

Bounce Software Quick Start Guide

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Minimum system requirements

Processor:1.2GhzMemory:512 RAMFree Disk Space:4GBMicrosoft Windows XP Pro with Service Pack 2

Software Requirements

Windows Installer 3.1 Visual C++ runtime library SQL Server Express .NET Framework 2.0

Please note if you do not have these installed, Bounce Architect setup will install them for you.



Introduction

The bounce software suite is designed to provide a number of software modules and tools for defining the integration points between the your data and the EPOP. The software enables the development of image templates for simplifying the design of ticketing information and provides tools for defining rules that must be applied to the data feeds in order to ensure that the correct information is displayed on the EPOPs at the right time. The software also provides a network management layer for controlling the update of the EPOPs and recording auditing information that can be retrieved using the reporting module.

The software consists of four core elements:

Product	Description
Architect	This product consists of a Microsoft .Net application that provides the means to define the data sources for product information, set up what to do with the data and create a schedule of when the data should be examined for changes.
	Architect also provides tools for defining EPOP product image templates and for creating Collections of templates that will be used with the defined data set.
	The Policies and Collections that are created within Architect will then be used by Processor to generate images for the EPOP displays.
Processor	This product consists of a Microsoft .Net application that runs continuously on a server and uses the Policies and Collections defined within Architect to acquire the data when scheduled, perform the required transformations, determine what data has changed and render product images for those products whose data has changed.
Communicate	The product consists of a Microsoft .Net application that runs continuously on a server and is responsible for transmitting the appropriate product images to any EPOPs that have been assigned to the defined products.
	Communicate is responsible for providing the underlying communications structure for deploying a large number of EPOP display devices.
	Previous releases of Bounce Software consisted of only the Bounce Communicate element.
Manager	This product consists of a set of web pages, written for the Microsoft ASP.Net web application framework, residing on an ASP.Net compatible web server. It provides the tools required to manage a Bounce software installation via a Web interface.
	It provides a configuration manager, a report manager and an EPOP assignment manager.



Overview Diagram



Bounce Architect

Component

Policy Architect

Description

The Policy component consists of a Microsoft.Net application for defining the sources of data that will be used in acquiring the product information for the image generation process.

Data transformations are also created and edited within Policy Architect. Transformations can be used when the format of the data in the acquired data sources needs to be changed or reformatted to represent what will be rendered in the product image.

Schedules can also be defined within Policy Architect. A schedule defines when data should be acquired to determine if any changes have occurred in the data set. Any data changes result in new images being generated. A schedule can be as simple as a trigger based on when a data file changes, or a more complex predefined set of times when the data should be acquired from a remote database.

Policy Architect provides a means to preview both the acquired data and the EPOP images that will be created from the data.

Any policies that are defined within the Policy Architect application can be saved and imported into Bounce Processor as a configuration file.

Template Architect The Template component consists of a Microsoft.Net application for defining EPOP image templates. A template defines the information that should be displayed on an EPOP. It consists of a set of instructions detailing where and how data fields are rendered within the EPOP image.



Template Architect provides a template Design view alongside a Preview view. This allows the User to be able to see exactly how a product image (or set of product images) will be rendered from the product data set.

Template Architect also allows the user to create a Collection of templates. This feature ensures that different templates can be used when rendering the data to handle products that may be on offer, or in a different product category that requires its own style. A Template Collection also includes templates for each of the different EPOP types e.g. EPOP 500 and EPOP 300.

Once a User has completed the design of their Template Collection it can then be saved and imported into Bounce Processor as a configuration file.

Saved files can also be used by Policy Architect to preview the acquired data.

an EPOP 500 and an EPOP 300 assigned, then Communicate

Processor

Component		Description
Processor Acquire/Transf	orm/Render	This component runs as a Service on any Windows XP machine and performs the function of acquiring the data against a schedule of operation as defined in Architect. It then performs any required transformations and uses the acquired and transformed data to render a product image.
		For each product in the acquired data set a unique image will be generated using the specific template style defined within the data. Product images are created for each EPOP type included in the Template Collection e.g. EPOP 500, EPOP 300.
		Once an image has been rendered it is then passed to the Communicate component for transmission to the EPOPs.
		An audit trail is kept of when the data is acquired and when any product images are created and sent to the Communicate component.
Communicate		
Component	Des	cription
Processor Communicate	This mac any to th	component also runs as a service on any Windows XP hine and is responsible for managing the transmission of product images delivered via Acquire/Transform/Render he appropriate EPOP units assigned to the product.
	Whe chec and type	n Communicate receives a product image update it will k to see if any EPOPs have been assigned to the product then select the appropriate image for the specific EPOP and queue it for transmission e.g. if a product has both



selects the EPOP 500 image for transmission to the EPOP 500 and the EPOP 300 image for transmission to the EPOP 300.

Communicate manages the RF communications layer and will ensure transmissions are re-tried if failures occur due to RF noise etc.

An audit trail is kept of all EPOP communications, retries and failures.

Manager

Component	Description
Configuration Manager	The Configuration component consists of a web application that enables Users to remotely configure and control the Bounce Processor product.
	Users are able to update the Policy rules and Template Collections.
Assignment Manager	The Assignment component consists of a Windows .Net application for assigning EPOP units to products defined within Bounce.
	This application supports the use of barcode readers to simplify the EPOP assignment process. A User can simply scan the barcode of a product and the EPOP serial number label and then Assignment Manager will send a request to Bounce Communicate to set up an assignment between the product and the EPOP. This will result in the EPOP being updated with the latest product image for the selected product.
	Other variants of this component can be created for Windows Mobile PC or other handheld applications.
Report Manager	The Report component provides a web based application that enables the User to generate reports detailing when products, EPOPs etc. have been updated.
	Reports can also be generated of failed transmissions.



Workflow

The following diagram shows an overview of the workflow required to integrate a bounce system into a retail environment.



