new job containing the data below to the sample database.

Unique Job Code	D003UK
Job Code1	Super Market
Job Code2	Salmon Fillets
Job Code3	500g
Description	UK 500g Salmon Fillets
SellByOffset	5 Days
UseByOffset	10 Days
CIFFReference	Inner Primary Example1.ciff
Price	£ 5.10
AuxCiffReference	Secondary Example1.ciff

Table 10-2: New Job Data

Note: We are using the templates in the default directory of CLARiSOFT Inner Primary Example1.ciff and Secondary Example1.ciff. Other templates may be created as .ciff files with the database entry linked with them.

- 1 Open the sample database from the default directory.

Note: To understand the structure of the CLARiSOFT Database, refer to “CLARiSOFT Database Structure” on page 7-2.

- 2 The sample database contains all the fields we need. Click *Add New Record* in the tool bar.

- 3 The *Add new record* dialog box appears. Enter the *UniqueJobCode* for the new job (D003UK in this example) and click *Create Job*. The other data fields will become editable.

The screenshot shows the 'Add New Record' dialog box with the following data entered:

- Job Details:**
 - *UniqueJobCode: D003UK
 - CIFFReference: Inner Primary Example1.cif
- Tiered Job Codes:**
 - JobCode1: Super Market
 - JobCode2: Salmon Fillets
 - JobCode3: 500g
- Other Information:**
 - Description: UK 500g Salmon Fillets
 - SellByOffset: 5
 - UseByOffset: 10
 - Price: £5.10
 - Offset Type: Days (selected)
 - CaseQuantity: (empty)
 - PrimaryPackCode: (empty)
 - SecondaryCaseCode: (empty)
 - PackDescription: (empty)
 - *AuxCIFFReference: Secondary Example1.cif
 - Extra Cif Reference: (empty)
- Your Items:**
 - Weight: (empty)
 - longdesc: (empty)
 - FactoryCode: (empty)

Figure 10-4: Add New Record

- 4 Enter the data as shown in Figure 10-4.

Note: If the *AuxCIFF* reference is not in use, use data from the earlier *CIFFReference* Field for the *CIFF* file in use.

- Click *Save*. The confirmation window appears (Figure 10-5).

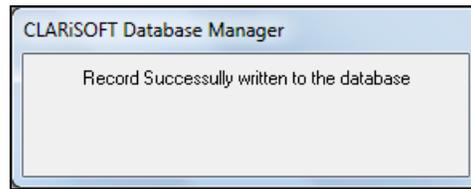


Figure 10-5: Confirmation

- Click *Close* to close the *Add New Record* dialog box.
- The new record is added to the sample database.

UniqueJobCode	JobCode1	JobCode2	JobCode3	Description	SellByOffset	UseByOffset	ClFFReference
D001UK	Mega Market	Rice	250g	UK 250g Rice	020/00/00	025/00/00	longtext.ciff
D002UK	Mega Market	Rice	500g	UK 500g Rice	020/00/00	025/00/00	Inner Primary Example1.ciff
D003IRL	Mega Market	Rice	250g	IRL 250g Rice	020/00/00	025/00/00	Inner Primary Example1.ciff
D003UK	Super Market	Salmon Fillets	500g	UK 500g Salmo...	005/00/00	010/00/00	Inner Primary Example1.ciff
D004IRL	Mega Market	Rice	500g	IRL 250g Rice	020/00/00	025/00/00	Inner Primary Example1.ciff
FP0001	Carolyn	Flapjack	100g	Carolyn's Flapja...	000/00/00	012/00/00	FlapjackPrimary.ciff
M001UK	Market Place	Chicken Tikka	500g	UK 500g Chick...	009/00/00	010/00/00	Inner Primary Example2.ciff
M002UK	Market Place	Chicken Tikka	750g	UK 750g Chick...	010/00/00	011/00/00	Inner Primary Example2.ciff
M003IRL	Market Place	Chicken Tikka	500g	IRL 500g Chick	010/00/00	011/00/00	Inner Primary Example2.ciff

Figure 10-6: Updated Sample Database

Editing the Database

In this example, we will be making the following changes.

