

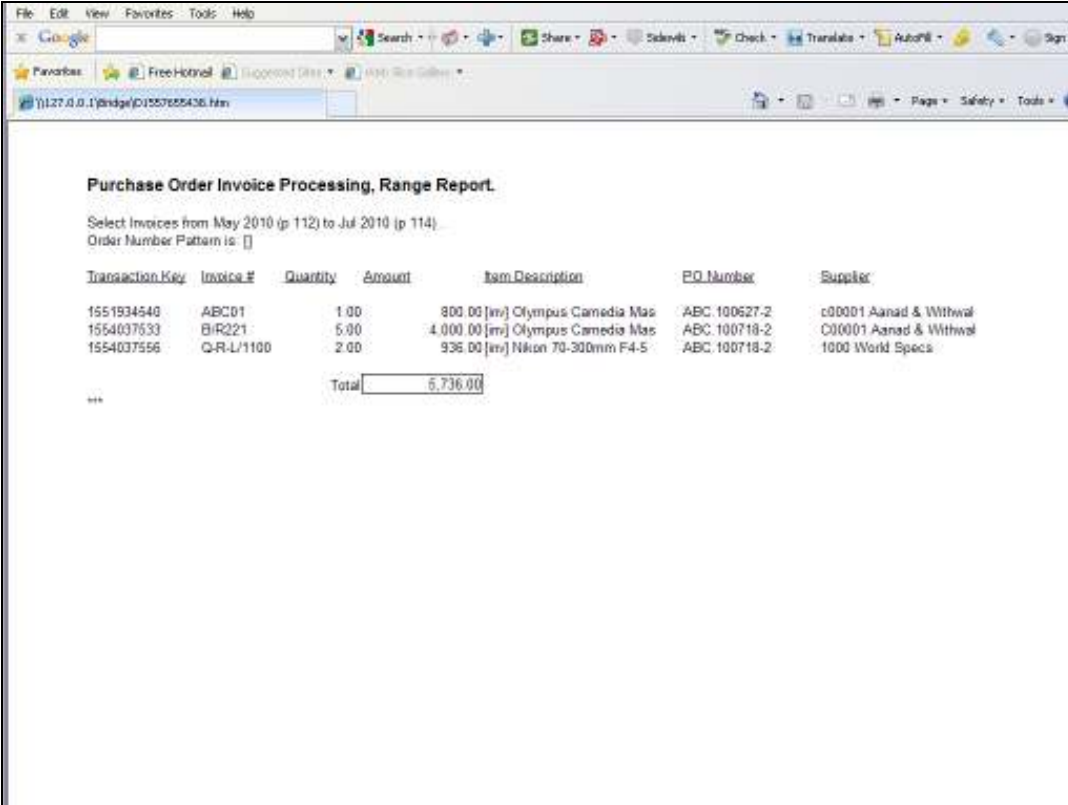
The screenshot shows a web browser window with a Google search bar and various toolbars. The address bar displays a file path: \\127.0.0.1\bridge\O1557655436.htm. The main content area displays a report titled "Purchase Order Invoice Processing, Range Report." Below the title, it says "Select Invoices from May 2010 (p 112) to Jul 2010 (p 114)." and "Order Number Pattern is: []". The report contains a table with the following data:

Transaction Key	Invoice #	Quantity	Amount	Item Description	P.O. Number	Supplier
1551934540	ABC01	1.00	800.00	[m] Olympus Camera Mas	ABC 100627-2	c00001 Aanad & Withwal
1554037533	BIR221	5.00	4,000.00	[m] Olympus Camera Mas	ABC 100718-2	C00001 Aanad & Withwal
1554037556	Q-R-L/1100	2.00	936.00	[m] Nikon 70-300mm F4-5	ABC 100718-2	1000 World Specs
		Total	5,736.00			

\*\*\*

## Slide 1

Slide notes: This is an example of a Report where we use a Unit based on Iterative Keys, or iKeys for short. In this example, the Transaction Keys are selected from the Transaction Trail, and act as Iterative Keys for our Unit.

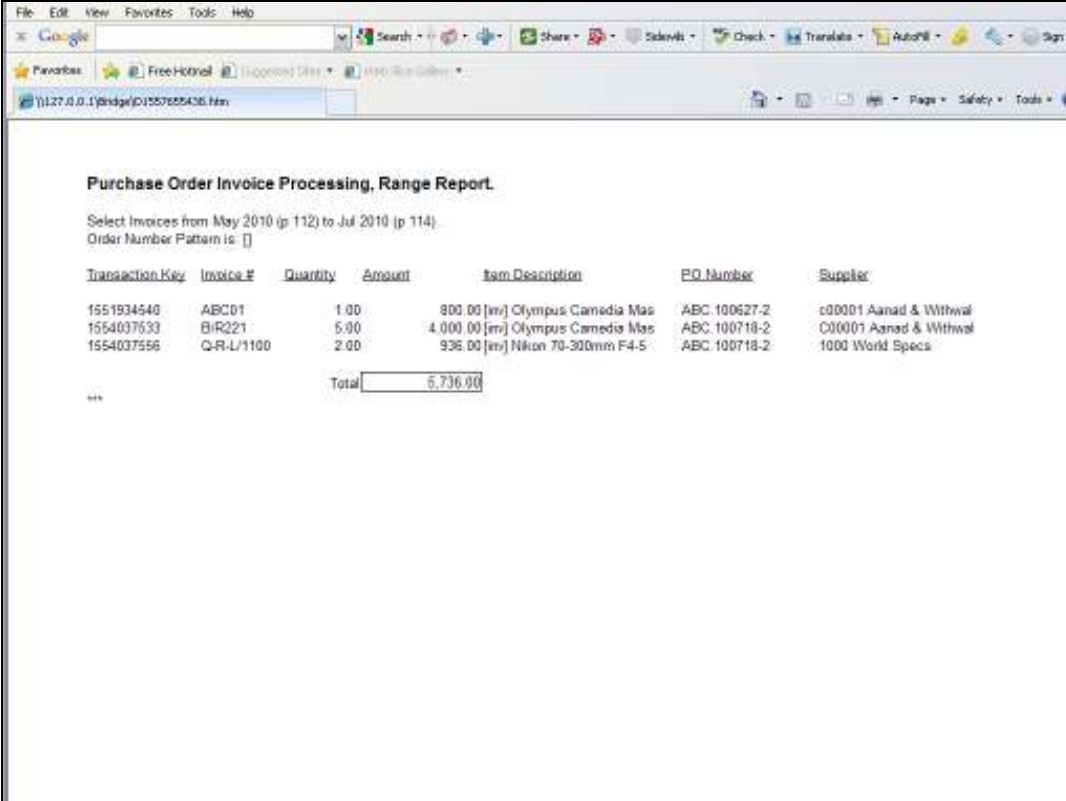


The screenshot shows a web browser window with a Google search bar and various toolbars. The main content area displays a report titled 'Purchase Order Invoice Processing, Range Report'. Below the title, there is a selection criteria line: 'Select Invoices from May 2010 (p 112) to Jul 2010 (p 114)' and a text field for 'Order Number Pattern is:'. The report contains a table with columns: Transaction Key, Invoice #, Quantity, Amount, Item Description, PO Number, and Supplier. The table lists three transactions. At the bottom, there is a 'Total' row with a value of 6,736.00.

Transaction Key	Invoice #	Quantity	Amount	Item Description	PO Number	Supplier
1551934540	ABC01	1.00	800.00	[inv] Olympus Camera Mas	ABC 100627-2	C00001 Aanad & Withwal
1554037533	BiR221	5.00	4,000.00	[inv] Olympus Camera Mas	ABC 100718-2	C00001 Aanad & Withwal
1554037556	Q-R-L/1100	2.00	936.00	[inv] Nikon 70-300mm F4-5	ABC 100718-2	1000 World Specs
		Total	6,736.00			

## Slide 2

Slide notes: We will look at the use of the 'Iterative Numeric with iKey Select' Template. With this Unit, the columns for Quantity and Amount are examples of the use of this Template.

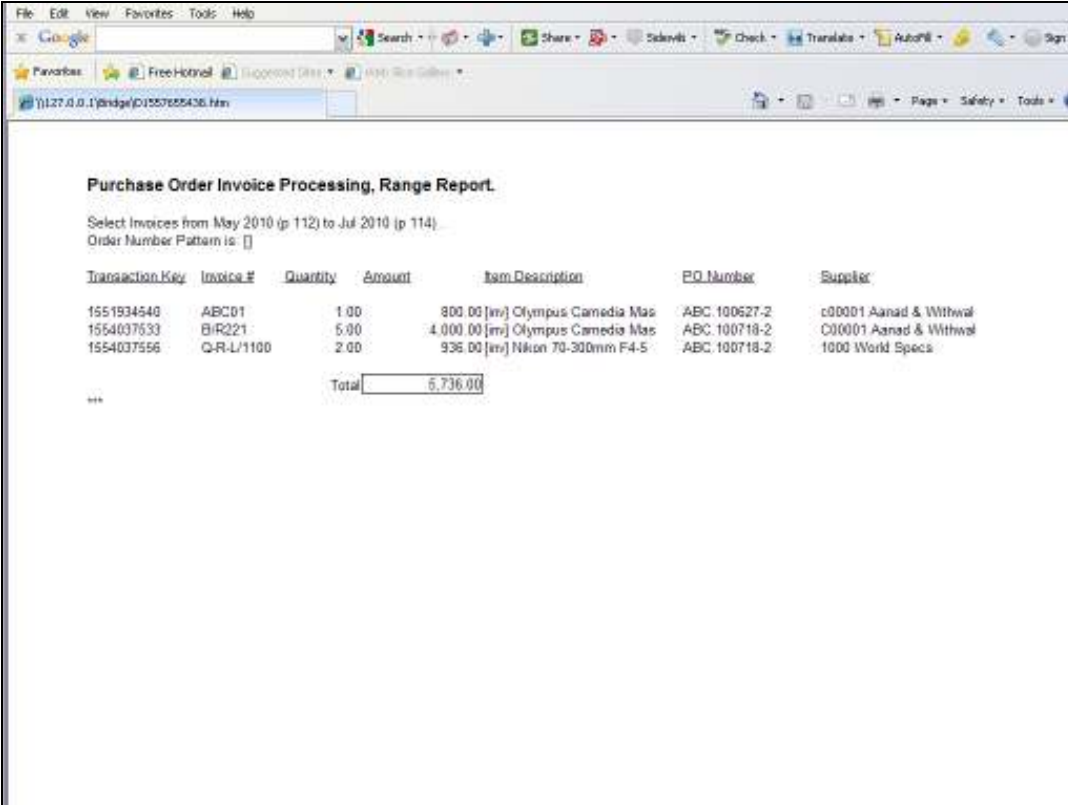


The screenshot shows a web browser window with a Google search bar and various toolbars. The main content area displays a report titled 'Purchase Order Invoice Processing, Range Report'. Below the title, there is a selection range for invoices from May 2010 to July 2010, and a field for the Order Number Pattern. The report contains a table with columns: Transaction Key, Invoice #, Quantity, Amount, Item Description, PO Number, and Supplier. The table lists three transactions and a total row. The browser's address bar shows a URL starting with '1127.0.0.1'.

Transaction Key	Invoice #	Quantity	Amount	Item Description	PO Number	Supplier
1551934540	ABC01	1.00	800.00	[m] Olympus Camera Mas	ABC.100627-2	C00001 Aanad & Withwal
1554037533	BIR221	5.00	4,000.00	[m] Olympus Camera Mas	ABC.100718-2	C00001 Aanad & Withwal
1554037556	Q-R-L/1100	2.00	936.00	[m] Nikon 70-300mm F4-5	ABC.100718-2	1000 World Specs
		Total	5,736.00			

Slide 3

Slide notes:



The screenshot shows a web browser window with a Google search bar and various toolbars. The main content area displays a report titled 'Purchase Order Invoice Processing, Range Report'. Below the title, there is a selection range for invoices from May 2010 to July 2010. A table follows with columns for Transaction Key, Invoice #, Quantity, Amount, Item Description, PO Number, and Supplier. The table lists three items: an Olympus camera, another Olympus camera, and a Nikon lens. A total amount of 6,736.00 is shown at the bottom of the table.