There are 7 steps to complete a full integration. These are:

- 1. Use Policy Architect to set the data sources and define the Template Fields that will be used in creating the product images. Template Fields are derived either directly from the Product Data Fields in the imported data sources or from transformations on the Product Data Fields.
- Use Template Architect to create a Collection of image templates for each EPOP type and for each offer type using the Template Fields defined in step 1 Steps 1 & 2 often become an iterative process as the templates are developed.
- 3. Use Policy Architect to define the scheduling policies that determine when the data will be acquired from the defined data sources and when the images will be transmitted to the EPOP devices.
- 4. Acquire the Data Values according to the transformation and policy rules defined in steps 1 & 3.
- 5. Render the product images using the Data Values acquired in step 4 and the Template Collection defined in step 2.
- 6. Update the EPOP devices according to the scheduling rules defined in step 3.
- 7. Use Reporter to view the update statistics.

The following guide details how to install the Bounce Architect, Processor and Manager elements of the Bounce software suite (see Bounce Communicate Installation Guide for how to install and use Bounce Communicate element).

It also details how to create an Architect Policy and Template configuration files and how to load these onto a PC running Processor, Communicate and Manager



Bounce Architect Installation Guide

Insert the Bounce Architect software CD into your CD-ROM drive. The install setup.exe should auto start. If it doesn't, Click on Start> Run and type D:SETUP.EXE. Replace the D: with the appropriate drive letter for your CD-ROM if it is not D.

Once the installer starts you will get the following screen. Click Yes to accept

Archite	ct 2.2.5.0	\mathbf{X}
2	Do you want to install Bounce Architect v2.2	.5.0?
	<u>Yes</u> <u>N</u> o	

Click Accept to install .NET Framework 2.0, you will only receive this message if .NET Framework 2.0 has not been previously installed on your machine.

🐻 BounceArchitect Setup 🛛 🛛 🔀	
For the following components:	
.NET Framework 2.0	
Please read the following license agreement. Press the page down key to see the rest of the agreement.	
MICROSOFT SOFTWARE SUPPLEMENTAL LICENSE TERMS A MICROSOFT STATE NAME VOIDS (2) MICROSOFT VINIONS INSTALLER 20 MICROSOFT VINIONS INSTALLER 20 MICROSOFTWARE (2) AND A MICROSOFTWARE AND A MICROSOFTWARE AND A M	
View EULA for printing Do you accept the terms of the pending License Agreement?	
If you choose Don't Accept, install will close. To install you must accept this agreement.	
Accept Don't Accept	

Click Accept to install Windows Installer 3.1, if not already installed. You will also be prompted for a system reboot. After the reboot the installation will continue.

Fe the following components: Vinctows Installer 3.1 Please read the following locate agreement. Press the page down key to see the read of the agreement. UNERCENTER FOR USER ICENSES ADREEMENT FOR MICROSOFT SOFT WATE: "Sarphenerid EULA"; MICROSOFT WATE: "Sarphenerid EULA"; MICROSOFT WATE: "Sarphenerid EULA, B" MICROSOFT WATE; MICROSOFT	🐱 BounceArchitect Setup 🛛 🛛 🔀		
Windows Installet 3.1 Please read the following locance agreement. Press the page down key to see the read of the agreement. Second Se	For the following components:		
Please read the following locate agreement. Press the page down keys to even here of the agreement.	Windows Installer 3.1		
SUPPELEVENTIAL END USER LICENSE ADREEMENT POR MICROSOFT SOFTWARE E Suppelevent all ULM? MICROSOFT SOFTWARE E Suppelevent all ULM? Software and the software and the software and the software romain or betware downware down (TDS Camporer's) are ubject lorenal for a betware downware down (TDS Camporer's) are ubject lorenal for a pelositik Microsoft operating system podul desclude lorenal for applicable Microsoft operating system podul desclude lorenal for continue of the Supplement EULA & TY HST ALLINE. MICROSOFT SOFTWARE ADDREED ADDREED ADDREED ADDREED ADDREED Imm and continue of the Supplement EULA & TY HST ALLINE.) Please read the following license agreement. Press the page down key to see the rest of the agreement.		
View EULA for printing	SUPPERENTIAL END USER LICENSE ADDREEMENT FOR MICROSOFT SOFTWARE Encodence and EULAT MICROSOFT SOFTWARE Encodence and EULA MICROSOFT SOFTWARE Discher Software EULA, in stada av provinario electronic documentalion ("Dis Camporent") are subject to her terma and constitución di las garantes EULAs in stada av las marches entres en las Superimental EULA, ar NIXA SULVIA, se men and conditore a dis Superimental EULA, BY NIXA SULVIA, se		
Do you accept the terms of the pending License Agreement? If you choose Don't Accept, instal will close. To instal you must accept this agreement. Don't Accept Don't Accept Don't Accept			

Click Install, this will install Visual C++ Runtime Libraries and SQLProcessor Instance

🕉 BounceArchitect Setup	X
The following components will be installed on your machine:	
Visual C++ Runtime Libraries (x86) SQLProcessorInstall	_
Do you wish to install these components?	
If you choose Cancel, setup will exit.	
Install [Cancel	



The following Bounce Architect Setup Wizard will start. Click Next



It is recommended you use the default location, leave as is and click **Next**

BounceArchitect	
Select Installation Folder	bounce
	1. A. S.
The installer will install BounceArchitect to the following folder.	
To install in this folder, click "Nest". To install to a different folder, enter it b	elow or click "Browse".
Eolder:	
C-VProgram Files\2BD Displays\BounceArchitect\	Bjowse
	Disk Cost
Instal BounceArchitect for yourself, or for anyone who uses this compute	r.
C Justme	
Cancel < Back	<u>N</u> ext >

Click **Next** to confirm your installation

👹 BounceArchitect			
Confirm Installation			bounce
The installer is ready to install Bouncedur Click "Neut" to start the installation	chilect on your computer		
	Cancel	< <u>B</u> ack	Next>

To complete the installation click **Close**

🚱 BounceArchitect	
Installation Complete	bounce
BounceArchitect has been successfully installed.	
Click "Close" to exit.	
Please use Windows Update to check for any critical updates to the .NET Framewor	k.
Cencel < Back	[lose]

This now successfully completes the installation of Bounce Architect. The following section demonstrates, how to create a policy and a template collection for use with Communicate and Processor.



Policy Architect

Template fields are created using Policy Architect. Definition of the template fields begins by determining all the different data sources that will be used to create them and registering these with the Policy Architect application. A data source can take any form of data, it may consist of a simple comma separated value file, an Excel spreadsheet, an Access database or more complex transactional databases such as Oracle or Microsoft SQL Server.