- Adding a new data field: 'Packed In'
- Not using the data field 'Description'.
- Adding the new data field 'Packed in' to the right of the column 'Job Code 3'.

- Click on the row containing the job 'D003UK' we added in the previous example.

- Click the *Set-up Data Field Properties* button in the toolbar. The *Options* dialog box appears.

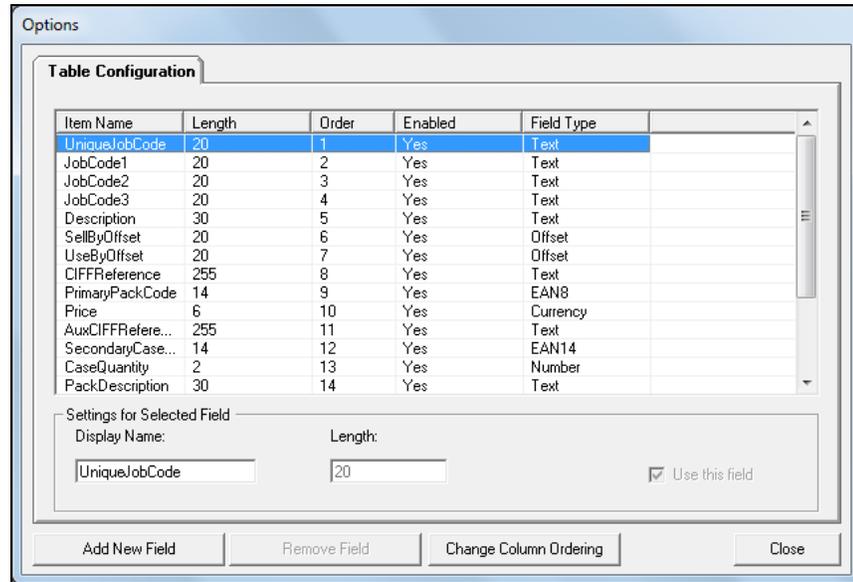


Figure 10-7: Options

- Click the *Add New Field* button.
- In the *Add New Field* dialog box, enter the *Display Name* as 'Packed In'. Select the *Data Type* as *Text* and enter the *Length* as '20'.

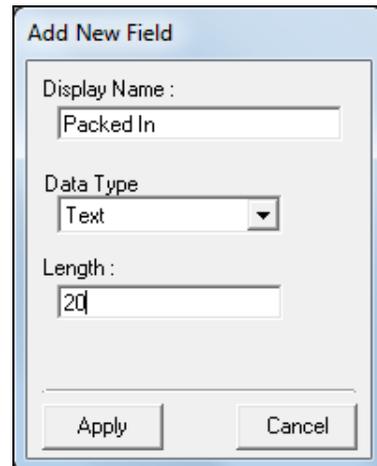


Figure 10-8: Add New Field

- 5 Click *Apply*. The following confirmation window appears.

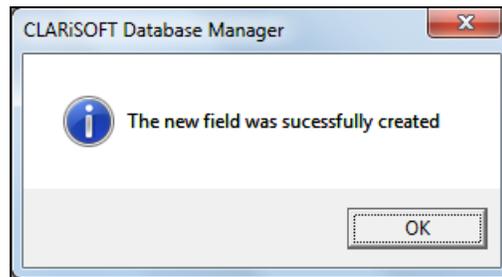


Figure 10-9: Confirmation

- 6 Click *OK*. The new data field appears in *Table Configuration* tab of the *Options* dialog box.
- 7 Select the field *Description*. Click on the check box *Use this field* to uncheck.