**Purchase Order Invoice Processing, Range Report.**

Select Invoices from May 2010 (p 112) to Jul 2010 (p 114)  
Order Number Pattern is: []

Transaction Key	Invoice #	Quantity	Amount	Item Description	PO Number	Supplier
1551934540	ABC01	1.00	800.00	[inv] Olympus Camera Mas	ABC 100627-2	C00001 Aanad & Withwal
1554037533	BiR221	5.00	4,000.00	[inv] Olympus Camera Mas	ABC 100718-2	C00001 Aanad & Withwal
1554037556	Q-R-L/1100	2.00	936.00	[inv] Nikon 70-300mm F4-5	ABC 100718-2	1000 World Specs
			Total	6,736.00		

Slide 4

Slide notes:



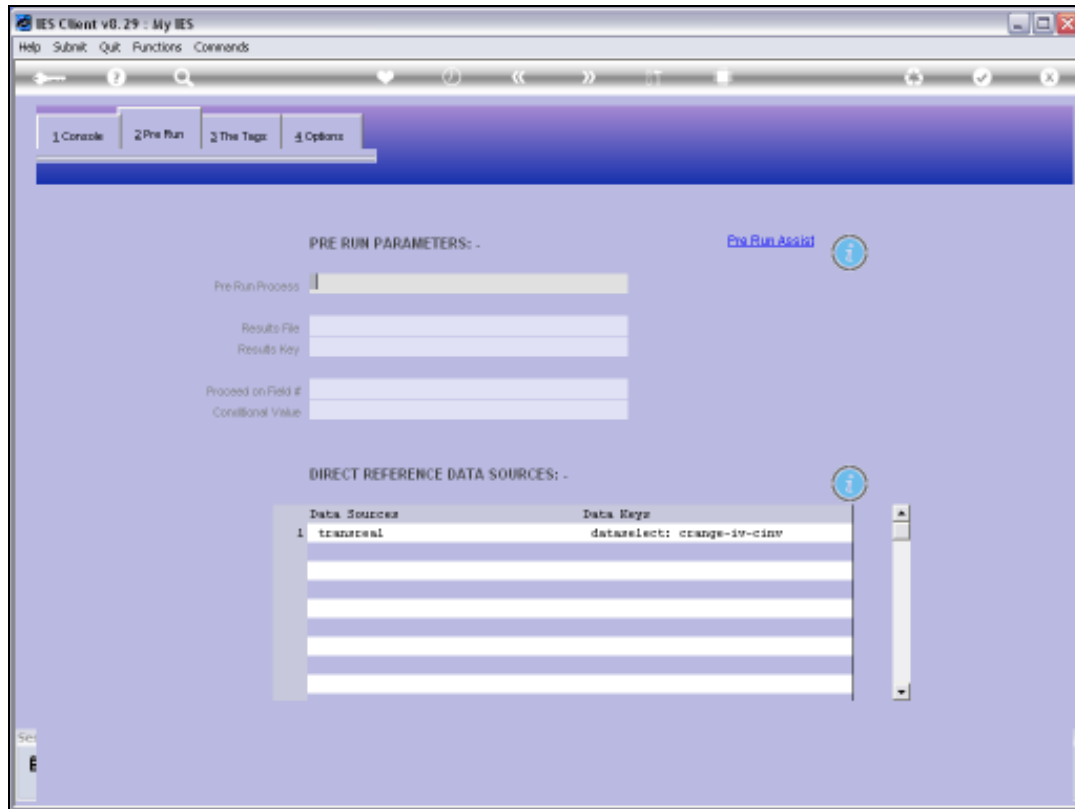
Slide 5

Slide notes: We are using one of the system example Reports for this purpose.



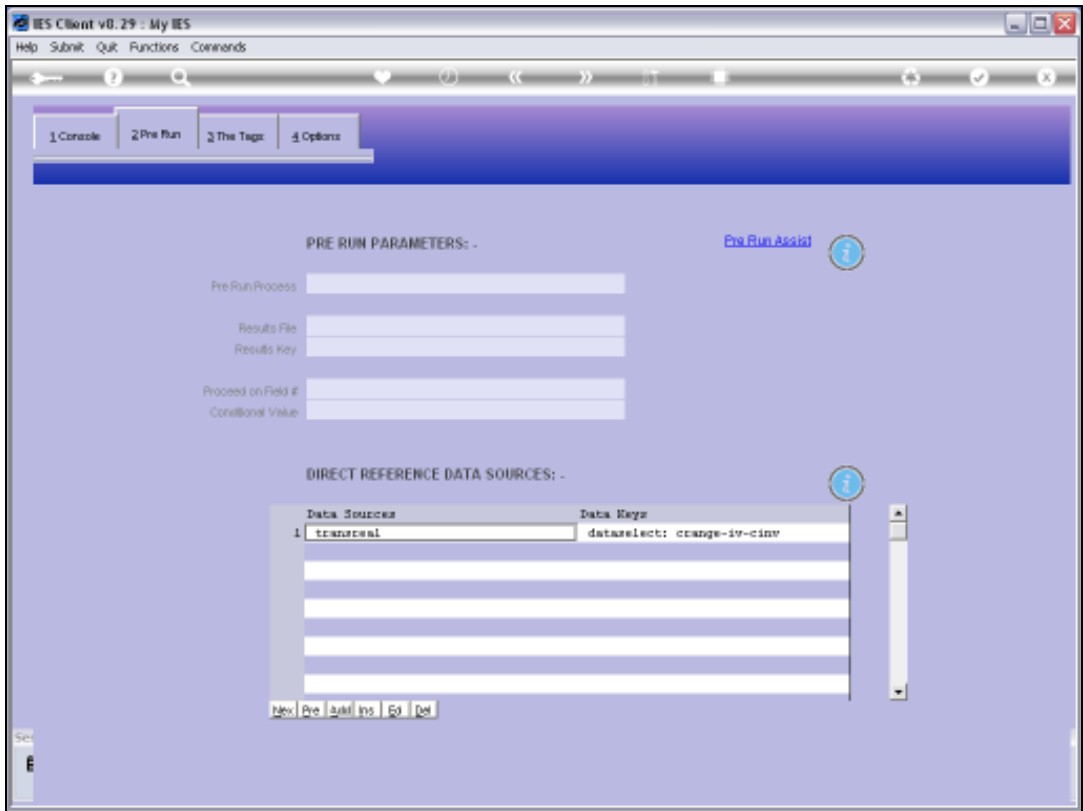
Slide 6

Slide notes:



## Slide 7

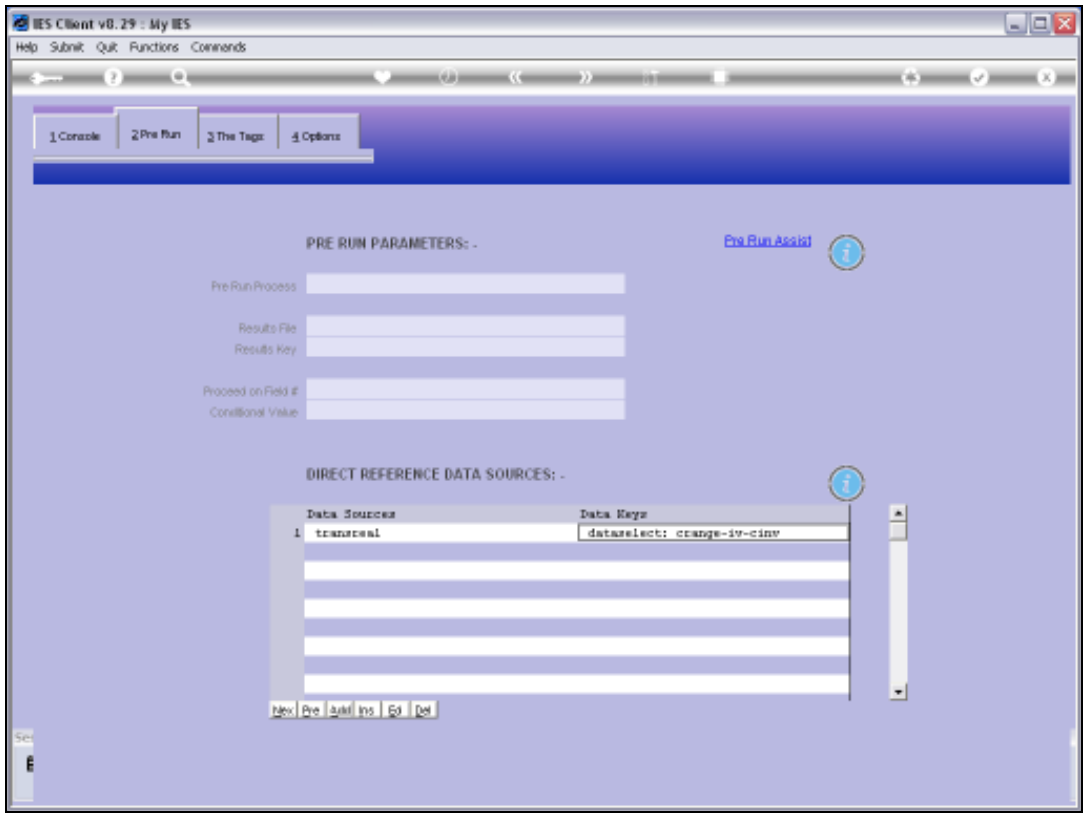
Slide notes: For this type of Unit, there is always a Data Source listed. In this case, a Data Selector is used to select the iterative Keys from this Data Source.



Slide 8

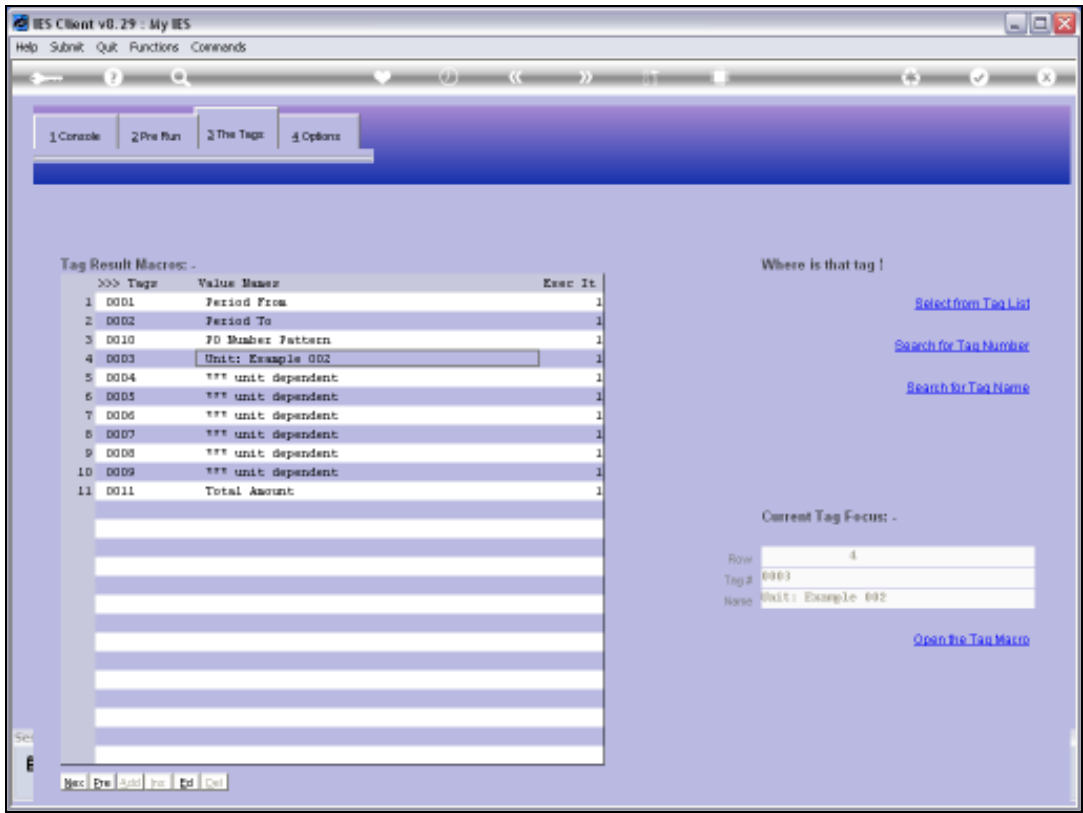
Slide notes:



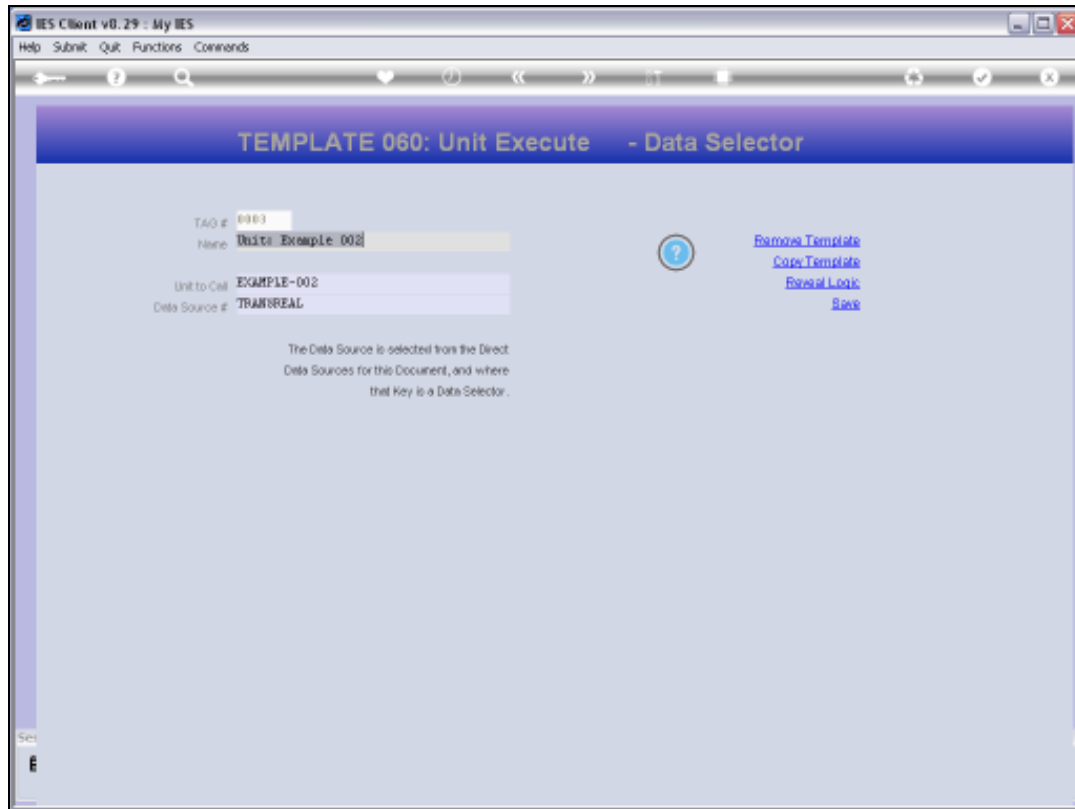


Slide 9

Slide notes:

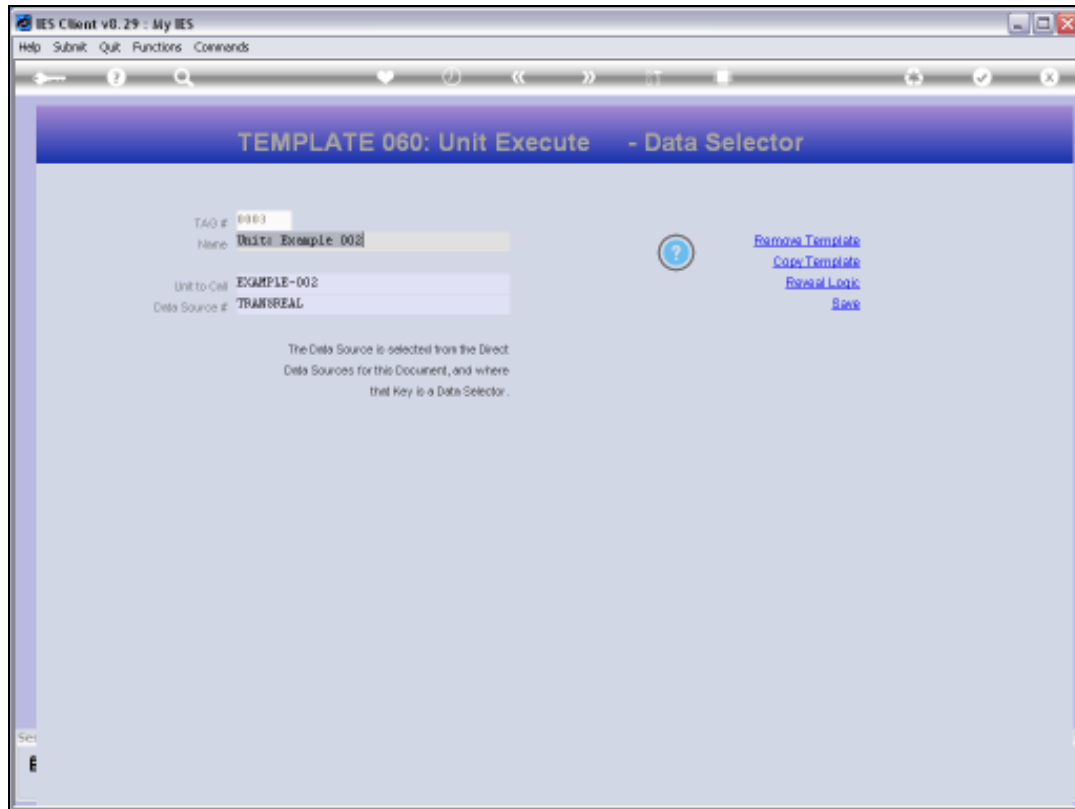


Slide 10  
Slide notes: Here is the Unit in the main Document.



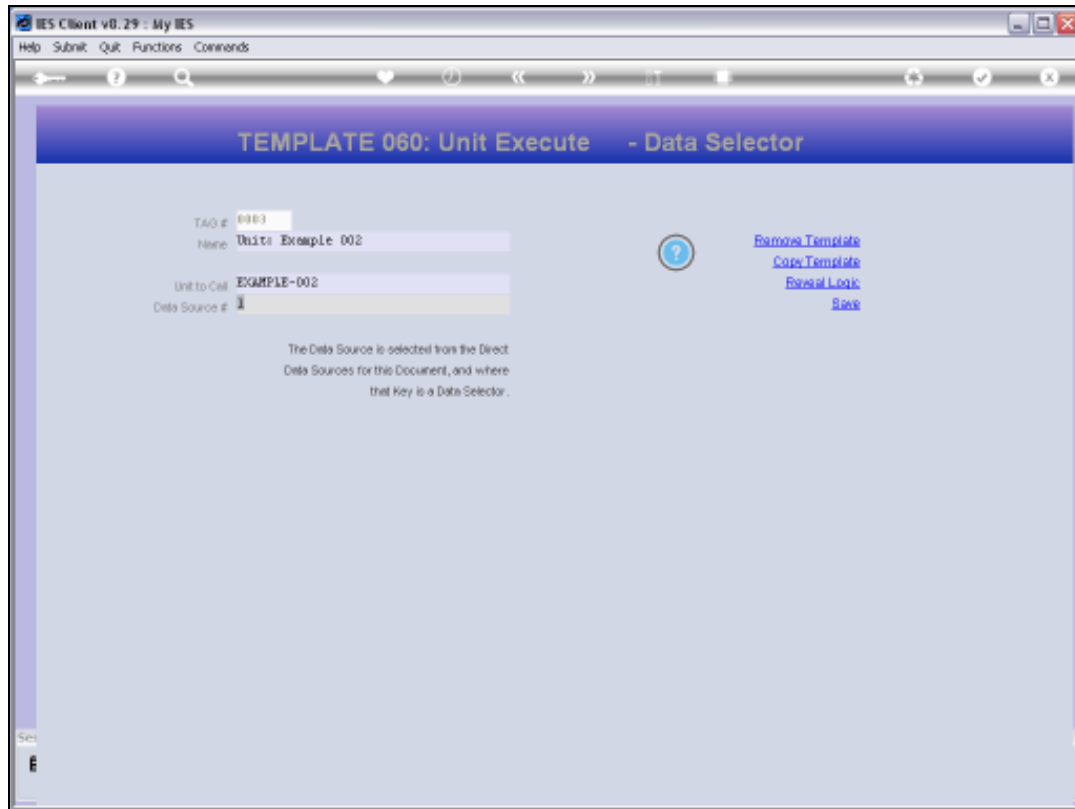
Slide 11

Slide notes: Apart from the Unit to Call, we also specify the Data Source in the Unit Call.



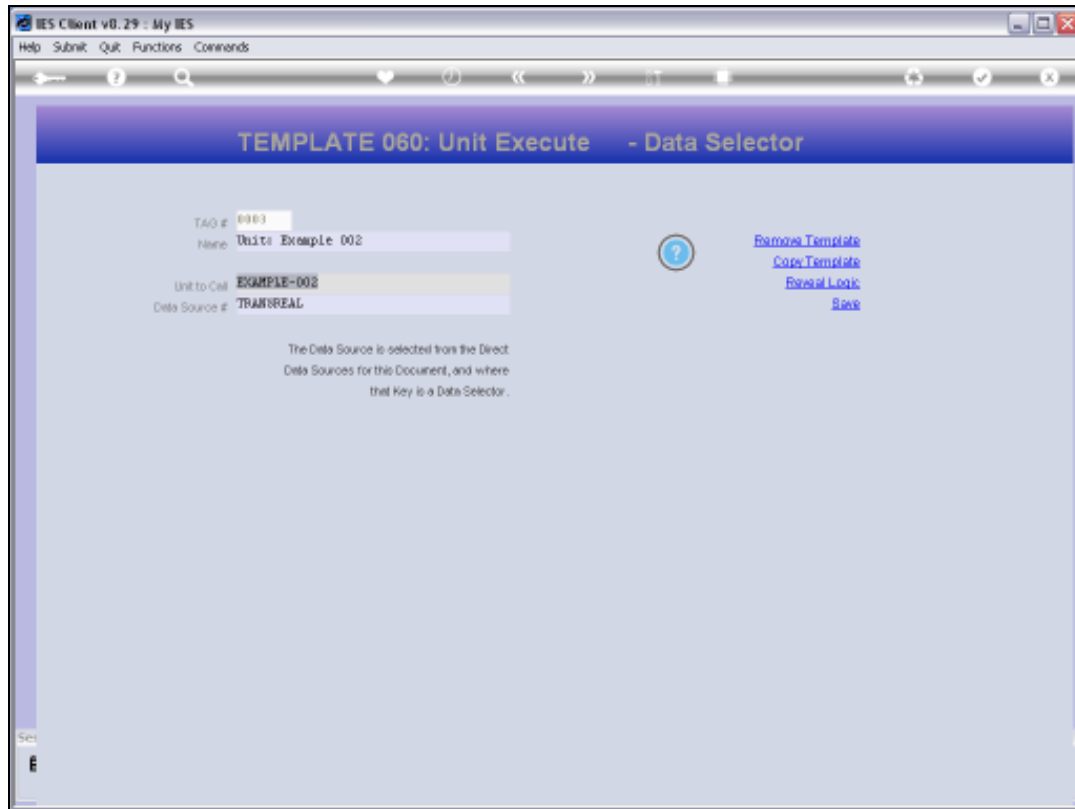
Slide 12

Slide notes:



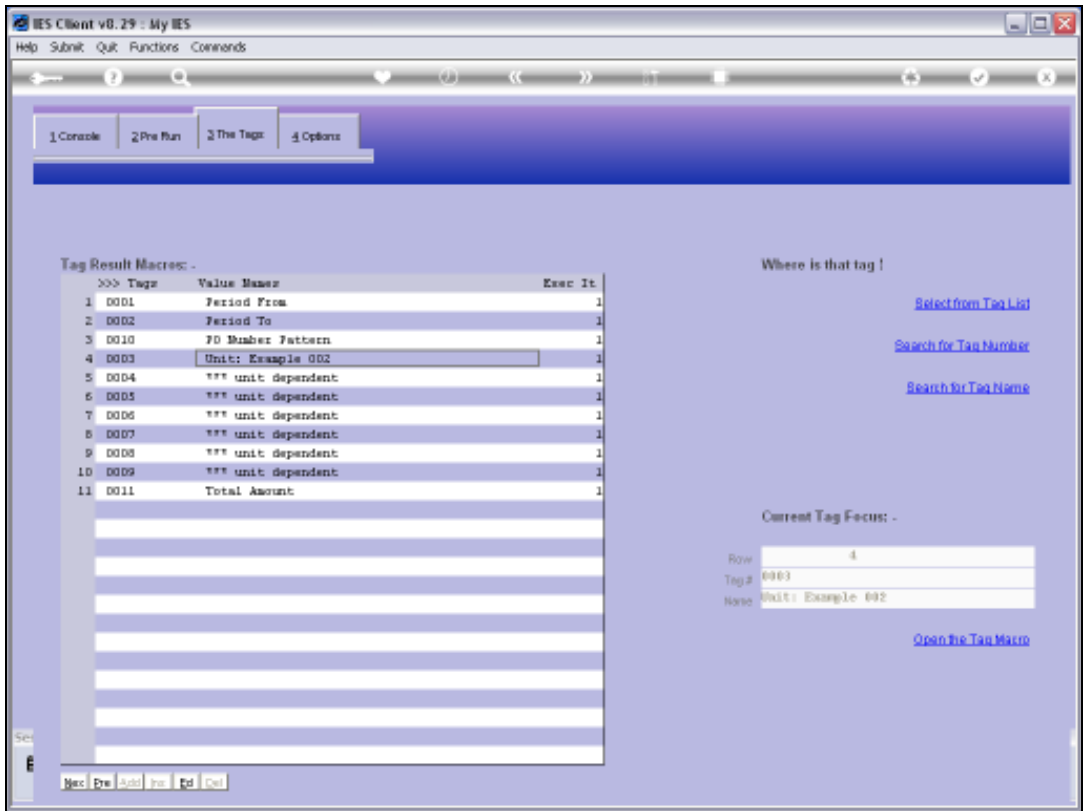
Slide 13

Slide notes:

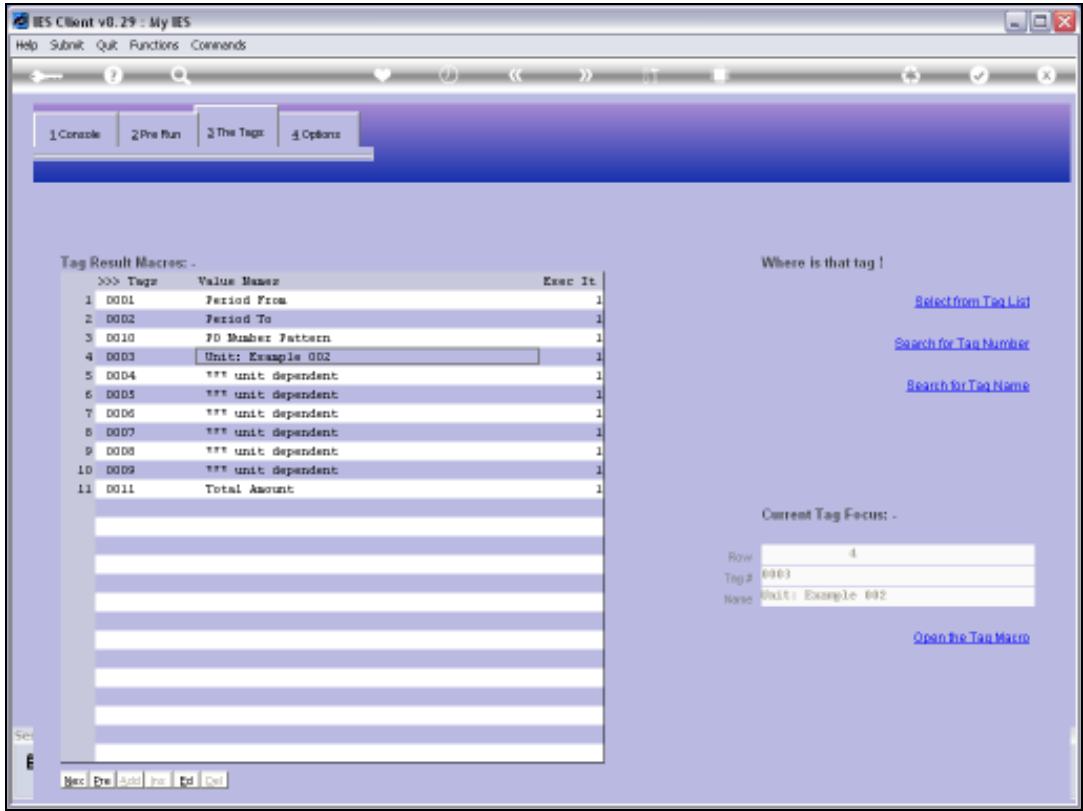


Slide 14

Slide notes:



Slide 15  
Slide notes:



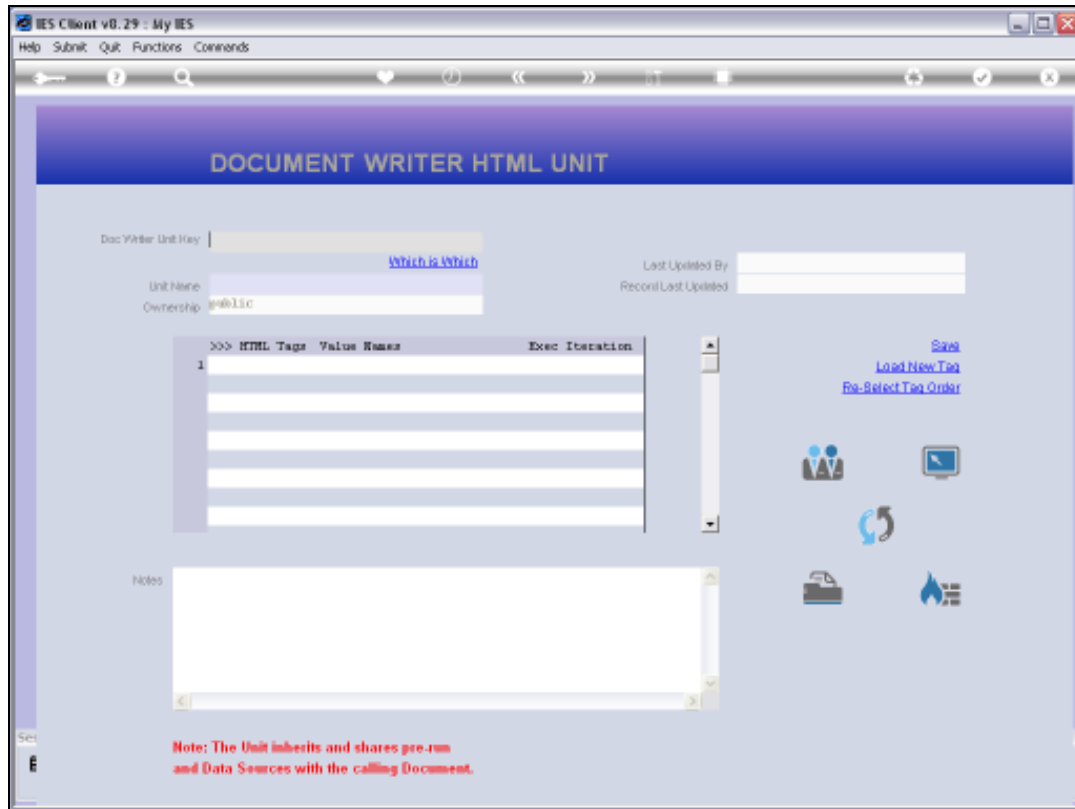
Slide 16  
Slide notes:





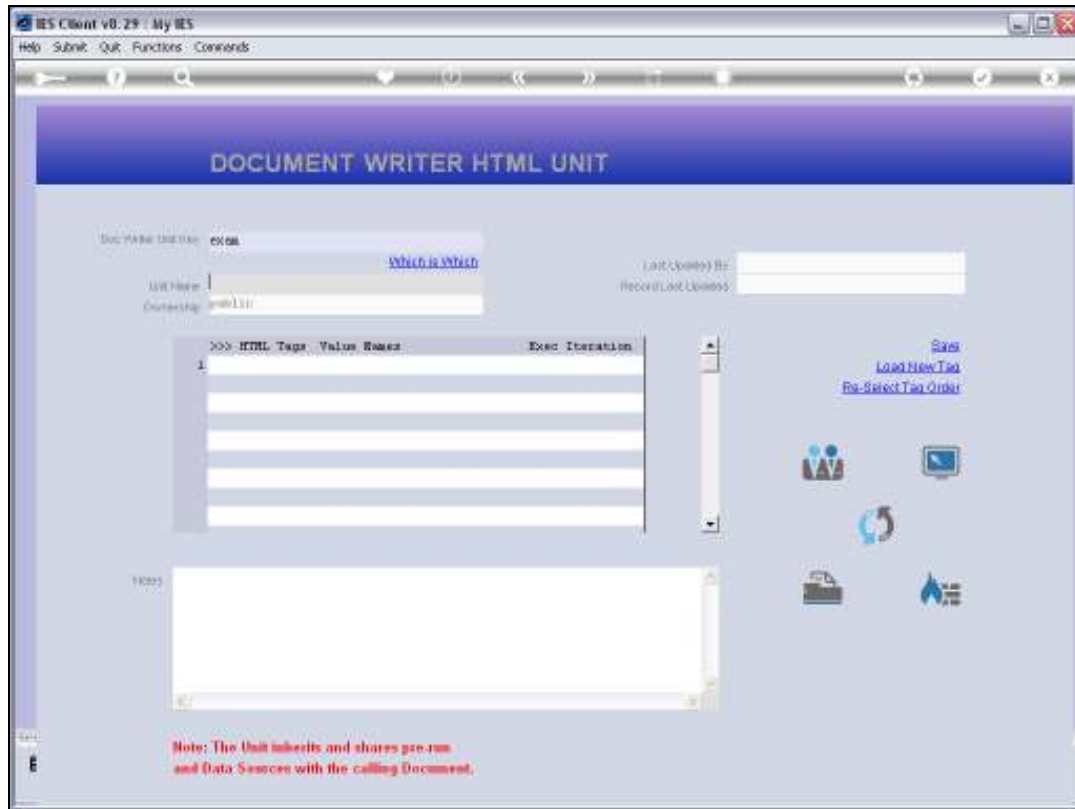
Slide 17

Slide notes:



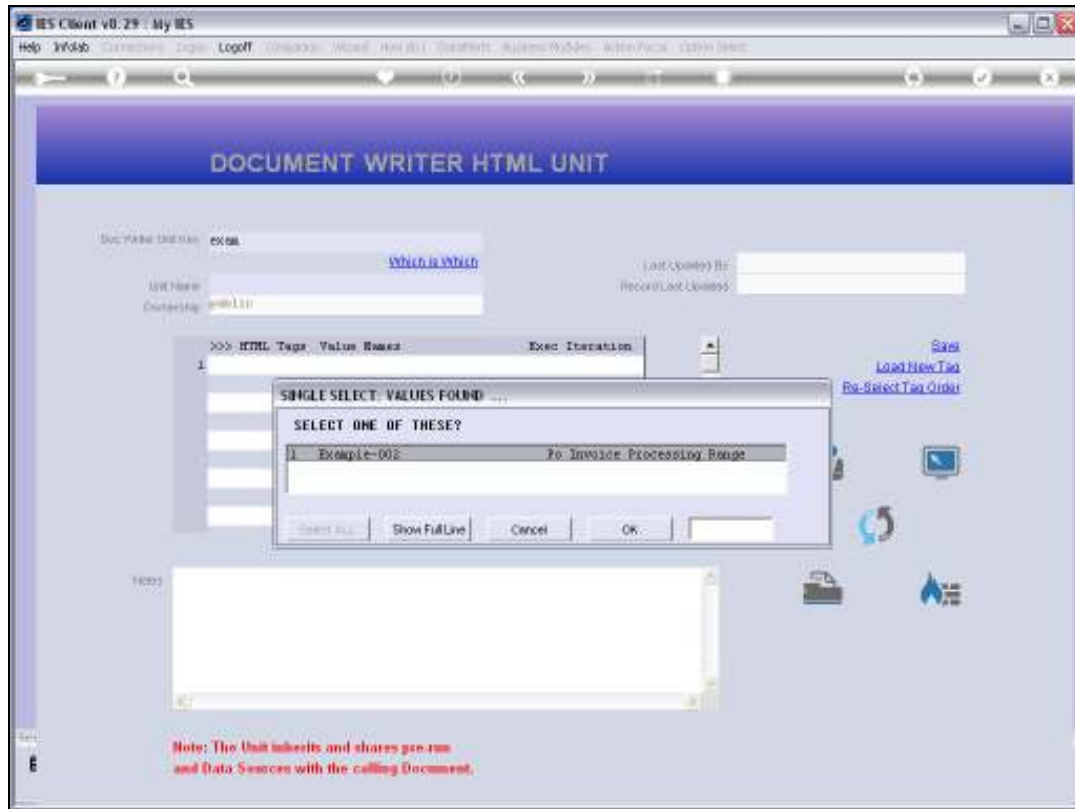
Slide 18

Slide notes:



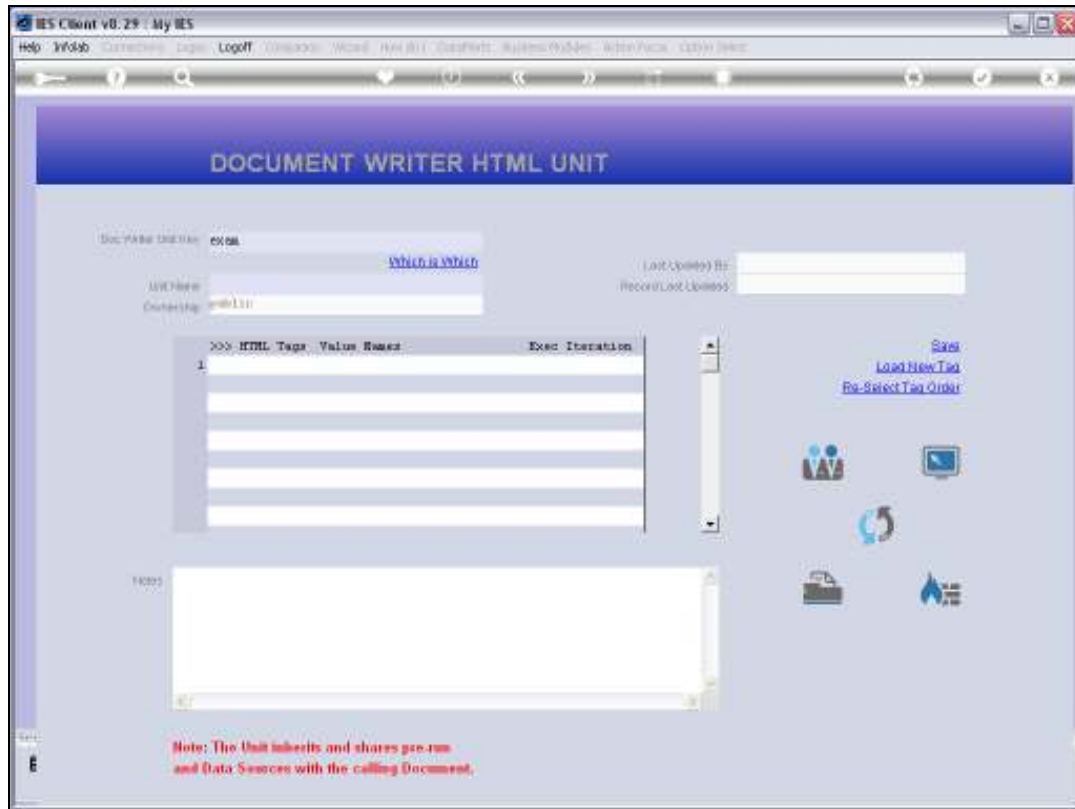
Slide 19

Slide notes:



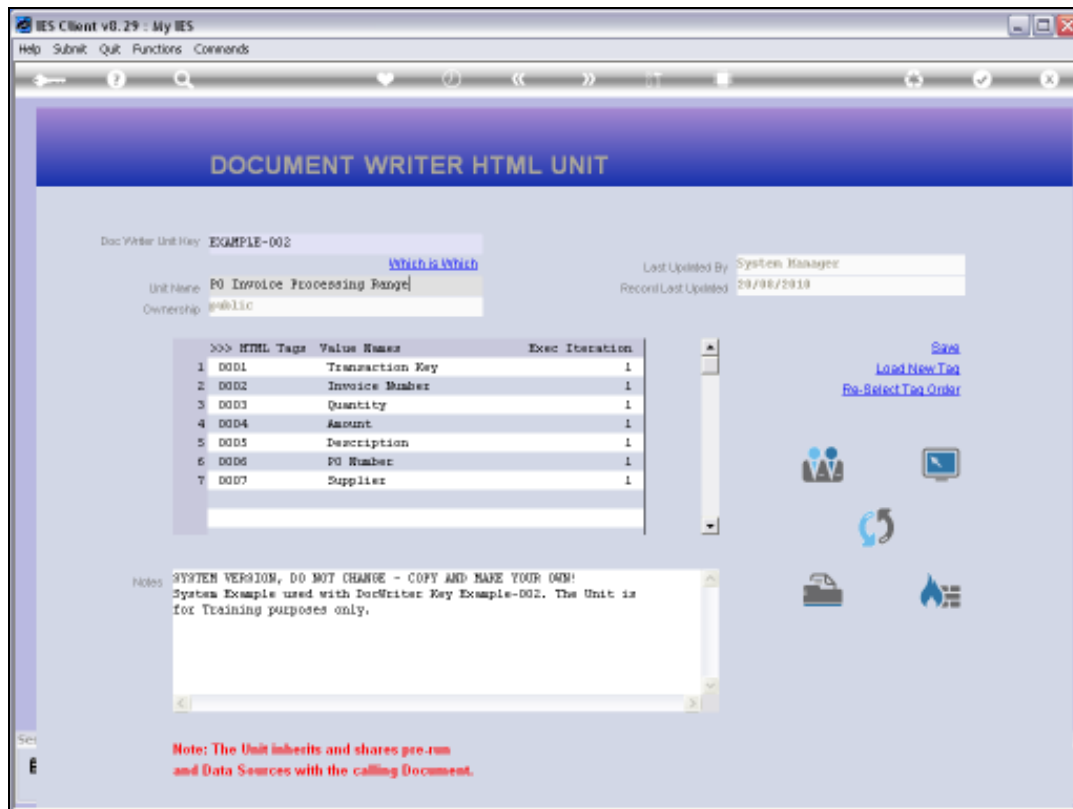
Slide 20

Slide notes:



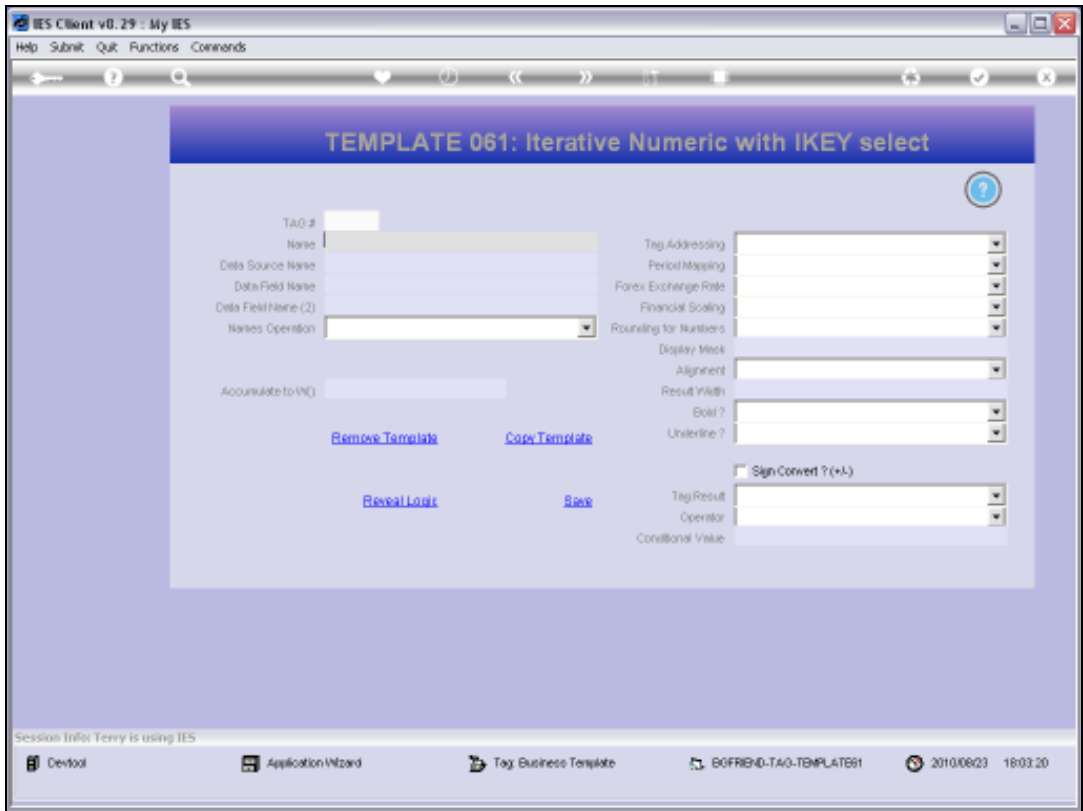
Slide 21

Slide notes:



Slide 22

Slide notes: This is our Unit. Let us look at the Quantity Tag.



Slide 23  
Slide notes:

The screenshot shows the IES Client v8.29 interface. The main window is titled "TEMPLATE 061: Iterative Numeric with IKEY select". The interface is divided into several sections for configuring a tag template.

**Left Section:**

- Tag #
- Name
- Data Source Name
- Data Field Name
- Data Field Name (2)
- Names Operation
- Accumulate to VNC
- [Remove Template](#)
- [Copy Template](#)
- [Reveal Logic](#)
- [Save](#)

**Right Section:**

- Tag Addressing
- Period Mapping
- Forex Exchange Rate
- Financial Scaling
- Rounding for Numbers
- Display Mask
- Alignment
- Result Width
- Bold?
- Underline?
- ☐ Sign Convert (+/-)
- Tag Result
- Operator
- Conditional Value

**Bottom Status Bar:**

Session Info: Terry is using IES

Desktop Application Wizard Tag Business Template BOFRIND-TAG-TEMPLATE01 2010/09/23 18:03:20

Slide 24

Slide notes: It is using the 'Iterative Numeric with iKey Select' Template.



The screenshot shows the IES Client v8.29 interface. The title bar reads "IES Client v8.29 : My IES". The menu bar includes "Help", "Submit", "Quit", "Functions", and "Comments". The toolbar contains icons for back, forward, search, and other navigation functions. The main window displays "TEMPLATE 061: Iterative Numeric with IKEY select".