To start the application Policy Architect, double click the icon on your desktop \square or go to Start > All Programs > ZBD Displays > Bounce Architect > Policy Architect and the following Main Screen is displayed as below.





The first step in creating a policy is to create a connection to your data source, in the example below you will use the sample .csv data file which is provided on the CD – D:\Sample Data

Adding a Data Source

Right click DataSources and select Add DataSource



In the following screen below, you will add the name of your Data Source and select the connection method to your data.

Data Source	
Name:	
 File 	
🔿 Database	
O Advanced	
	Back Next Cancel

In our example we have used a .csv file, select file and click Next.

Data Source	
Datasource Type	
Name:	Sample
 File 	
🔿 Database	
 Advanced 	
L	Bock Next Cancel

The .csv file is available on the CD-ROM – D:\Sample Data You may also have downloaded it from the FTP site, the example data can be found in the folder Sampledata.zip

Data Source		
File		
Filename:	C:\Sample Data\SampleData.csv	
		Browse
Schema Filename:		
		Browse
		Test
	Back Finish	Cancel



To test the data source connection, click the Test and the following connected successfully screen below appears, click **OK**, this validates the file location is valid and readable.

	J
Connected Successfully	
ок	

Click OK again, and now you have successfully added your data source connection.

Once the data sources have been registered you will need to define the data tables and the Product data fields that contain the relevant product information to be used in creating the product image.

In a situation where there are multiple sources, each of the data tables registered to Policy Architect need to be linked to at least one other table to enable Policy Architect to determine how to retrieve the correct data values to make a consistent data set. Normally each of the data source tables would be linked via the product ID as this is a unique identifier that would be consistent across multiple data sets. In our example, for illustration purposes, we have used a .csv file, so there is only one table.

Adding a Table

The next step in the process is to link the table within your data source by right clicking on the Data source name and select add table, as below



Now, you will select the Name and Keyfield, as show below, the Keyfield is the unique identifier, and the Name is the table name. In our example it's the file name, because you are importing from a .csv file.

Data Table		
Table		
Data Source:	Sample	~
Name:	SampleData	~
KeyField	ProductID	~
Type:	nvarchar(max)	
LinkedField		Preview
Preview		
ОК		Cancel



You can preview your data source data by clicking Preview, the data will be previewed as shown below, then click OK.

Data Table		
Table		
Data Source:	Sample	×
Name:	SampleData	~
KeyField:	ProductID	~
Type:	nvarchar(max)	
LinkedField		Y Preview
Preview		
ProductID	Manufacturer	Product 🗠
ZBD001	Roberts	Radio
ZBD002	Samsung	40" HD Ready 1
ZBD003	Alba	15" LCD Silver
ZBD004	Bush	15" HD Ready Bl ⊻
<		>
ОК		Cancel

Once you have registered all the data sources and linked the tables you can concentrate on determining what fields should be retrieved from the tables in order to define the Template Collection fields.

Template Collection fields are a selection of any fields you wish to make available from your data source for use in generating your images using Template Architect.

Delicy Architect		
File Edit Vew Help		
X 🗃 🖳 🗮 🗮 🛎 🗇 🛄 🔗		
Constanting Constanti	C → € ⊕ a → Progr 1 Region Flat:	Þ
	Ivod Ferenan lin File Net Ford 1	
L	10.77/2009 2 28 29 PM	1.1

Adding Template Collection Fields

Next you need to add your template collection field. Right click on the selected field name from the imported table you wish to add to Template and Click Add





In our example we have chosen to add the following field names.

EAN Code Long Description Manufacturer Model Price Product ProductID PromoPrice Short Description

It is recommended you use the above field names.

The added field names will also move to the Template Collection Field, as shown below.



Now within the template collection fields you need to set the ProductID field, in our example we are using the ProductID. Right click, go to Assign To and select ProductID, as shown below. This allows Bounce Communicate to Identify the ProductID



Click the import button, to preview your selected template collection fields in Policy Architect.



A special Template Collection field called [Template] must be defined. This field contains the name of a Template Architect template that will be used when creating the product image. Using Policy Architect we are able to create new template fields by applying transformations to the Product data fields e.g. we can create a new template collection field called [UnitPrice] that is calculated from the data source by taking the [Price] and dividing it by the [UnitWeight].

In our example we are going to create two [Template] fields which are populated with 'Standard' & 'Promo', using transformations.

Transformations

Transformations allow you to manipulate existing fields or create new constant fields. This consist of standard SQL statements and can include any of the Template Collection Fields previously added. The SQL statement can be made up of anything that is valid in the Select Clause.

Creating a Transformation

To create a transformation right click transformation and select New Transformation, the follow screen below appears.



Enter an appropriate name for the transformation field, in your example you have chosen Standard.

Transformation		
Name		1
Standard		
Constant		
O Operation		
Field:		
Operator:	Value:	
O Condition		
Field		
Comparison	Value:	
Result:	Exception:	
Presieu	Preview	Advanced>
	DK. Cancel	



You are going to create a constant, with the value of Standard. As shown below.

Transformation		
Standard		
Builder Constant		
Standard		
O Operation		
Field		
Operator:	Value:	
 Condition 		
Field		
Comparison	Value:	
Result	Exception:	
Deriv	Регион	Advanced>
Preview		
	OK Cancel	

Click the Preview button to see the results of your created transformation. Click Ok to finish creating the transformation.

Transformation		
Name		
Standard		
Builder		
Chandead		
Journald		
O Operation		
Field		
Operator:	Value:	
O Condition		
Field		
	V Yaue.	
Hesut		
	Destan	[Advantation]
Preview	- TRANSFER	- Autoneouss
Standard		<u>^</u>
Standard		
Standard		~
	OK Cancel	

Now you are going to create a second template field for the promotional data. Repeat the above steps, creating a transformation using the transformation name as Promo, and creating a constant value of Promo, as shown below.