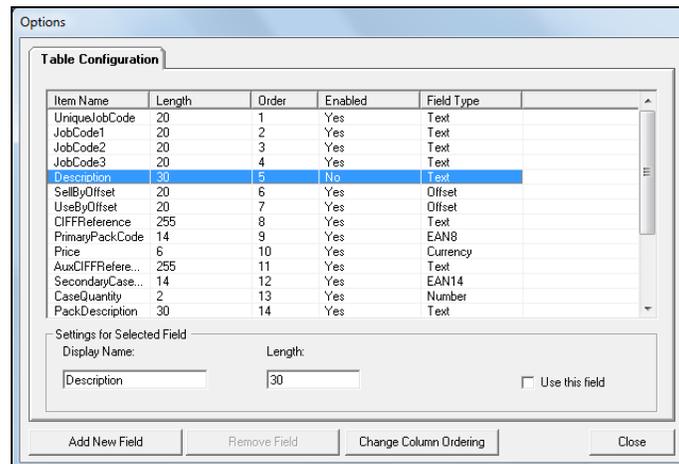


Figure 10-10: Hide the field

- 8 Click *Change Column Ordering* button. Displays the *Column Ordering Change* Dialog Box.

Note: Select *Packed In* and move up using the up arrow until it is placed below *Job Code 3*.

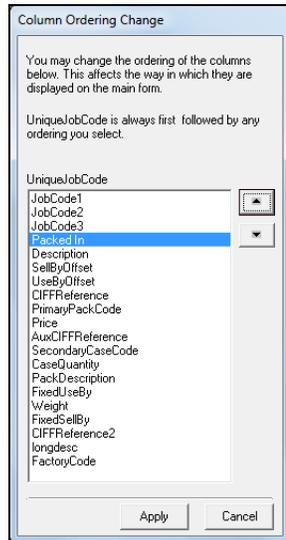


Figure 10-11: Column ordering

- 9 Click *Apply*.
- 10 Click *Close* to close the *Options* dialog box.
- 11 The *Packed In* data field is added next to the *Job Code3* data field. The *Description* data field is hidden.

UniqueJobCode	JobCode1	JobCode2	JobCode3	Packed In	SellByOffset	UseByOffset	CIFFReference
D001UK	Mega Market	Rice	250g		020/00/00	025/00/00	longtext.ciff
D002UK	Mega Market	Rice	500g		020/00/00	025/00/00	Inner Primary E...
D003IRL	Mega Market	Rice	250g		020/00/00	025/00/00	Inner Primary E...
D003UK	Super Market	Salmon Fillets	500g		005/00/00	010/00/00	Inner Primary E...
D004IRL	Mega Market	Rice	500g		020/00/00	025/00/00	Inner Primary E...
FP0001	Carolyn	Flapjack	100g		000/00/00	012/00/00	FlapjackPrimary...

Figure 10-12: Sample Database showing modified data fields

Note: To use the 'Description' data field again, click the 'Set-up Database Properties' button. Click on the 'Description' field and click on the check box 'Use this field'. A tick mark appears, indicating that this field is enabled.

Note: The data fields that we added during the worked example can be removed. 'Unique Job Code' and 'CIFF Reference' must always be enabled.

- 12 Click the job *D003UK* and click the *Edit Record* button. The *Edit Current Record* dialog box appears.

Figure 10-13: *Edit Current Record*

- 13 Enter the text 'UK' in the *Packed In* box under *Your Items*.
- 14 Click *Save Changes*. The following confirmation window appears.

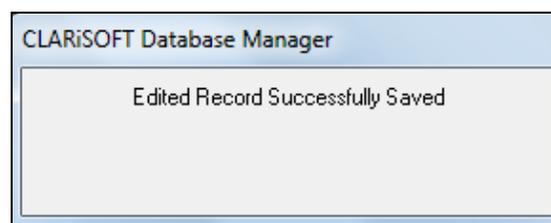


Figure 10-14: *Confirmation Window*

- 15 Click *Close* to close the *Edit Current Record* dialog box. The new record is updated and displayed in the database.