The configuration fields are as follows:

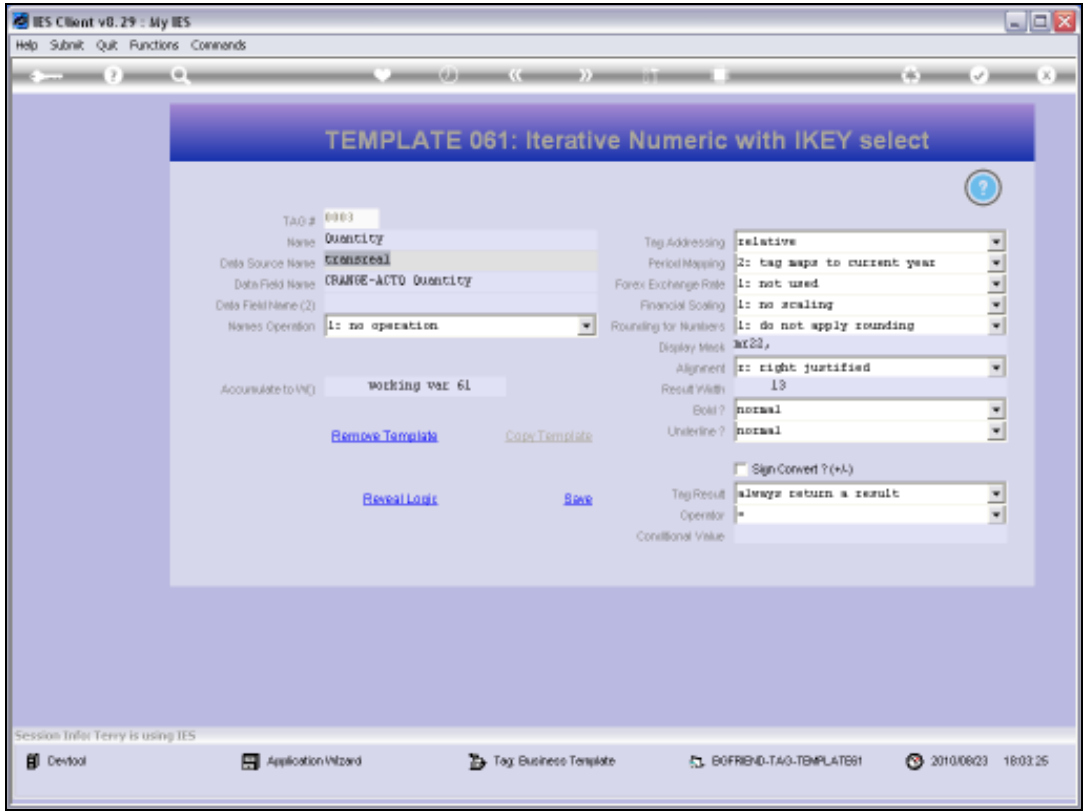
- Tag #: 0003
- Name: Quantity
- Data Source Name: TRANSREAL TRANSREAL
- Data Field Name: CRANGE-ACTO Quantity
- Data Field Name (2):
- Names Operation: 1: no operation
- Accumulate to VNC: working var 61
- Tag Addressing: relative
- Period Mapping: 2: tag maps to current year
- Forex Exchange Rate: 1: not used
- Financial Scaling: 1: no scaling
- Rounding for Numbers: 1: do not apply rounding
- Display Mask: M22,
- Alignment: 1: right justified
- Result Width: 13
- Bold?: normal
- Underline?: normal
- Sign Convent ? (+/-):
- Tag Result: always return a result
- Operator: \*
- Conditional Value:

Buttons at the bottom of the configuration area include "Remove Template", "Copy Template", "Reveal Logic", and "Save".

The status bar at the bottom shows "Session Info: Terry is using IES" and a taskbar with icons for "Devtool", "Application Wizard", "Tag Business Template", and "BOFRIND-TAG-TEMPLATE01". The date and time are "2010/09/23 18:03:23".

Slide 25

Slide notes: With this Template, we have to specify the Data Source, and we select at least one Data Name.



Slide 26  
Slide notes:

IES Client v8.29 : My IES

Help Submit Quit Functions Commands

TEMPLATE 061: Iterative Numeric with IKEY select

Tag # 0003

Name CUMULCY

Data Source Name TRANSREAL TRANSREAL

Data Field Name CRANE-ACTO

Data Field Name (2)

Names Operation 1: no operation

Accumulate to VNC working var 61

[Remove Template](#) [Copy Template](#)

[Reveal Logic](#) [Save](#)

Tag Addressing relative

Period Mapping 2: tag maps to current year

Forex Exchange Rate 1: not used

Financial Scaling 1: no scaling

Rounding for Numbers 1: do not apply rounding

Display Mask M22,

Alignment 1: right justified

Result Width 13

Bold? normal

Underline? normal

☐ Sign Convent ? (+/-)

Tag Result always return a result

Operator \*

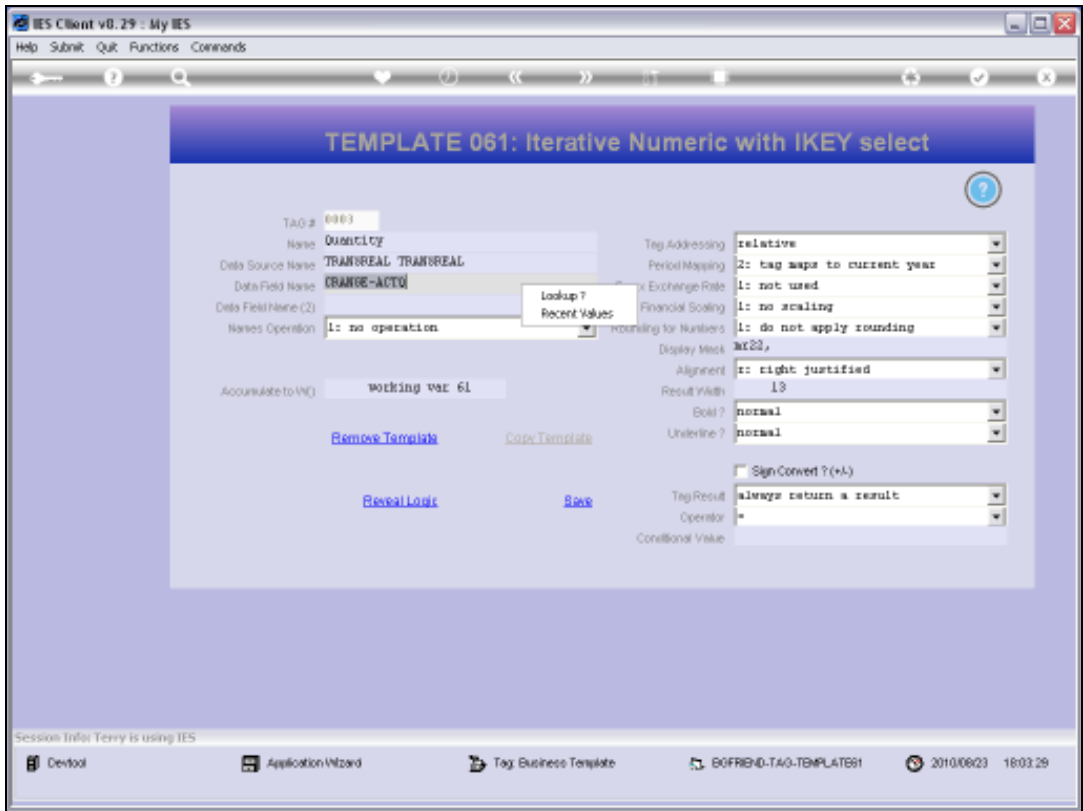
Conditional Value

Session Info: Terry is using IES

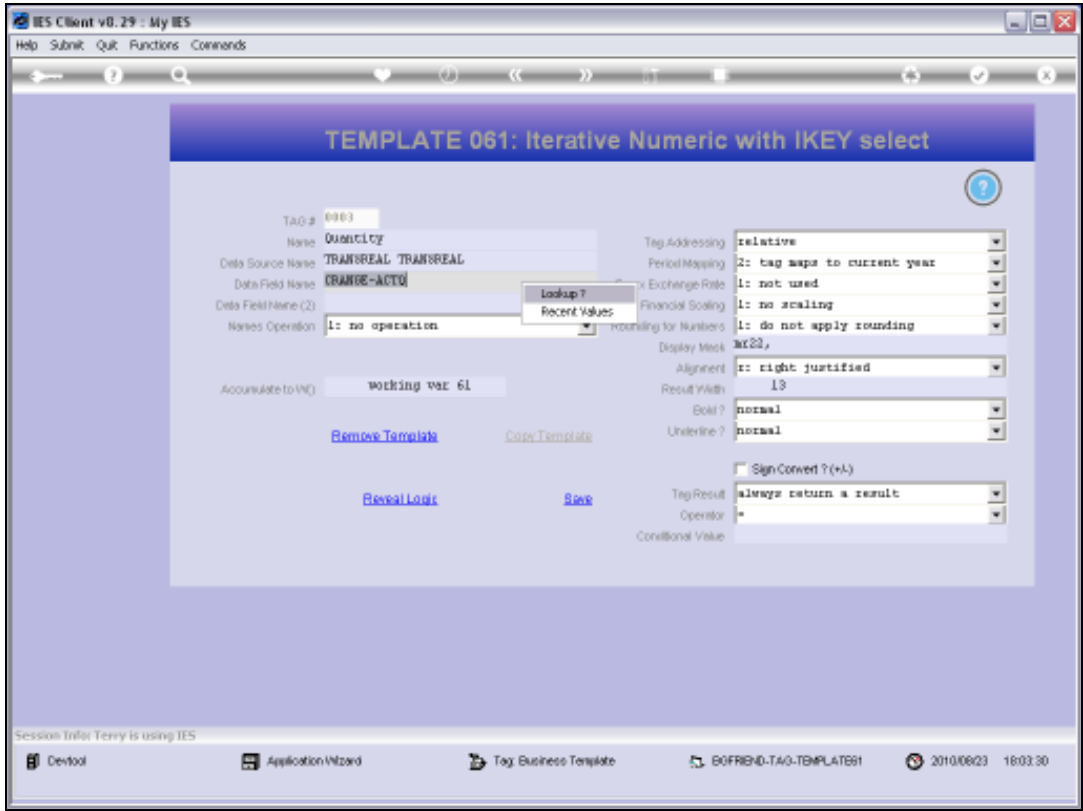
Desktop Application Wizard Tag Business Template BOFRIND-TAG-TEMPLATE01 2010/09/23 18:03:27

Slide 27

Slide notes:

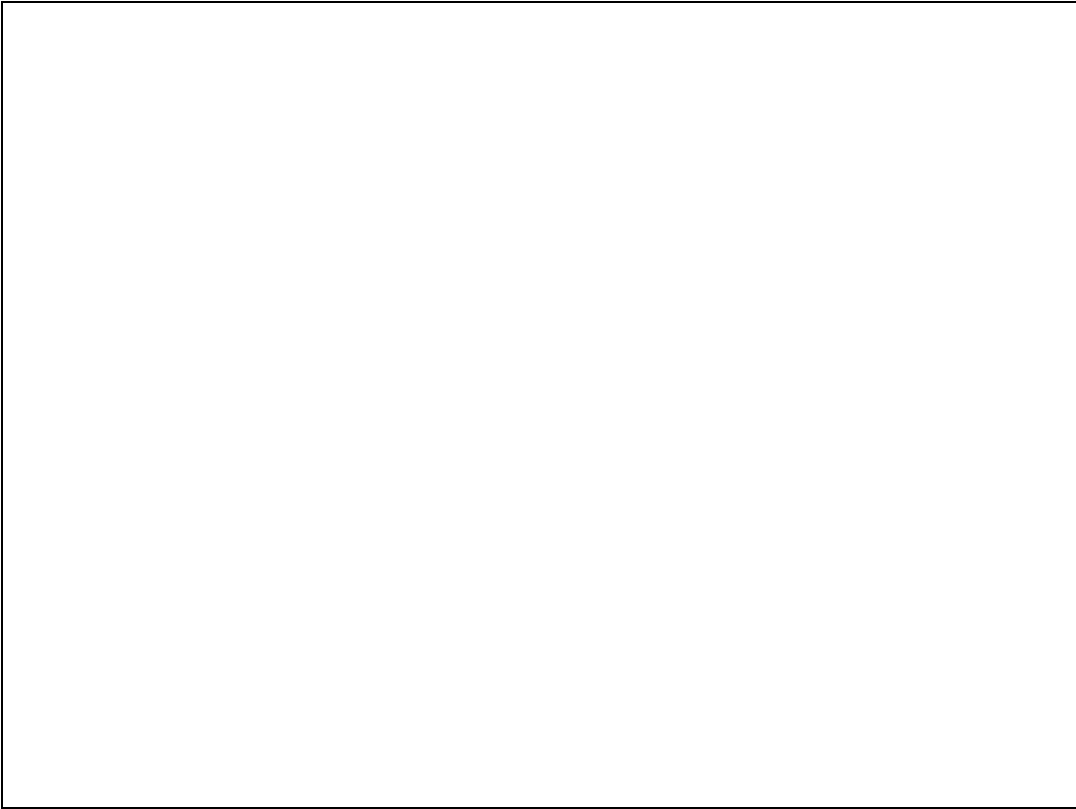


Slide 28  
Slide notes:



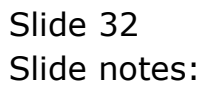
Slide 29  
Slide notes:





Slide 31

Slide notes:





The screenshot shows the IES Client v8.29 interface. The title bar reads "IES Client v8.29 : My IES". The menu bar includes "Help", "Submit", "Quit", "Functions", and "Comments". The toolbar contains icons for back, forward, search, and other navigation functions. The main window displays "TEMPLATE 061: Iterative Numeric with IKEY select".