Transformation		
Name		1
Promo		
Oconstant		
Promo		
Ende		
Operator:	Value:	
O Condition		
Field:		
	Value:	
- Barriel		
	Preview	Advanced>>
Preview		
Promo		^
Promo		
Promo		×
	OK Cancel	



The created transformations will also be added to your template collection field set, as shown below

Sample	< > 🛃 😥 Al	•				
😑 🛄 SampleData	EAN Code	LongDescription	Manufacturer	Nodel	Price	Product
EAN Code	4173A4173	Power - Mains / Battery	Roberts	R9928	39.99	Radio
EuropDescription	520733708	Sound type - SRS Tausunound X 3aHDMI	Samsung	VTD	949.99	40" HD Ready 1080p digit
- Manufacturer	673467890	1024 x 768 Screen Resolution Remote Control	Alba	067567	129.99	15" LCD Silver
NSL Code	989789746	1280 x 800 Screen Resolution Nicari Stero Sound	Bush	P234	159.99	15" HD Ready Black
- 🚰 Price	128626972	500:1 Contrast ratio 1 HDMI Connection	Bush	EX45	179.95	19" HD ID Black
- Product	143245566	Widescreen Plano Colour Black	Daewoo	TV97	229.75	19" Digital Black
PromoPrice	128424165	640 x 480 Screen Resolution Nicam Stero Sound	Philips	EV0243	239.99	20" Black
- Record Type	456864342	1024 x 768 Screen Resolution 2 Scart Sockets	Sony	VAID	242	15" Silver
ShortDescription Supplier Code	453567755	Sound type - Nicam stereo sound 2xHDMI	Philips	FGY	749	42" HD Ready digital place
Transformations	567676776		Sony	SN5678	123	CD Player
- Promo	<					
문 Long Coorpition 문 Long Description 문 Manufactures 문 Product 문 Product 문 Product 문 Product 문 Product 문 Product 문 Product		Page 1 Template Field				
PromPrice PromPrice ShortDescription Standard	Invalid Template file (File Not Found:	×)				

You also need to assign the transformation template fields created. This is so that Policy Architect can determine which template name to use.

Right click on field name Standard in the template collection fields and go to Assign To and select Page 1 Template, as below.





Repeat the above assign task for the second template field name Promo to Page 2 Template, as shown below.



You have now successfully created two transformations, one allowing you to create a standard image template and the other a promotional template.

Now you are ready to design your Template images using Template Architect.



Template Architect

Template Architect provides a graphical user interface with a template design view alongside a preview view. This allows you to be able to see exactly how a product image (or a set of product images) will be rendered from the product data set.

Using the GUI you can select a Template field and define the area on the EPOP display that the values contained in the template field should be rendered. A selection of field attributes is also available so that you can apply different fonts, font styles, font sizes etc. The template field object can be inverted to displays white on black or the object can be set to auto fit within a bounding rectangle defined by the user.

Template Architect also allows you to create a collection of templates. This feature ensures that different templates can be used when rendering the data to handle products that may be on offer, or in a different product category that requires its own style. A template collection also includes templates for each of the different EPOP types e.g. EPOP 50, EPOP 300 and EPOP 500.

To define your template collection you will need to start Template Architect, this can be started within Policy Architect, by clicking the Template Architect icon \square , the following screen below will appear, click OK to start a new template collection design.

File	Edit Verv	Tempiate	Datassare	Help
20				· # + + + +
D N	Aa 📾 🖫	N 🖂 🔿	111S	· 7 · B / 7
				Charge Template
				Cleate New Template Collection
				O Open Existing Template Collection
				Brovie
				OK Cancel

Save the file with a unique name, for our example we have chosen Sample



Template Architect main screen and icons



To create a new template, click the new template icon 🛅.

Add new Template

You are going to create an image Template for EPOP 500 in landscape layout, with template name Standard, this is the name you used previously when creating your transformation, click OK.

Template Name	
Template Name:	Standard
EPOP Type:	EPOP 500 💌
Layout	
 Landscape 	 Portrait
Base Template on	
 None 	
 Parent Temp 	late 🔽
Clone Temple	ste



The screen below shows your data imported top left corner, from Policy Architect.



Now you are ready to start to design your image template.

Select the appropriate fields from the imported data, drag and drop onto the Design window, by holding down your mouse and moving the pointer to the design window and then releasing the mouse button. The data will be shown on the preview window, as shown below.

Template Arc	hitect - Sample				E F	
Eds Edd Mar	u Template Male					
File EOK We	v rempiace melp					
20082	Standard •	• EPOP 500 • 🖽 ^ Y	/ ()			
🗟 🔪 Aa 🚭 🎙	🛚 🔜 🕑 🗁 🔺	rial 🔻 7 🔹	B 7 2			
Field Values		Design		Properties		
Field Name	Value	[Manufacturer]		PriceObject1		
EAN Code	128525972			E Maior Curre	ncu narameterr	
LondDescription	500.1 Contrast rati	[Product]		MajorSymbol	E	
Manufachan	Push			MajorSymbolF	on Arial	
Mandal	DUAT		95	MajorSymbolF	os Start	
Nodel	Eved	[LongDescription]	[mice]	MajorSymbolS	ize 100	
Pace	179.95			Minor Curre	ncy parameters	41
Product	19"HD ID Black	[ShortDescription]		MinorDurrency	01100	- 1
PromPrice	161.96	. L		MinorCurrency	6) p 6. 100	-
ShortDescription	19 inch screen Inte			MinorSambolE	on Arial	- 1
ProductD	ZBD005	[Model]		Misc		
Standard	Standard	·	105	MandatoryFiel	d False	
Promo	Promo	[EAN Code]	(Productio)	🗄 Object Font		
				FontSize	7	
		Preview		FontStyle	Regular	
		Bush		PriceFont	Arial	
		Duon		Strikeout	False	
		19" HD ID Black		StikeouDirec	to Diagonal	
		TO THE ID Black		B ubject Prop	erces	
				Color	Black	
		500:1 Contrast ratio 1 HDMI	£170.05	Name	PriceObject1	
		Connection	2119.90	E Position	188, 85, 132, 10	R I
		(Freeview) HD Ready		Price	[Price]	
				SeparatorCha	lec .	
				Type	PriceObject	~
		FX45		Name		
Loop Products				Defines the name	e of the object	
			ZBD005			
		1		1		-
pacasource: Policy A	rchitect					

It is recommended you add the objects in the design view as above.



To create our second template, for our promotional data, go to the following drop down as shown below and select New.