Creating a Database

The following four options can be used to create a database.

- **CLARiSOFT Database Wizard:** Guides the user through the steps required to build a new database.
- **Primary Coding Template:** A pre-defined database containing commonly used fields in primary product coding.
- **Primary and Secondary Coding Template:** A pre-defined database containing commonly used fields in primary and secondary product coding.
- **Secondary Coding Template:** A pre-defined database containing commonly used fields in secondary product coding.

CLARiSOFT Database Wizard

In this example, we will create a database, with four jobs, as shown below.

Product 1

Product Description	Spring Water
Internal Product Code	3WF
'Use By' Offset	365 Days
'Sell By' Offset	300 Days
UPC-A Data	0083046000135
UPC-E data	None
Price	\$11.99

Table 10-3: Product 1

Product 2

Product Description	Cola
Internal Product Code	RXD
'Use By' Offset	30 days
'Sell By' Offset	21 days
UPC-A Data	None
UPC-E data	04904403
Price	\$12.99

Table 10-4: Product 2

Product 3

This product is shipped to two different customers: Customer A and Customer B.

Product Description	Energy Drink
Internal Product Code	OGO (Customer A)
	DWG (Customer B)
'Use By' Offset	45 days
'Sell By' Offset	35 days
UPC-A Data	0501234567890
UPC-E data	01213405
Price	\$8.99

Table 10-5: Product 3

- 1 Open and login to the CLARiSOFT Database Manager.
- 2 Click *File > New* to create a new database. The following dialog box appears.



Figure 10-15: New Database

- 3 Click *Database Wizard* and click *OK*.
- 4 A prompt will be raised to select a name for the database. Enter the name 'New Database' and click *Save*.

5 The *Database Wizard* launches.

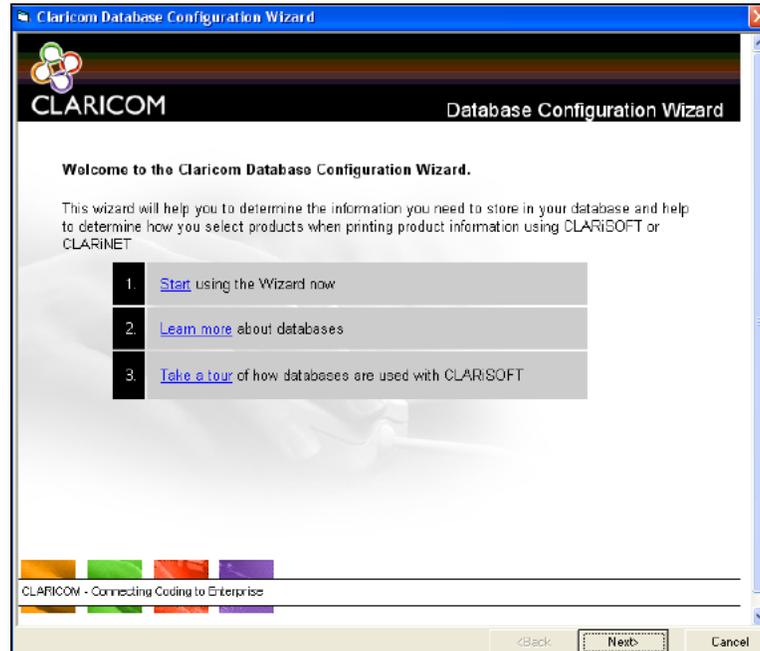


Figure 10-16: Database Wizard

- 6 Click the *Next* button or the *Start* link in option 1.
- 7 Click on the check boxes for both *Primary Packs* and *Secondary Packs* under *Use?* as shown below.



Figure 10-17: Database Wizard

- 8 Click *Next*. Commonly used fields will be presented in a table for review. Review Table 10-3 on page 10-11, Table 10-4 on page 10-11 and Table 10-5 on page 10-12 to identify the data requirements for this example.