The configuration fields are as follows:

- Tag #: 0003
- Name: Quantity
- Data Source Name: TRANREAL\_TRANREAL
- Data Field Name: CRANGE-ACTO Quantity
- Data Field Name (2):
- Names Operation: 1: no operation
- Accumulate to VNC: working var 61
- Tag Addressing: relative
- Period Mapping: 2: tag maps to current year
- Forex Exchange Rate: 1: not used
- Financial Scaling: 1: no scaling
- Rounding for Numbers: 1: do not apply rounding
- Display Mask: M22,
- Alignment: 1: right justified
- Result Width: 13
- Bold?: normal
- Underline?: normal
- Sign Convent ? (+/-):
- Tag Result: always return a result
- Operator: \*
- Conditional Value:

Buttons at the bottom of the configuration area include "Remove Template", "Copy Template", "Reveal Logic", and "Save".

The status bar at the bottom shows "Session Info: Terry is using IES" and a taskbar with icons for "Devtool", "Application Wizard", "Tag Business Template", and "BOFRIND-TAG-TEMPLATE01". The date and time are "2010/09/23 18:03:35".

## Slide 33

Slide notes: Optionally, we can also use a 2nd Data Name and an Operation to be performed with the 2 Data Name Values.

IES Client v8.29 : My IES

Help Submit Quit Functions Commands

TEMPLATE 061: Iterative Numeric with IKEY select

Tag # 0003

Name Quantity

Data Source Name TRANSREAL TRANSREAL

Data Field Name CRANGE-ACTO Quantity

Data Field Name (2)

Names Operation 1: no operation

Accumulate to VNC working var 61

[Remove Template](#) [Copy Template](#)

[Reveal Logic](#) [Save](#)

Tag Addressing relative

Period Mapping 2: tag maps to current year

Forex Exchange Rate 1: not used

Financial Scaling 1: no scaling

Rounding for Numbers 1: do not apply rounding

Display Mask M22,

Alignment 1: right justified

Result Width 13

Bold? normal

Underline? normal

☐ Sign Convent ? (+/-)

Tag Result always return a result

Operator \*

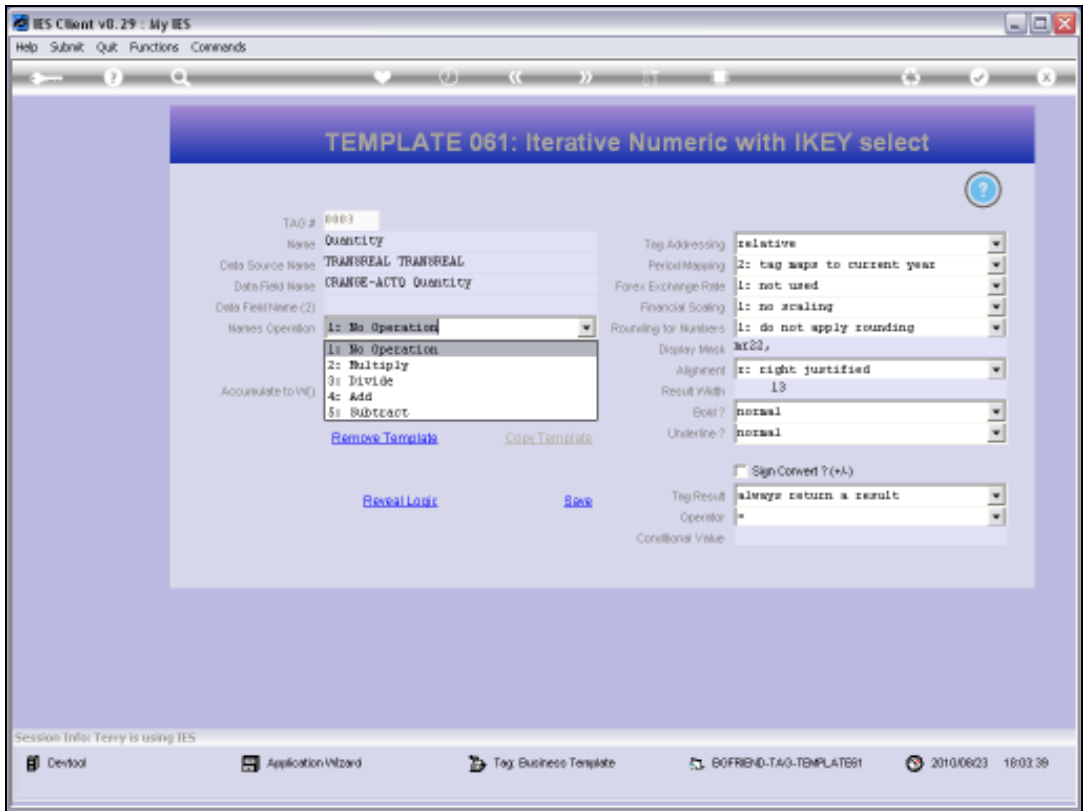
Conditional Value

Session Info: Terry is using IES

Desktop Application Wizard Tag Business Template BOFRIND-TAG-TEMPLATE01 2010/09/23 18:03:37

Slide 34

Slide notes:



Slide 35  
Slide notes:

IES Client v8.29 : My IES

Help Submit Quit Functions Comments

TEMPLATE 061: Iterative Numeric with IKEY select

TAG # 0003

Name Quantity

Data Source Name TRANSREAL TRANSREAL

Data Field Name CRANGE-ACTO Quantity

Data Field Name (2)

Names Operation 1: No Operation

Accumulate to VNC working var 61

[Remove Template](#) [Copy Template](#)

[Reveal Logic](#) [Save](#)

Tag Addressing relative

Period Mapping 2: tag maps to current year

Forex Exchange Rate 1: not used

Financial Scaling 1: no scaling

Rounding for Numbers 1: do not apply rounding

Display Mask M22,

Alignment 1: right justified

Result Width 13

Bold? normal

Underline? normal

☐ Sign Convent (+/-)

Tag Result always return a result

Operator \*

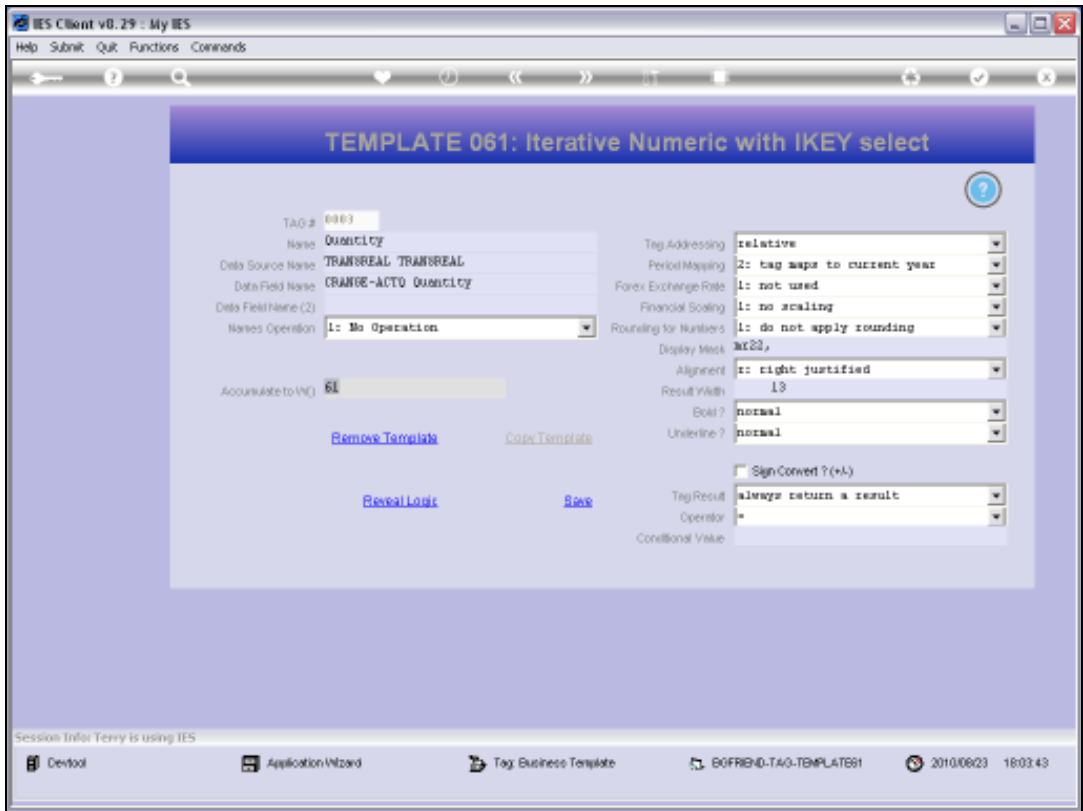
Conditional Value

Session Info: Terry is using IES

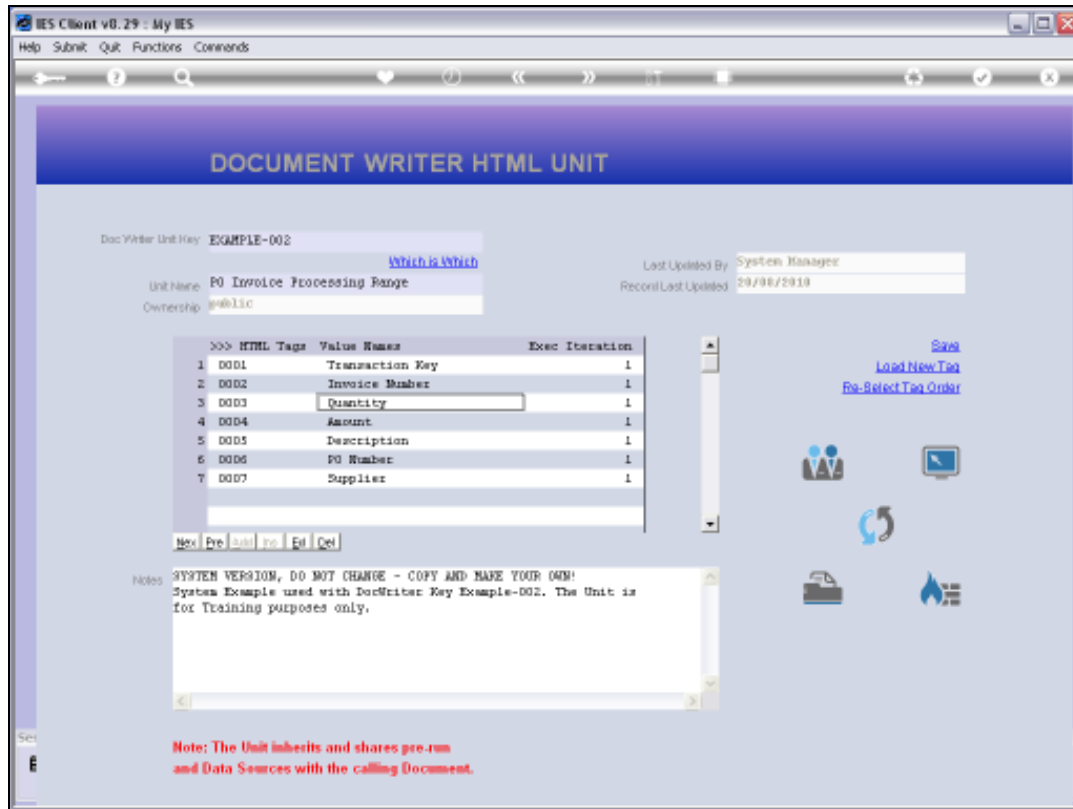
Desktop Application Wizard Tag Business Template BOFRIND-TAG-TEMPLATE01 2010/09/23 18:03:41

## Slide 36

Slide notes: With Numeric Values in Units, we always accumulate to an Accumulator from where we can get the Total for the Column in the Main Document.