L	Template Architect	- Sample	
	File Edit View Ter	mplate Help	
	🎦 💣 📙 🖳 Standa	ard 🔹 EPOP 500	
۱	👌 🔪 Aa 🚭 🏢 Standa	ard	
	Field Values		D
	Field Name	Value	[N
	EAN Code	968650944	
	LongDescription		[F
	Manufacturer	Dell	
	Model	L1687	L
	Price	199	[[L
	Product	LCD Monitor	i c
	ProductID	ZBD011	I ^c
	ShortDescription		
		170.1	ΗN

Enter the details as below, making sure you select Clone Template Standard. This allows you to create a clone image of the first template created 'Standard'. This simplifies the task of creating another template if only minimum set of modifications are required.

New Template								
Template Name-								
Template Name:	Promo							
EPOP Type:	EPOP 500 💌							
Layout								
 Landscape 	 Landscape Portrait 							
Base Template on								
None								
🔘 Parent Templ	ate Standard 🕑							
 Clone Templa 	te Standard 🖌 🖌							
OK	Cancel							

Reposition an object box

Select the text object using left mouse and holding down move the text object to the desired position in the Design window or by selecting the object and using the arrow cursor keys to move the object.

Resize an Object box

To resize move the mouse cursor to the object border until mouse cursor changes \mathfrak{U} , now you can resize by moving the border line.



Edit an Object box

Right click on selected object and go to properties



Advance Object properties, are available on selected object Properties screen.

II Template Architect	- Sample					
File Edit View Te	mplate Help					
🕈 🗃 🛄 💟 2ard	erd • EPOP 500	- # A V C	>			
	302					-
И 🖌 на 📾 🕮 🖼	C () 10 His	1 10 1	u 20			_
Field Values		Design		Properties		
Field Name	Value	[Manufacturer]		TextDbject1		-
EAN Code	969789746			E Antonice Parame	herr	
LongDescription	1280 x 800 Science Berro	(Product)	798-11-12	Master	False	
Man fasters	Dush	L	[Pnce]	SlaveProportian	100	_
Madel	0334			Condition		
Noos	P234			LeftArgument		
Pice	158.99	[LongDescription]		Openator	Equate	_
Product	15" HD Ready Black	ShortDroceinting	,	Fighblagument.		_
ProductD	280004	Contrascription		E Misc	C 1	
ShorDescription	15 inch screen Analogue .		,	Handakor/Field	raise	_
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		L		Eastine	7	_
		EAN Code	(ProductID)	FortSMe	Begular	- 1
-			r - 1	Stikeout	False	-
		Parview		StrikeoutDirection	Horizontal	
		Buch		E Object Propertie		
		Bush		Autosize	True	
		15" HD		BackgroundColor	Transparent	
		Deedu Dieek	- ·	BoundingBlox	None	_
		Ready Black	£159.99	BoundingBoxWidth	1	_
			2100.00	HasFortSize	0	_
		1290 x 900 Sureen Recalution		nate Durite	n 100 157 20	_
		Nicam Stere Sound		E Poston	0, 108, 157, 28	- 11
		15 non screen Analogue turner		TextColor	Plack	_
		TE TOBAL		100000	Drack.	~
		D234		Name		
I have been seen and see	d fast star			Defines the name of th	e object	
C which deviders said an			700004			
- Lui - M.			20004			
Detasource: Policy Archited	t					_

Types of Objects

Text Box

Insert a text box

- 1. In the toolbar, click the text icon
- 2. Create a text frame, drag the pointer diagonally to the size you want on the design window.
- 3. The following text properties box will appear

lext		
	Field	V Add
Font	_	State .
Font Name	Arial	V Usice
Font Size	10	Rold
7.101	Disale	

Static Text

To create static text on your template, enter the text into the text box.

Data Text

To create data text from your data source file, select the field name from the drop down list and click $\mbox{\rm Add}$



AutoSize

When autosize is enabled the font size of the text will be adjusted to ensure all of the text can be displayed within the bounding rectangle of the text object. By default the Autosize function is enabled, note that the defaulted minimum font size is set to a value that ensures the text will be rendered legibly on an EPOP.

Turn off Autosize

1. Right click on your selected object and go to properties, uncheck the Auto Size check box, by default auto size is the on

Text		
(LongDescripti	on]	
	Field	V Add
Font		
Font Name	Arial	Signe
Font Size	10	Italics Rold
Taud Calaura	Black	

Price Object

Indicates which field determines the price of the product, right click on the Price Object and go to properties, the following box will appear. This allows you to change the Major and Minor Symbols, it also allows you to change the font size of both symbols.

Major Symbol	Price Field	Minor Symbol
٤ 🗸	[Price]	🕶 p 💌
Price Font		Stule
Name	Arial	
Size	10	Rold
0120	10	
Currency Syr	nbol override	
Font	Arial	~
- Minor Symbo	l Override	
Font	Árial	



List Object

A List object consists of multiple Text objects and Price objects into one bounded rectangle group. This simplifies manipulating them. A list object can be selected, moved, resized and edited as one object or individually. List objects can be bounded horizontally or vertically. Below the properties box of list objects allows you to set various settings, by right clicking the list object and selecting properties.

ist Properties	;				
Bullet			-Bullet Properti	es	
None			Font Size:	7	~
Specified	Numbering	~	Indexs Circ	10	
 Custom 		~	muerit 512e	10	Y
List Items			Border		
Show	All	~	Туре	None	*
Autosize	False	~	Width	1	\$
	Item Setting:				
	ОК		Canc	el	

Once you have completed you template design, you need to save it. From the Menu bar select File > Save Collection.

Now you need to go back to Policy Architect and click Import to view the template changes you have made.

Policy Architect							
File Edit Wew Help							
X 🗁 😕 🗄 🕷 🖉 🗭 🔽 🔗							
😑 😂 DelaSources	< > 🛃 😥 All	•					
🖻 🥌 Sample 🔒 🛄 SampleData	EAN Code	LongDescription	Manufactu	rer Model	Price	Product	Product ^
Department	417364173	Power - Mairce / Battern	Boberts	F 9928	39.99	Bado	Z80001
- EAN Long	520733708	Sound type - SRS Trupunound X 3/HDMI	Sanaung	VTD	949.99	40" HD Ready 1080s digital LCD	ZBD002
- Manufacturer	673467890	1024 x 768 Screen Resolution Remote Control	Alba	Q67567	129.99	15" LCD Silver	ZBD003
Mill Code	989789746	1290 x 800 Screen Resolution Nican Stero Sound	Bush	P234	159.99	15" HD Ready Black	ZBD004
- Price	128626972	500:1 Contrast ratio 1 HDMI Connection	Bush	EX45	179.95	19" HD ID Black	ZBD005
- 2ª Product	143245566	Widescreen Piano Colour Black	Dameso	11/97	229.75	19" Digital Black	ZBDOOE
ProductD PromoPrice	128424165	640 x 480 Screen Resolution Nicam Stero Sound	Philos	EV0243	239.99	20" Black	ZBD007
Record Type	456664342	1024 x 768 Screen Resolution 2 Scart Sockets	Sorv	VAID	242	15" Silver	ZBD005
ShortDescription	453567755	Sound type - Nicam stereo sound 2xHDMI	Philos	FGY	749	42" HD Ready digital plasma TV	ZBD005
Suppler Loce	567676776		Sorw	SN5678	123	CD Player	ZBD01C
Promo	968650944		Dell	L1687	199	LCD Monitor	ZBD011
Standard	e .						
EAN Code	COOD DOD						
- IngDescription	Feron 000						
- 27 Manufacturer	Page 1	Template Field: Standard	<	K Page	2 Template	Field: Promo	>
- Price	Dala			Dala			
- Product	Rob	erts		ROD	ents	S SALE	
-S Promo	Deal	11 -		Ded	: -		_
PromoPrice	Rad			Rad	10	025.0	\sim
- Standard		£39.99				£30.9	9
4.1.00000	Power - M	ains / Battery		Power - M	ains / Ba	ittery	-
	Tuner - EM	MW/I W Partio		Tuper - FM/	www.w	Padio	
	P9928			P9928			
E Transformation							
Name Promo		ZBD001				ZBD001	
Hanstomation (Promo							
C:\Sample Data\Sample.zta				10/7/20	09 2:50:25	PM O	

Now you have successfully added a data source and selected Template collection fields to create a template design standard and promo for you EPOP's.

To view your data with the template design imported in to Policy Architect. Scroll through your records using the up and down arrow in the data preview window. The new image with the selected product will be displayed within the Image preview window, this allows you to validate the image.



Scheduling

The final step is to define the schedule in which the data source should be read and processed.

In our example, we are going to create a schedule that will run our standard template image with a our promotional Image displayed between the hours of 4pm and 6pm of each day.

To set the schedule, click the schedule icon in Policy Architect O, and the following screen below will appear.



A new policy configuration is created with a default schedule. In our example we want to use a more complex schedule. Delete the default schedule by selecting it and clicking on the "Remove" button

Click Add, to open the schedule creation window, as shown below.

Add Schedule	
 Schedule 	Schedule Type
Monday Friday	One Off Time:
Tuesday Saturday Vednesday Sunday Thursday Select All	Recurring All Day Recurring All Day
	Start
Action:	Interval:
OK	Cancel

Schedule 1 Setting

- Schedule	Schedule Type
Monday V Friday Tuesday V Saturday Wednesday V Select All	One Dif Time:
Action: DownloadAndUpdate V Page: 1	Statt 00:00 • End 15:59 • Intervat 00:00:30 •



Schedule > Select All

This determines we wish the schedule to run daily, on all the selected days.

Action > DownloadAndUpdate

This downloads and updates the EPOP with new image, and also monitors for any change to the data source and will update the EPOP with the new image

Page > 1

This will only update page 1 with the new image, any changes to the page 2 image will also be downloaded to the EPOP, but not displayed.

Schedule Type > Recurring > Period Start 00:00 Finish15:59 This is the time the schedule will run between

Interval > 00:00:30

This will run every 30 seconds to check datasource for any changes

Schedule 2 Setting

Add Schedule		
Schedule	Schedule Type	
Vay ✓ Monday ✓ Friday	 One Off Time: 	16:00
Vednesday Vednesday Sunday Jureday Sunday	Recurring All Day	
	Start:	
Action: Update	End	
OK.	Cancel	

Schedule > Select All

This determines we wish the schedule to run daily, on all the selected days.

Action> Update

This will update the EPOP with new image

Page > 2

This will update only page 2 with the new image, (if you can remember we set our template field in policy architect Promo > Page 2 template)

Schedule Type > One Off> 16:00 This will run at 16:00



Schedule 3 Setting

Add Schedule	
Schedule Day Monday Friday	C One Off Time:
Vednesday Vednesday Sunday Vednesday Select All	Recurring All Day Period
	Start: 16:01 🗸
Action: DownloadAndUpdate	End 17:59
Page: 2	Interval: 00:00:30
ОК	Cancel

Schedule > Select All

This determines we wish the schedule to run daily, on all the selected days.

Action > DownloadAndUpdate

This downloads and updates the EPOP with new image, and also monitors for any change to the data source and will update the EPOP with the new image

Page > 2

This will only update page 2 with the new image, any changes to the page 1 image will also be downloaded to the EPOP, but not displayed.

Schedule Type > Recurring > Period

Start 16:01 Finish17:59 This is the time the schedule will run between

Interval > 00:00:30

This will run every 30 seconds to check datasource for any changes

Schedule 4 Setting

Add Schedule				
- Schedule Day Mondau	Fridau	Schedule Type	40.00	
✓ Tuesday	Saturday	Recurring =	18:00	
 Wednesday Thursday 	 Select All 	All Day Period		
Astinu II-data		Start: End		*
Page: 1	×	Interval:		×
	OK	Cancel		

Schedule > Select All

This determines we wish the schedule to run daily, on all the selected days.

Action> Update

This will update the EPOP with new image

Page > 1

This will update only page 1 with the new image, (if you can remember we set our template field in policy architect Promo > Page 2 template



Schedule Type > One Off> 18:00 This will run at 18:00

Schedule 5 Setting

Add Schedule	
Schedule Day Y Monday Y Friday Y Tuesday Y Saturday W Wednesday Y Sunday Y Turyday Y Sater ôll	Schedule Type One Off Time: One Control All Day One David
Action: DownloadAndUpdate V Page: 1 V	Start: 18.01 End 23.59 Interval: 00.00.30
ОК	Cancel

Schedule > Select All

This determines we wish the schedule to run daily, on all the selected days.

Action> DownloadAndUpdate

This downloads and updates the EPOP with new image, and also monitors for any change to the data source and will update the EPOP with the new image

Page > 1

This will only update page 1 with the new image

Schedule Type > Recurring > Period Start 18:01 Finish 23:59 This is the time the schedule will run between

Interval > 00:00:30

This will run every 30 seconds to check datasource for any changes

It is recommended to use the above settings.

Your completed schedule should look as shown below.

Schedules					
Day	Start	End	Interval	Action	Page
Monday, Tuesday, Wed	00.00.00	15:59:00	00:00:30	DownloadAndUp	1
Monday, Tuesday, Wed	16:00:00			Update	2
Monday, Tuesday, Wed	16:01:00	17:59:00	00:00:30	DownloadAndUp	2
Monday, Tuesday, Wed	18:00:00			Update	1
Monday, Tuesday, Wed	18:01:00	23:59:00	00:00:30	DownloadAndUp	1

Now click OK to save the schedule.



Congratulations, you have completed the configuration phase of the Bounce Software.

To use the configuration files with Bounce Processor and Bounce Communicate, you will need to export and save your Policy and Template Architect configuration files, which will be uploaded via Bounce Manager

To export your configuration file, click on the export icon in Policy Architect and save file.

The Template Architect configuration file you have already saved, when creating the New template collection, but you will need to re-save any changes made, by selecting File > Save Collection in Template Architect, as show below.

2	💶 Template Architect - Sample						
	File	Edit	View	Template	Hel	p	
		Save O	ollection	Ctrl+S		•	E
		Exit				Ar	ial



The following sections detail how to install Bounce Processor and Bounce Manager on a PC running the Bounce Communicate software (see Bounce Communicate Installation Guide).

In each location that has EPOPs deployed a PC must be set up to manage the network of EPOPs and perform the communication functions. This PC will also be required to run Bounce Processor to monitor the data fields specified in Policy Architect and render the images specified in Template Architect. Bounce Manager is also required to Manage the PC Configuration

The following section assumes that the user has already installed and set up Bounce Communicate on a PC as documented in the Bounce Communicate installation guide.

Bounce Processor Installation Guide

To start the installation of Bounce Processor, run BounceProcessorSetup, click **Yes** on the following screen below to continue installation process.

Bounce	Processor 2.2.5.0
2	Do you want to install Bounce Processor v2.2.5.0
	<u>Yes</u> <u>N</u> o

The following setup wizard will start, click Next

🛃 BounceProcessor	
Welcome to the BounceProcessor Setup Wizard	bounce
The installer will guide you through the steps sequend to initial BioanceProcessor on yo	a computer.
VARNING. This compute program is sockeded by copulpil law and intervational tred Unastrobated displayation or distribution of this program. A way portion of it, may read in or criminal penalties, and will be prosecuted to the maximum extent possible under the l	ies. severe civil w.
Cancel < Back	<u>N</u> ext>

It is recommended you use the default location, leave as is and click Next



Click Next to confirm your installation





To complete the installation of Bounce Processor click **Close**

19 BounceProcessor	bounce
BanceRocener has been accessively installed Cick "Dow" to ext	
Please use Windows Update to check for any critical updates to the .NET Framework	
Cancel <back< td=""><td>Çlove</td></back<>	Çlove

Your installation of Bounce Processor is now completed. A new windows service has now been installed. Before Bounce Processor will process any of your data sources you will need to upload your Policy configuration and Template collection files. To do this, you will need to install Bounce Manager.

Bounce Manager Installation Guide

To start the installation of Bounce Manager, run BounceManagerSetup. The following Bounce Manager Setup wizard will start, Click **Next** to continue the installation.

🕫 BounceManager 📃 🗖 🔀
Welcome to the BounceManager Setup Wizard bounce
The installer will guide you through the integrine diactic initial BounceNetwager on your computer.
WWINDE: This cost out program is protected by cooping if are not investigated trades. Unput the second sec
Cancel Calck Next>

It is recommended you use the default web site, leave as is and click **Next**.

😥 BounceManager	
Select Installation Address	bounce
The installer will install BoundHanger to the following with location. To install to this web location, click "Rest". To install to a different web loc game Dates all vides to the second second second second second second Dates all vides to the second second second second second second second second second second second se	cation, enter it below.
Cancel (ga	ck. <u>H</u> est>

Click **Next** to confirm your installation





To complete the installation click **Close**

👹 BounceManager	
Installation Complete	bounce
BounceManager has been successfully installed.	
Click "Close" to exit.	
Please use Windows Update to check for any critical updates to the .NET Framework	c.
Cancel (Back	Qose

Your installation of Bounce Manager is complete. The Bounce Manager web pages have now been installed and can be accessed via the following URL <u>http://localhost</u>

To load the Policy and Template Architect configuration files, you will need to run Bounce Manager, and select configuration update, as shown below

bounce		zhd.
Bounce Manager Configuration Manager Ponfiguration Manager Postponde Uat Schothole Uat Assignment Manager PAloris Report Manager Product Information Product Information Product Information Product History Processor Audi Purcessor Audi Pu	Select the configuration you wish to load Policy Configuration & Template Collection ➤ Policy Config Template Collection. Load Configuration Status: Copyright (c) 2008-2009 ZBD Displays Ltd. Bounce M	Browse Browse

Click the browse button under Policy Config and locate your saved Policy Architect configuration file with extension .zpa, you need to do the same for the Template Architect collection file with extension .zta. Finally click the Load Configuration button. You will receive the following status message as shown below.

Status:

Policy Configuration and Template Collection uploaded Successfully

Congratulations you have successfully loaded your Policy and Template Architect files which will be used with Bounce Processor and Bounce Communicate.

Bounce Processor will now perform the function of acquiring the data against the schedule of operations as defined in Policy Architect, then performs any required transformations and uses the acquired and transformed data to render a product image. For each product in the acquired data set a unique image will be generated using the specified template style designed in Template Architect.



Custom Images

bounce			zhd.
Bounce Manager Configuration Manager P Configuration Update P <u>Custom Images</u> P Schedule List P Assignment Manager	This page is used to uplo - Configured - Image u - No Image Available - - Unassigned - Image	oad custom system images. sed to when the EPOP is initially added to the system Imaged used when the EPOP has no other image available used when EPOP is unassigned	
▶ Alerts ▼ Report Manager	Selected Image:	Configured V	
Failure Report Product Information	EPOP 50 Image:		Browse
Product History EEPOR History	EPOP 300 Image:		Browse
Veekly updates	EPOP 600 Image:		Browse
P Processor Audit ▷ Update Queue	EPOP 700 Image:		Browse
About Bounce Manager	Change Selected	Images	
	Restore All Default	Images	
	Status:		
	L		
	Copyrig	ht (c) 2008-2009 ZBD Displays Ltd. Bounce Manager Ver	sion: 2.1.3.0

Custom images are a set of system images, which are updated to the EPOP when specific operations are performed.

The following system images

Configured - Image used to when the EPOP is initially added to the system

No Image Available – Image used when the EPOP has no other image

Unassigned – Image used when the EPOP is unassigned

Bounce Manager allows you to change the system images, this is useful if you require to add you own personalised images.

Assignment Manager

bounce	1251 S	zhd.
Bounce Manager Configuration Manager P Configuration Update Count Images Schedule List Assignment Manager	Assignment Manager	
Keport Manager Failure Report Product Information Product Information Product History ProCeP History Weekly updates Processor Audit Update Queue Abunt Baunce Manager	Product ID.	
	Product Desc: Product Details:	
	Status:	
	Conversion (a) 2009 2009 280 Diseloud Lt	1 Bounce Manager Version: 2 1 3 0

Assignment Manager, allows you to add/assign and delete your EPOPs to products

To add/assign EPOPs enter your EPOP serial number and click the Enter button, then follow by entering you Product ID and click Enter.

To delete EPOP from the system, enter your EPOP number and click Enter and type 'DELETE' (must be entered in uppercase) and click Enter, this will now delete the EPOP from you system



Alerts



The Alerts page shows you useful system information, such as database size, communicator attached, and any system errors. Alerts are classified as informational, warning and critical.

Report manager



Report manager gives you a system summary overview and also has a set for generated reports detailing when Products and EPOPs have been updated, it also includes failed transmission reports.

Failure Report



The shows you the EPOPs which failed last product update



Product Information

bounce							z	d.
Bounce Manager Configuration Manager Configuration Update	14 4 1	oft ⊳ ≽i	100%	End [N	nd Select	a format	✓ Export	\$
F Custom Images F Schedule List F Assignment Manager		Pre	oduct In	formation	1			
▼ Report Manager	Produc	t Information		EPOP In	nformation			
Failure Report Product Information Product History	ID	Description	EPOP ID	Last Updated	Battery	Temp (°C)	Total Updates	
 EPOP History Weekly updates 	⊞ 001-3004	15" TV		4/1/2009 11:00:56 AM				19
Processor Audit Vipdate Queue	002-3005	20" LCD TV						

A report generated giving you details of products currently on your system

Product History

bounce				z	d.
▼ Bounce Manager ▼ Configuration Manager ▷ Configuration Update ▷ Custom Images	Product ID: 001-3004			Vie	w Report
 ▶ Schedule List ▶ Assignment Manager ▶ Alerts ▼ Report Manager ▶ Esilver Deset 	4 4 1 of 1 ▷ ▷	Product His	Find Next Selec	t a format 💌 Export	ø
Product Information Product History EPOP History	Time	Action	Details	Retry	
▷ Weekly updates ▷ Processor Audit ▷ Update Queue ▷ About Bounce Manager	3/31/2009 11:01:06 AN	1 Created	new description = 15" TV		
Ŷ	Copyright	(c) 2008-2009 ZBD Displays	s Ltd. Bounce Manager V	ersion: 2.1.3.0	

A detailed history report of products activity on your system

EPOP History

bounce				zhd.
▼Bounce Manager ▼Configuration Manager	EPOP ID: EM000001588			View Report
Configuration Update Custom Images	[4] 4 1 of 1 ≥ ≥]	100%	Find Next Select a format	💌 Export 🛛 🔮
 ▶ Schedule List ▶ Assignment Manager ▶ Alerts 		EPOP Histo	ry	
▼ Report Manager	Time	Action	Details	
Product Information Product History	4/1/2009 11:00:56 AM	Download & Display	Success - page 1	1
EPOP History Veekly updates	4/1/2009 11:00:56 AM	Statistics	Temperature = 23C, Battery = Good	1
Processor Audit Undate Queue	4/1/2009 10:56:41 AM	Download & Display	Success - page 1	1
About Bounce Manager	4/1/2009 10:56:41 AM	Statistics	Temperature = 23C, Battery = Good	1
	3/31/2009 11:03:18 AM	Download & Display	Success - page 1	1
	3/31/2009 11:03:18 AM	Statistics	Temperature = 23C, Battery = Good	1
	3/31/2009 11:01:16 AM	Assigned	Assigned to product 001-3004	1
	3/31/2009 10:53:09 AM	Download & Display	Success - page 1	1
	3/31/2009 10:53:09 AM	Statistics	Temperature = 23C, Battery = Good	1
	3/31/2009 10:52:47 AM	Unassigned		1
	3/30/2009 4:31:03 PM	Broadcast Update	Success - page 1	1
	3/30/2009 4:15:02 PM	Broadcast Update	Success - page 2	1
		1		

A detailed history report of EPOP activity on your system



Weekly Updates

Bounce Manager Configuration Manager	4 4 1 of 1 ▷ ▷	100%	Find Next	Select a format 💌 Export		
P Contiguration Update	Weekly Updates					
Alerts Alerts Alerts Alerts Pailure Report Product Information Product Information Product History EPOP History Weekly updates	Update Date	Product ID	Product Description	Update Count		
	⊞ 02 Apr 2009 \$			48		
	E 26 Mar 2009 \$			118		

A weekly report generated for number of updates, sorted by product.

Processor Audit



Processor report which shows you the activity preformed by Bounce Processor of the schedule created in Policy Architect

Update Queue



Shows what is currently queued in Bounce Communicate