Select the data requirements as shown in Figure 10-18. Note that the data field 'Internal Product Code' is not present in the commonly used fields.



Figure 10-18: Database Wizard

- 9 Click *Next*. The wizard prompts if 'Product Categories' (i.e. 'Product Tiers') is to be used.

Product Tiers allow subcategories to be created which aids the selection of the correct record in the database for the job. For this example, we will create three tiers: PRODUCT, CUSTOMER, NONE.

PRODUCT will allow the selection of any of the three products (Energy Drink, Cola or Spring Water).

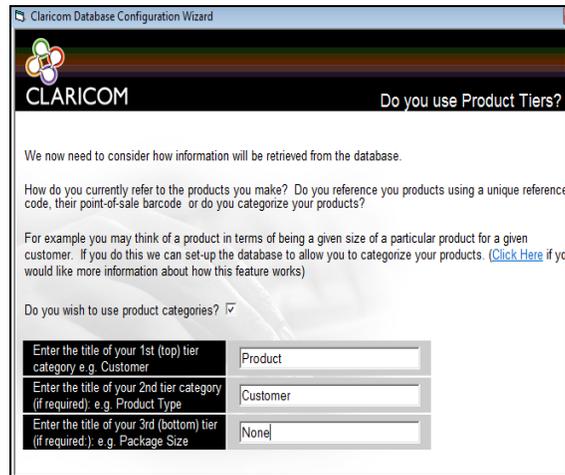
CUSTOMER will allow the selection of either of the 2 customers for our 'ENERGY DRINK' product. Therefore the selection of 'ENERGY DRINK'/ 'OGO' will point to a distinct record in the database.

Energy Drink	Customer A	Unique Job Code 1	Ciff Reference 1	Auxiliary CIFF Reference 1
	Customer B	Unique Job Code 2	Ciff Reference 2	Auxiliary Ciff Reference 2

Table 10-6: Product tiers

- 10 Click on the box *Do you wish to use Product Categories?*.

- 11 Enter the required product categories into each level. First PRODUCT, next CUSTOMER.



Claricom Database Configuration Wizard

CLARICOM Do you use Product Tiers?

We now need to consider how information will be retrieved from the database.

How do you currently refer to the products you make? Do you reference your products using a unique reference code, their point-of-sale barcode or do you categorize your products?

For example you may think of a product in terms of being a given size of a particular product for a given customer. If you do this we can set-up the database to allow you to categorize your products. ([Click Here](#) if you would like more information about how this feature works)

Do you wish to use product categories?

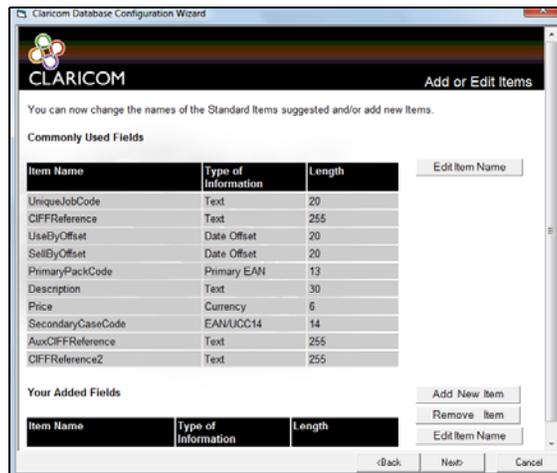
Enter the title of your 1st (top) tier category e.g. Customer: Product

Enter the title of your 2nd tier category (if required): e.g. Product Type: Customer

Enter the title of your 3rd (bottom) tier (if required): e.g. Package Size: None

Figure 10-19: Set Up Product Tier

- 12 Click Next.



Claricom Database Configuration Wizard

CLARICOM Add or Edit Items

You can now change the names of the Standard Items suggested and/or add new Items.

Commonly Used Fields

Item Name	Type of Information	Length	Edit Item Name
UniqueJobCode	Text	20	
CIFFReference	Text	255	
UseByOffset	Date Offset	20	
SellByOffset	Date Offset	20	
PrimaryPackCode	Primary EAN	13	
Description	Text	30	
Price	Currency	6	
SecondaryCaseCode	EAN/UCC14	14	
AuxCIFFReference	Text	255	
CIFFReference2	Text	255	

Your Added Fields

Item Name	Type of Information	Length	Add New Item	Remove Item	Edit Item Name

Back Next Cancel

Figure 10-20: Add / Edit Fields

- 13 In this dialog box, existing field names selected above can be edited or new field names can be added. Click on *Add New Item* to enter the field 'Internal Product Code' as shown in Figure 10-21. Click *OK*.

Note: *The following commonly used fields are not to be removed:*

- *UniqueJobCode*
- *CiffReferenceAux*
- *CIFFReference*



The screenshot shows a dialog box titled "CLARICOM Add A New Item". The dialog has a dark header with the CLARICOM logo on the left and the title "Add A New Item" on the right. Below the header, there are three input fields: "Name" with the text "Internal Product Code", "Data Type" with a dropdown menu set to "Text", and "Length" with the value "5". To the right of these fields are two buttons: "OK" and "Cancel".

Figure 10-21: Add New Item

- 14 Click on the Item Name 'Primary Pack Code' and click *Edit Item Name*. Change the item name as 'UPC-A data'. Click *OK*.



Figure 10-22: Edit Item Name

- 15 Click on the Item Name 'Secondary Pack Code' and click *Edit Item Name*. Change the item name as 'UPC-E data'. Click *OK*.
- 16 Click *Next*. The Database is now ready to be created.

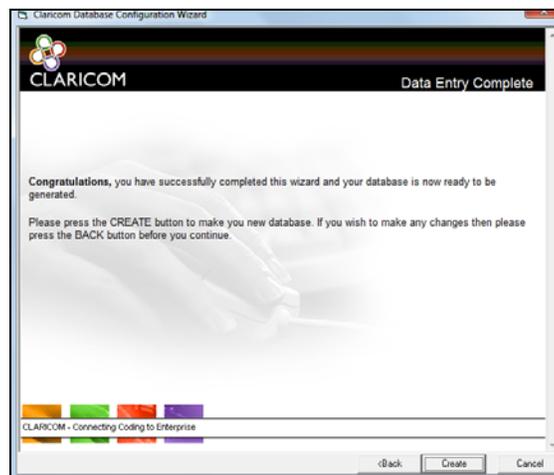


Figure 10-23: Data Entry Complete

- 19 Enter the 'UniqueJobCode' as 001 and click *Create Job*. Enter the other details as shown below.

Figure 10-26: Add Record

- 20 Add records for 'Product 2' and 'Product 3'. Note that 'Product 3' will have two unique job codes, one each for 'Customer A' and 'Customer B'. The database will now have four records as shown below.

UniqueJobCode	Customer	Description	SellBy/Offset	UseBy/Offset	CFFReference	UPC-A Data	Price	AuxCFFRefere...	UPC-E Data	Internal Product...
001		SPRING WATER	300/00/00	305/00/00	SPRING WAT...	0083046000135	\$11.99	sec 1.ciff		3wF
002		Cola	021/00/00	030/00/00	Cola.ciff		\$12.99	SEC 2.ciff	04904403	RxD
003	Customer A	Energy Drink	035/00/00	045/00/00	EnergyDrink Cu...	0501234567890	\$8.99	sec3.ciff	01213405	0GO
004	Customer B	Energy Drink	000/00/00	000/00/00	EnergyDrink Cu...	0501234567890	0	sec3.ciff	01213405	0wG

Figure 10-27: New Database

Refer to "Printing a Job Linked to a Database" on page 9-11 for more information on printing.