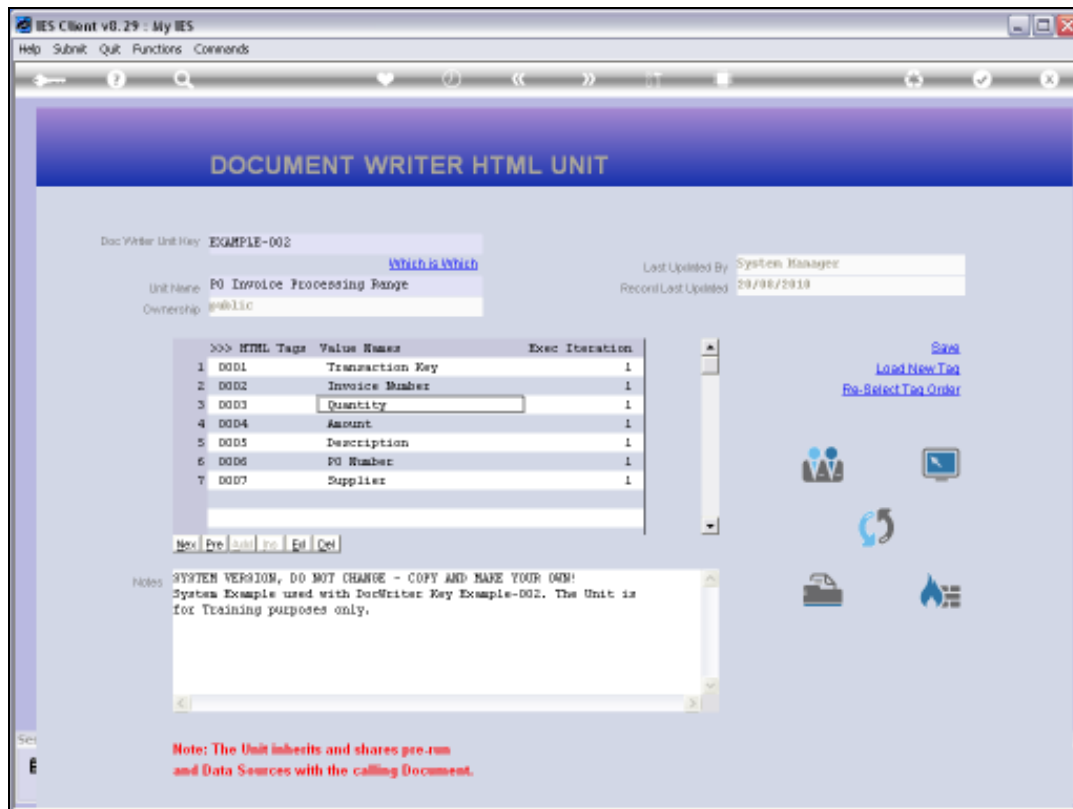


Slide 37  
Slide notes:



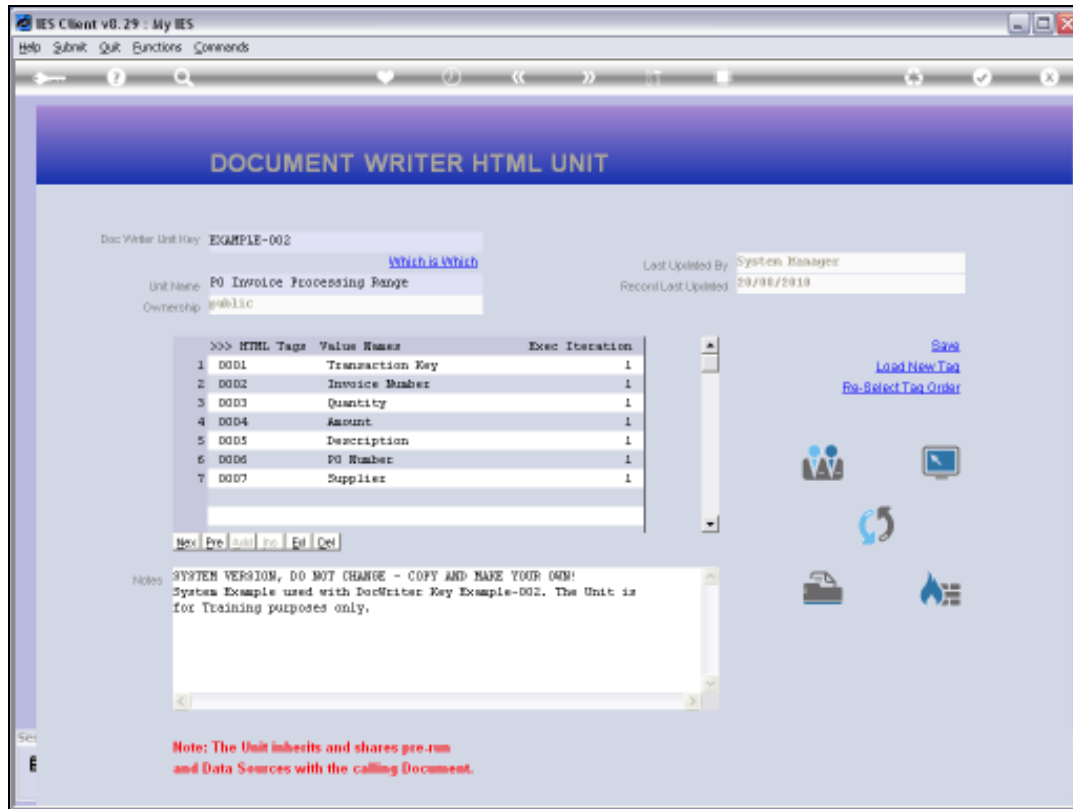
Slide 38

Slide notes:



Slide 39

Slide notes: The Amount Column in this Unit works the same way, and just uses a different Data Name.



Slide 40

Slide notes:



IES Client v8.29 : My IES

Help Submit Quit Functions Commands

TEMPLATE 061: Iterative Numeric with IKEY select

Tag # 0000

Name Amount

Data Source Name TRANSREAL TRANSREAL

Data Field Name orange-act Amount

Data Field Name (2)

Names Operation 1: no operation

Accumulate to VNC working var 62

[Remove Template](#) [Copy Template](#)

[Reveal Logic](#) [Save](#)

Tag Addressing relative

Period Mapping 2: tag maps to current year

Forex Exchange Rate 1: not used

Financial Scaling 1: no scaling

Rounding for Numbers 1: do not apply rounding

Display Mask M22,

Alignment 1: right justified

Result Width 21

Bold? normal

Underline? normal

☐ Sign Convent ? (+/-)

Tag Result always return a result

Operator \*

Conditional Value

Session Info: Terry is using IES

Desktop Application Wizard Tag Business Template BOFRIND-TAG-TEMPLATE01 2010/09/23 19:07:56

Slide 41

Slide notes:

The screenshot shows the IES Client v8.29 interface. The main window is titled "TEMPLATE 061: Iterative Numeric with IKEY select". The interface is divided into several sections for configuring a template.

**Left Section:**

- Tag #
- Name
- Data Source Name
- Data Field Name
- Data Field Name (2)
- Names Operation
- Accumulate to VNC
- [Remove Template](#)
- [Copy Template](#)
- [Reveal Logic](#)
- [Save](#)

**Right Section:**

- Tag Addressing
- Period Mapping
- Forex Exchange Rate
- Financial Scaling
- Rounding for Numbers
- Display Mask
- Alignment
- Result Width
- Bold?
- Underline?
- ☐ Sign Convent ? (+/-)
- Tag Result
- Operator
- Conditional Value

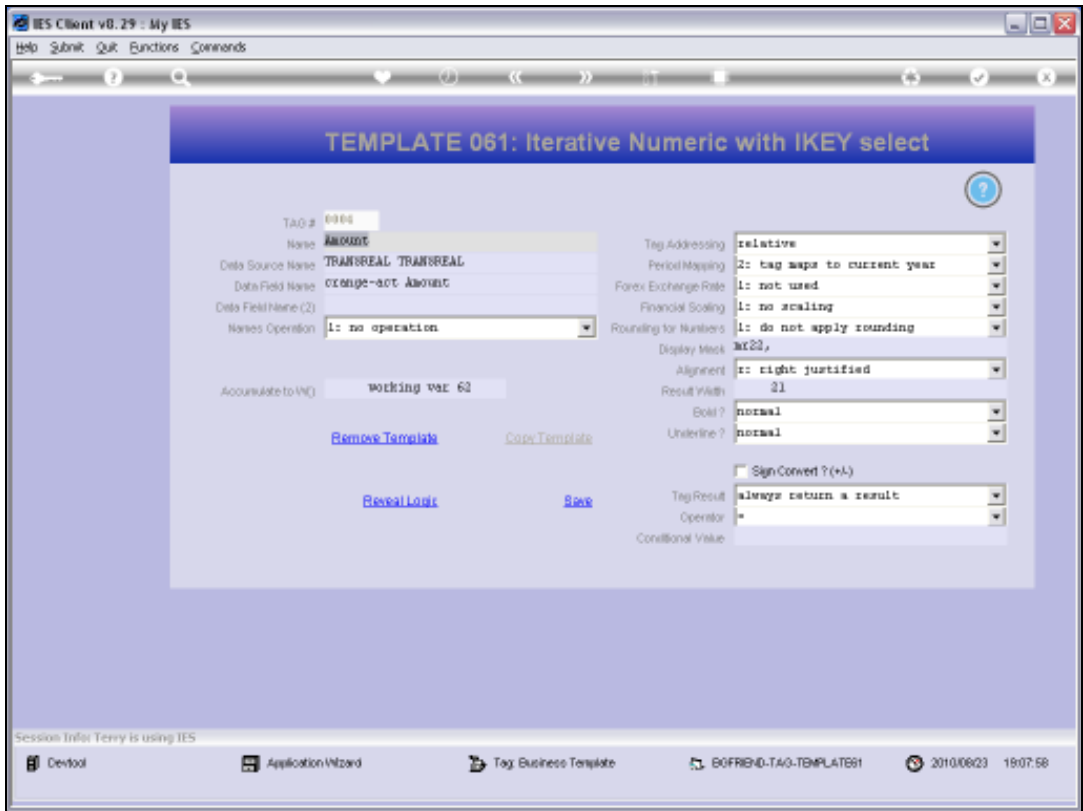
**Bottom Section:**

Session Info: Terry is using IES

Desktop Application Wizard Tag Business Template BOFRIND-TAG-TEMPLATE01 2010/09/23 19:07:56

Slide 42

Slide notes: This Template is always used with a Unit based on iKeys.



Slide 43  
Slide notes: