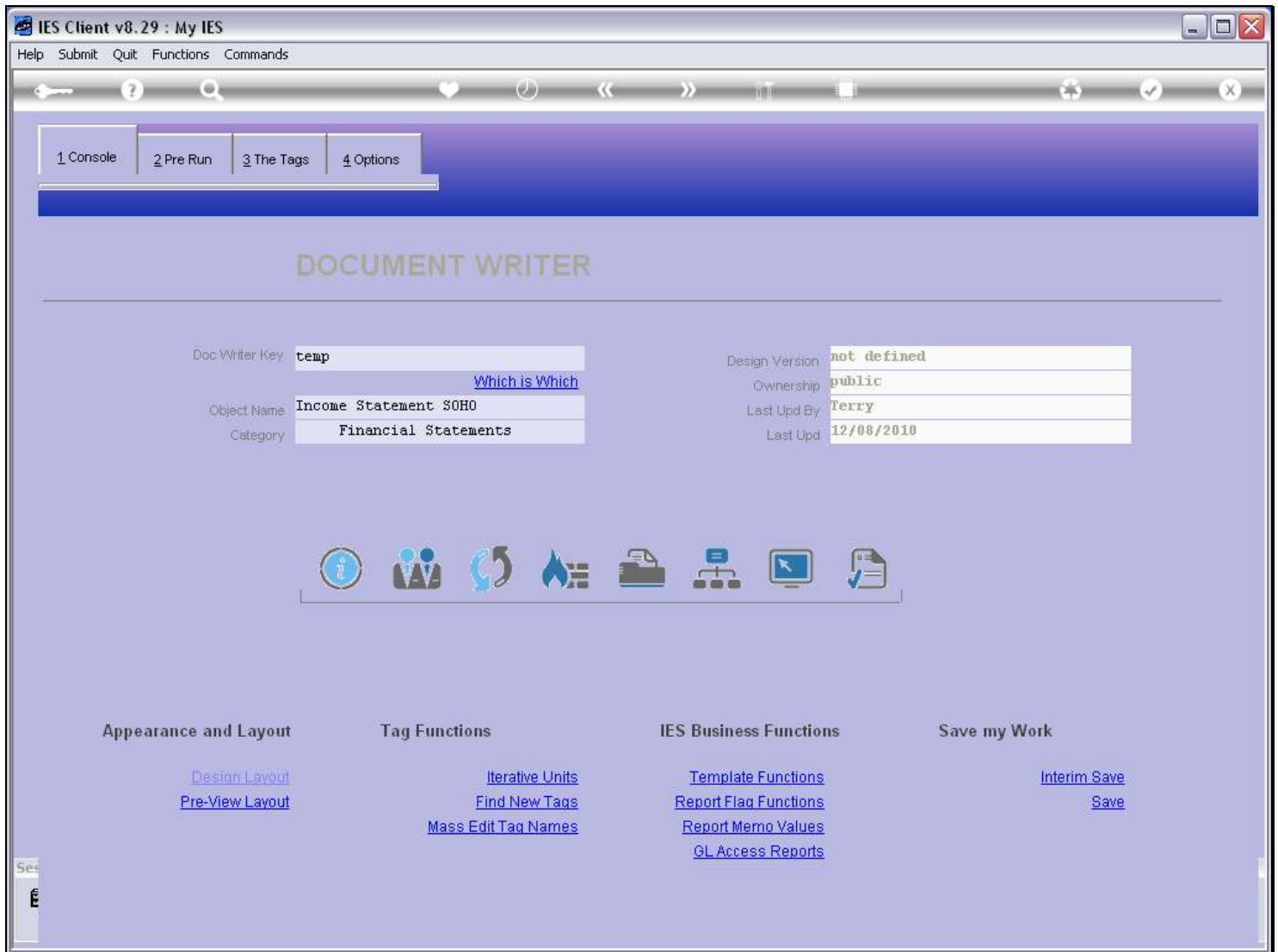


## Slide 1 - Slide 1



## Slide notes

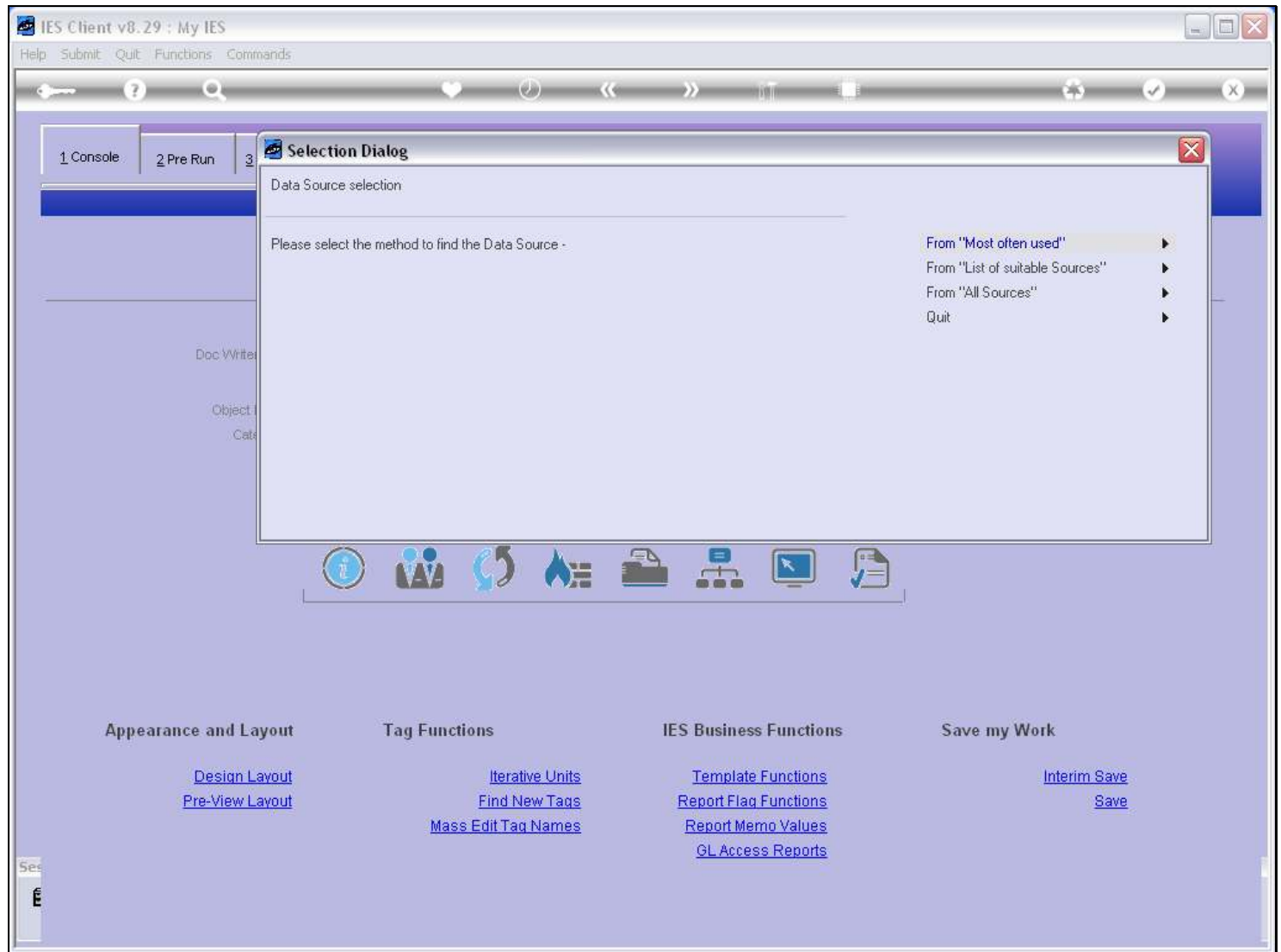
We will now look at DocWriter's functional link to the IES Metadata, and how we can use it in our Report Writing.

## Slide 2 - Slide 2



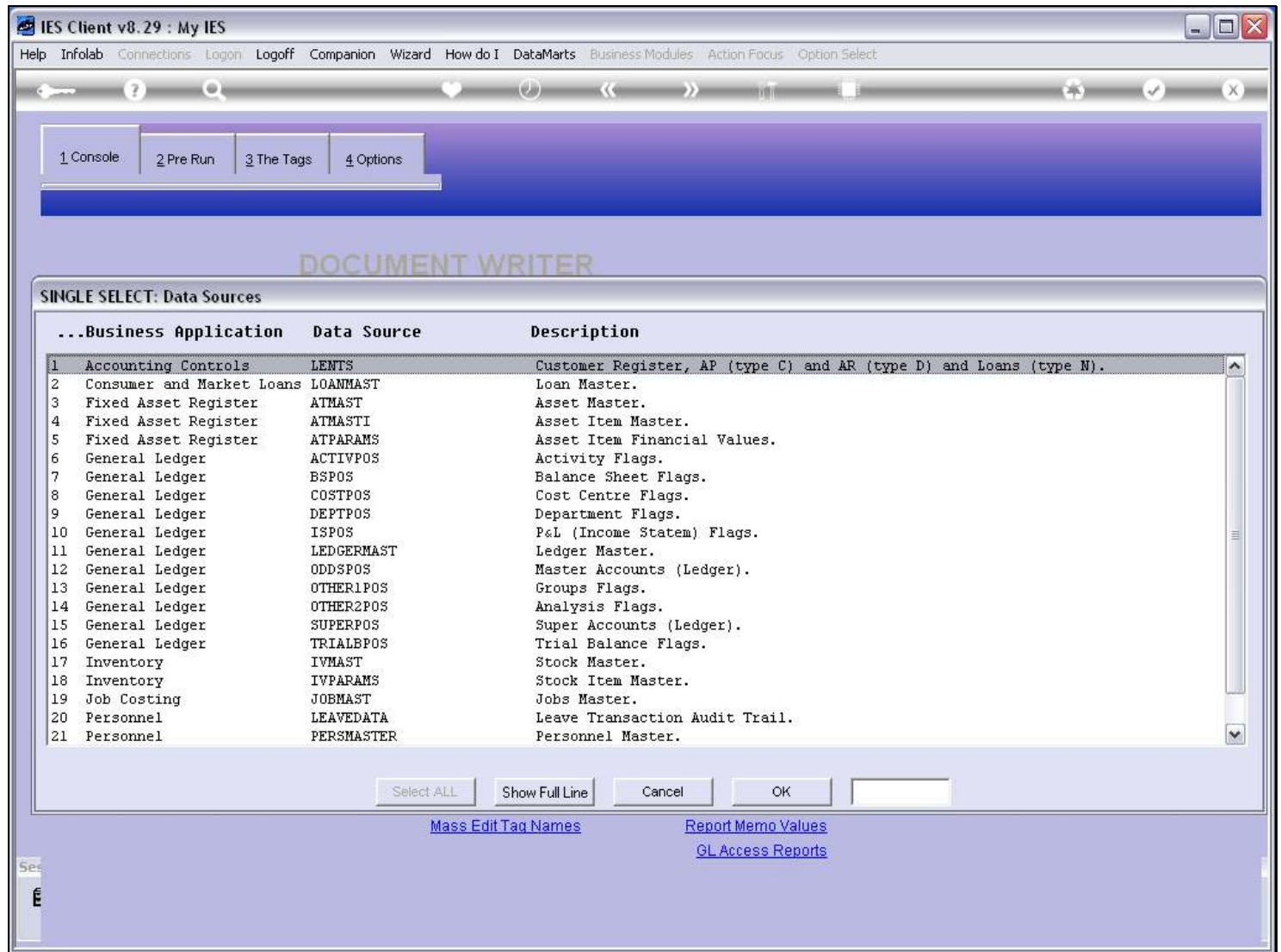
## Slide notes

There are 2 elements of interest here, and we look at the 'Data Sources' first.

**Slide 3 - Slide 3****Slide notes**

The longest list of Data Sources are the 'All Sources' and the shortest list is 'Most Often used'. The latter includes the popular Files that are most often used as Data Sources for Reports.

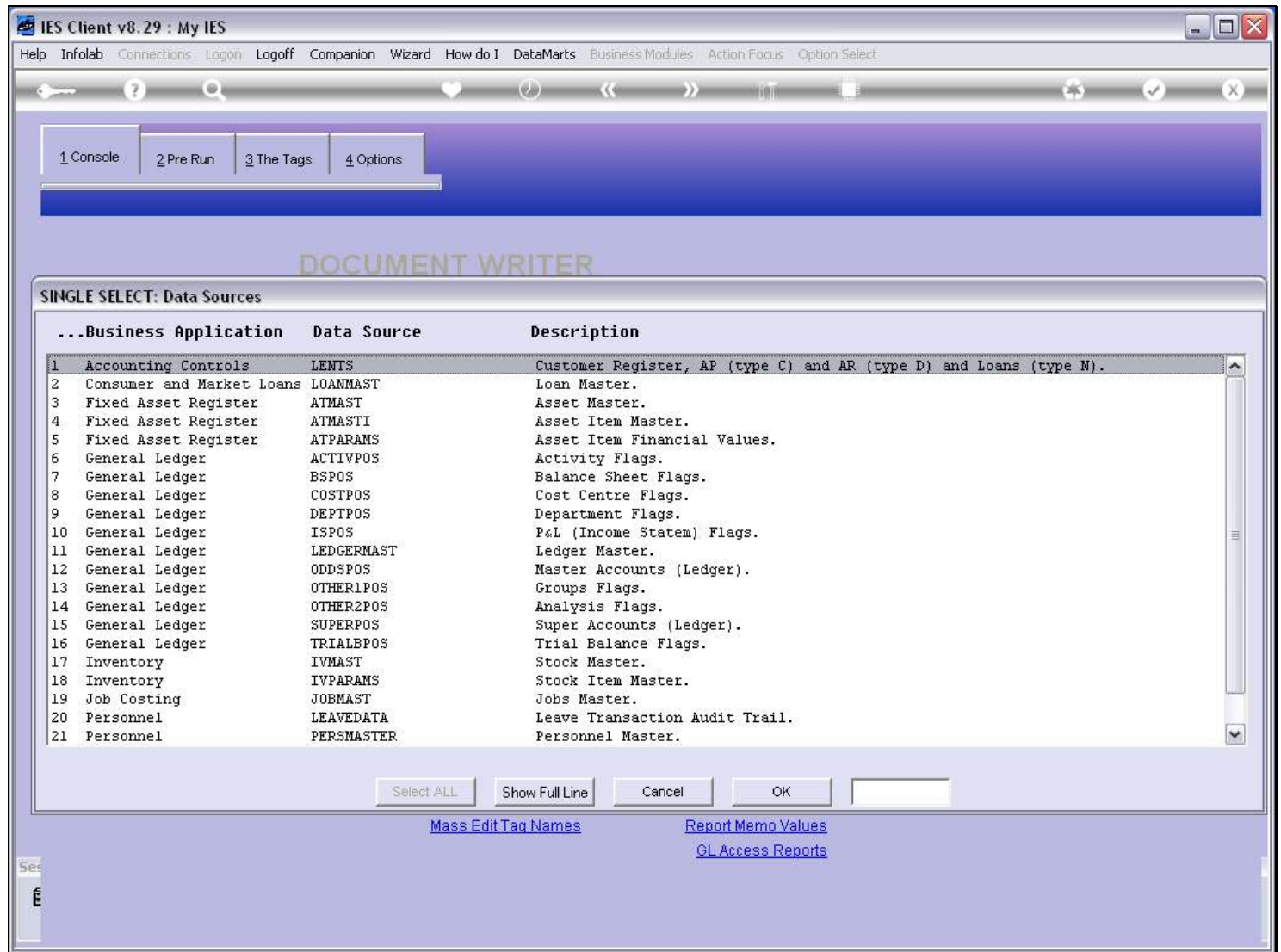
## Slide 4 - Slide 4



## Slide notes

With the Application Names on the left and the Descriptions on the right, it is not hard to find the correct Data Source that we want to use. A Data Source is a File with data, and usually with Data Names that are sufficiently intelligent to interpret data and translate it into information, sometimes in the process performing logic or calculating new Values, and often retrieving additional linked Values from other Files.

## Slide 5 - Slide 5



## Slide notes

If we select a Data Source here, then we will get a Report with the available Data Names in this Data Source. The Data Names are the most often used parameters in our Report Writing.

## Slide 6 - Slide 6

IES Client v8.29 : My IES

Help Submit Quit Functions Commands

IES REPORTS AND QUERIES: - User Instructions

NAME: USER SELECTED REPORT

1: - CHOOSE VERSION [Versions](#)

Report Version: system

2: - CHOOSE SETTINGS

Format: report

OutPut: FILE

File Type: htm html file

Template: 05: Gummy Hoops Inc

Report Header: \*\*\* not offered for adaptation \*\*\*\*

3: - CHOOSE DATA SELECTOR [Change Selector](#)

Data Selector: external data selection

4: - TO e-MAIL THE RESULTS Priority: normal

☐ Despatch By E-Mail Mail Drive \*

Mail To: report by mail

Mail Title: report by mail

Message Body: report by mail

5: - ADAPT DATA SELECTION (if prompts are present) [How to define MY CHOICE](#) [Restore Defaults](#)

Selection Tip	My Choice
1	

Nex Pre Add Ins Ed Del

6: - Record Select:

☐ OPEN Records only

☐ CLOSED Records Only

☒ EITHER

7: - CHOOSE NEXT [Next](#)

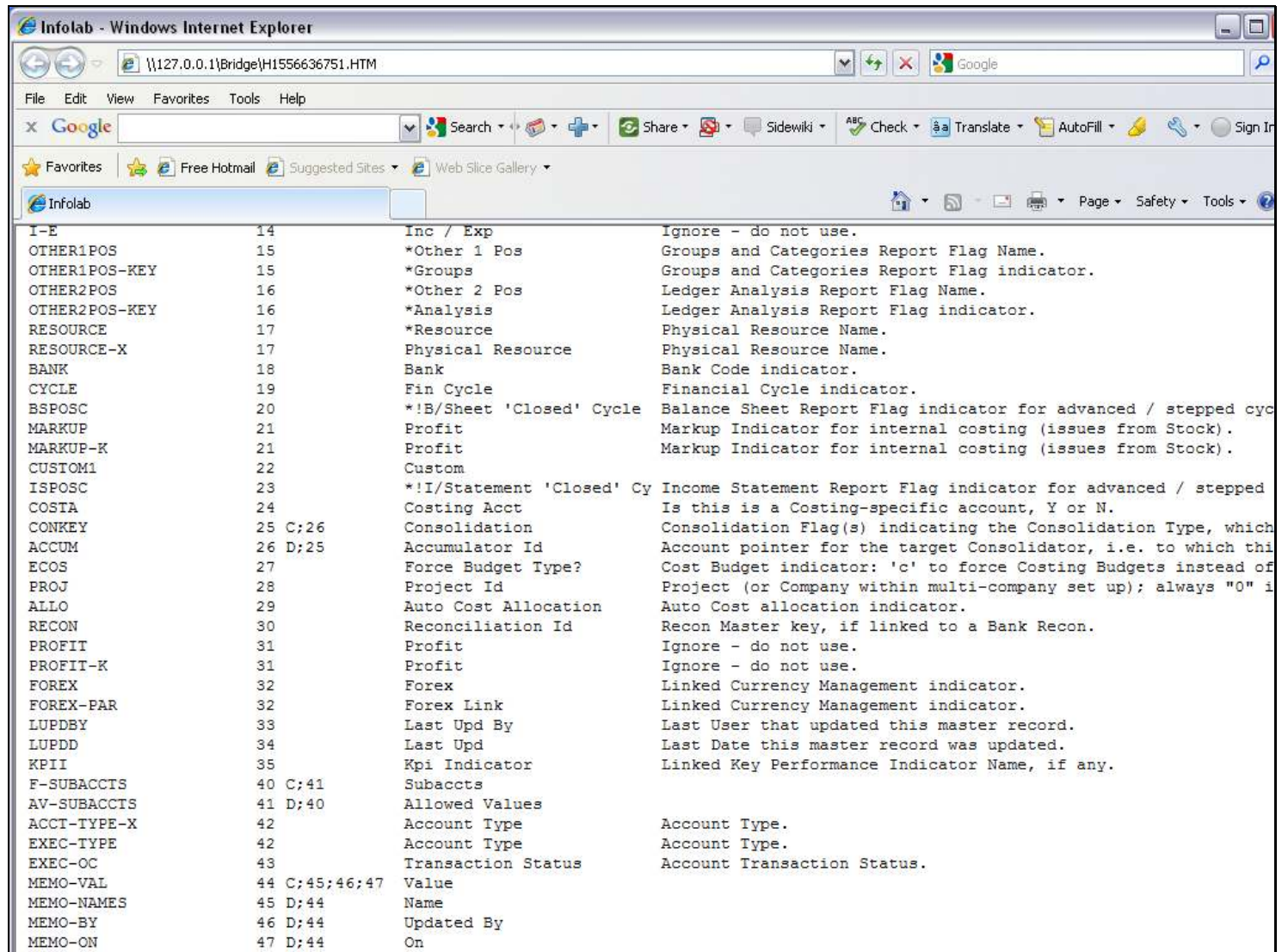
## Slide notes

**Slide 7 - Slide 7****Slide notes**

The Ledger Master is used as the basis for many Reports, and this Report reveals the available intelligent Data Names that we can use with GL Reports.



## Slide 8 - Slide 8

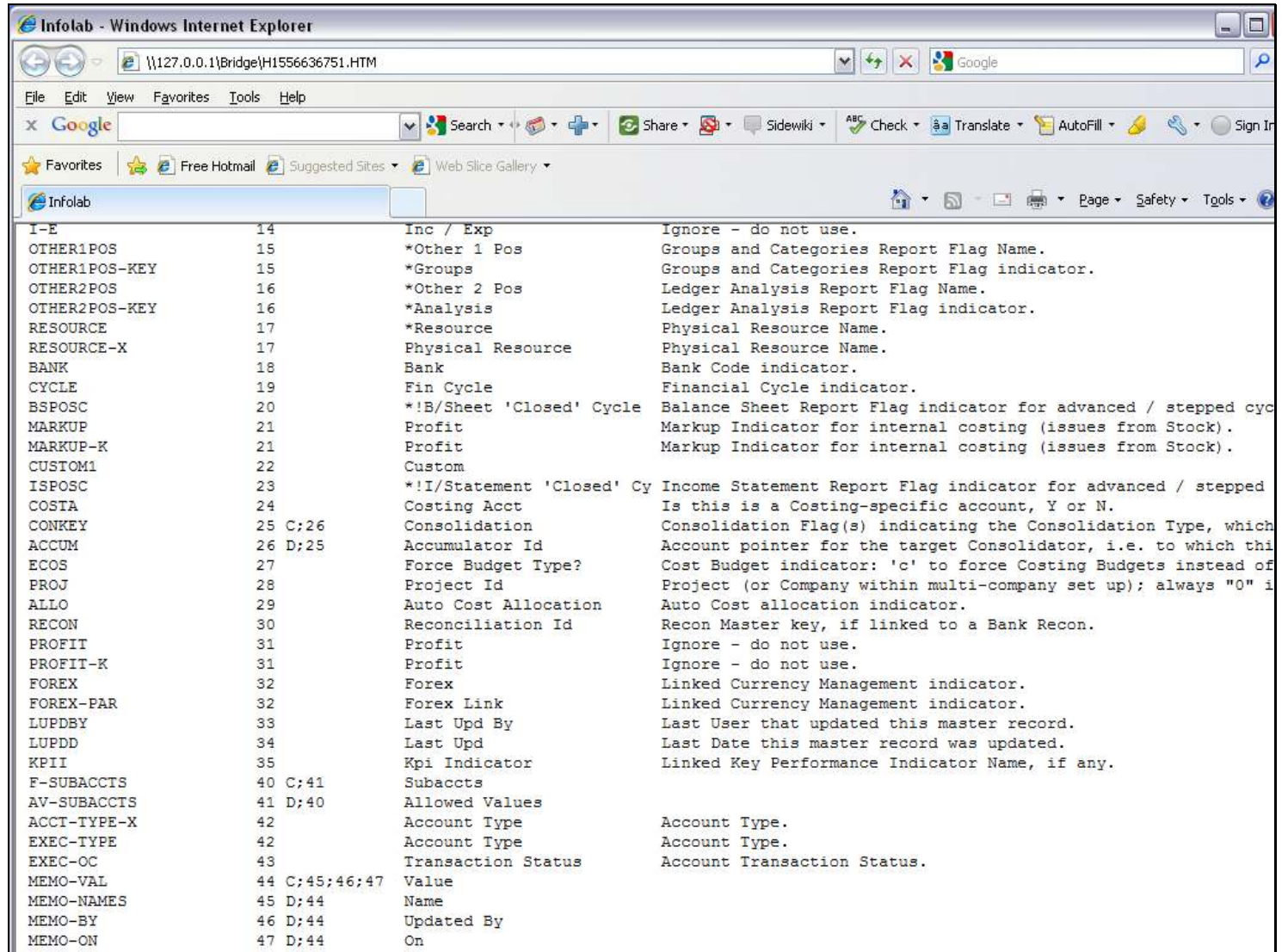


I-E	14	Inc / Exp	Ignore - do not use.
OTHER1POS	15	*Other 1 Pos	Groups and Categories Report Flag Name.
OTHER1POS-KEY	15	*Groups	Groups and Categories Report Flag indicator.
OTHER2POS	16	*Other 2 Pos	Ledger Analysis Report Flag Name.
OTHER2POS-KEY	16	*Analysis	Ledger Analysis Report Flag indicator.
RESOURCE	17	*Resource	Physical Resource Name.
RESOURCE-X	17	Physical Resource	Physical Resource Name.
BANK	18	Bank	Bank Code indicator.
CYCLE	19	Fin Cycle	Financial Cycle indicator.
BSPOSC	20	*!B/Sheet 'Closed' Cycle	Balance Sheet Report Flag indicator for advanced / stepped cyc
MARKUP	21	Profit	Markup Indicator for internal costing (issues from Stock).
MARKUP-K	21	Profit	Markup Indicator for internal costing (issues from Stock).
CUSTOM1	22	Custom	
ISPOSC	23	*!I/Statement 'Closed' Cy	Income Statement Report Flag indicator for advanced / stepped
COSTA	24	Costing Acct	Is this is a Costing-specific account, Y or N.
CONKEY	25 C;26	Consolidation	Consolidation Flag(s) indicating the Consolidation Type, which
ACCUM	26 D;25	Accumulator Id	Account pointer for the target Consolidator, i.e. to which thi
ECOS	27	Force Budget Type?	Cost Budget indicator: 'c' to force Costing Budgets instead of
PROJ	28	Project Id	Project (or Company within multi-company set up); always "0" i
ALLO	29	Auto Cost Allocation	Auto Cost allocation indicator.
RECON	30	Reconciliation Id	Recon Master key, if linked to a Bank Recon.
PROFIT	31	Profit	Ignore - do not use.
PROFIT-K	31	Profit	Ignore - do not use.
FOREX	32	Forex	Linked Currency Management indicator.
FOREX-PAR	32	Forex Link	Linked Currency Management indicator.
LUPDBY	33	Last Upd By	Last User that updated this master record.
LUPDD	34	Last Upd	Last Date this master record was updated.
KPII	35	Kpi Indicator	Linked Key Performance Indicator Name, if any.
F-SUBACCTS	40 C;41	Subaccts	
AV-SUBACCTS	41 D;40	Allowed Values	
ACCT-TYPE-X	42	Account Type	Account Type.
EXEC-TYPE	42	Account Type	Account Type.
EXEC-OC	43	Transaction Status	Account Transaction Status.
MEMO-VAL	44 C;45;46;47	Value	
MEMO-NAMES	45 D;44	Name	
MEMO-BY	46 D;44	Updated By	
MEMO-ON	47 D;44	On	

## Slide notes



## Slide 9 - Slide 9



I-E	14	Inc / Exp	Ignore - do not use.
OTHER1POS	15	*Other 1 Pos	Groups and Categories Report Flag Name.
OTHER1POS-KEY	15	*Groups	Groups and Categories Report Flag indicator.
OTHER2POS	16	*Other 2 Pos	Ledger Analysis Report Flag Name.
OTHER2POS-KEY	16	*Analysis	Ledger Analysis Report Flag indicator.
RESOURCE	17	*Resource	Physical Resource Name.
RESOURCE-X	17	Physical Resource	Physical Resource Name.
BANK	18	Bank	Bank Code indicator.
CYCLE	19	Fin Cycle	Financial Cycle indicator.
BSPOSC	20	*!B/Sheet 'Closed' Cycle	Balance Sheet Report Flag indicator for advanced / stepped cyc
MARKUP	21	Profit	Markup Indicator for internal costing (issues from Stock).
MARKUP-K	21	Profit	Markup Indicator for internal costing (issues from Stock).
CUSTOM1	22	Custom	
ISPOSC	23	*!I/Statement 'Closed' Cy	Income Statement Report Flag indicator for advanced / stepped
COSTA	24	Costing Acct	Is this is a Costing-specific account, Y or N.
CONKEY	25 C;26	Consolidation	Consolidation Flag(s) indicating the Consolidation Type, which
ACCUM	26 D;25	Accumulator Id	Account pointer for the target Consolidator, i.e. to which thi
ECOS	27	Force Budget Type?	Cost Budget indicator: 'c' to force Costing Budgets instead of
PROJ	28	Project Id	Project (or Company within multi-company set up); always "0" i
ALLO	29	Auto Cost Allocation	Auto Cost allocation indicator.
RECON	30	Reconciliation Id	Recon Master key, if linked to a Bank Recon.
PROFIT	31	Profit	Ignore - do not use.
PROFIT-K	31	Profit	Ignore - do not use.
FOREX	32	Forex	Linked Currency Management indicator.
FOREX-PAR	32	Forex Link	Linked Currency Management indicator.
LUPDBY	33	Last Upd By	Last User that updated this master record.
LUPDD	34	Last Upd	Last Date this master record was updated.
KPII	35	Kpi Indicator	Linked Key Performance Indicator Name, if any.
F-SUBACCTS	40 C;41	Subaccts	
AV-SUBACCTS	41 D;40	Allowed Values	
ACCT-TYPE-X	42	Account Type	Account Type.
EXEC-TYPE	42	Account Type	Account Type.
EXEC-OC	43	Transaction Status	Account Transaction Status.
MEMO-VAL	44 C;45;46;47	Value	
MEMO-NAMES	45 D;44	Name	
MEMO-BY	46 D;44	Updated By	
MEMO-ON	47 D;44	On	

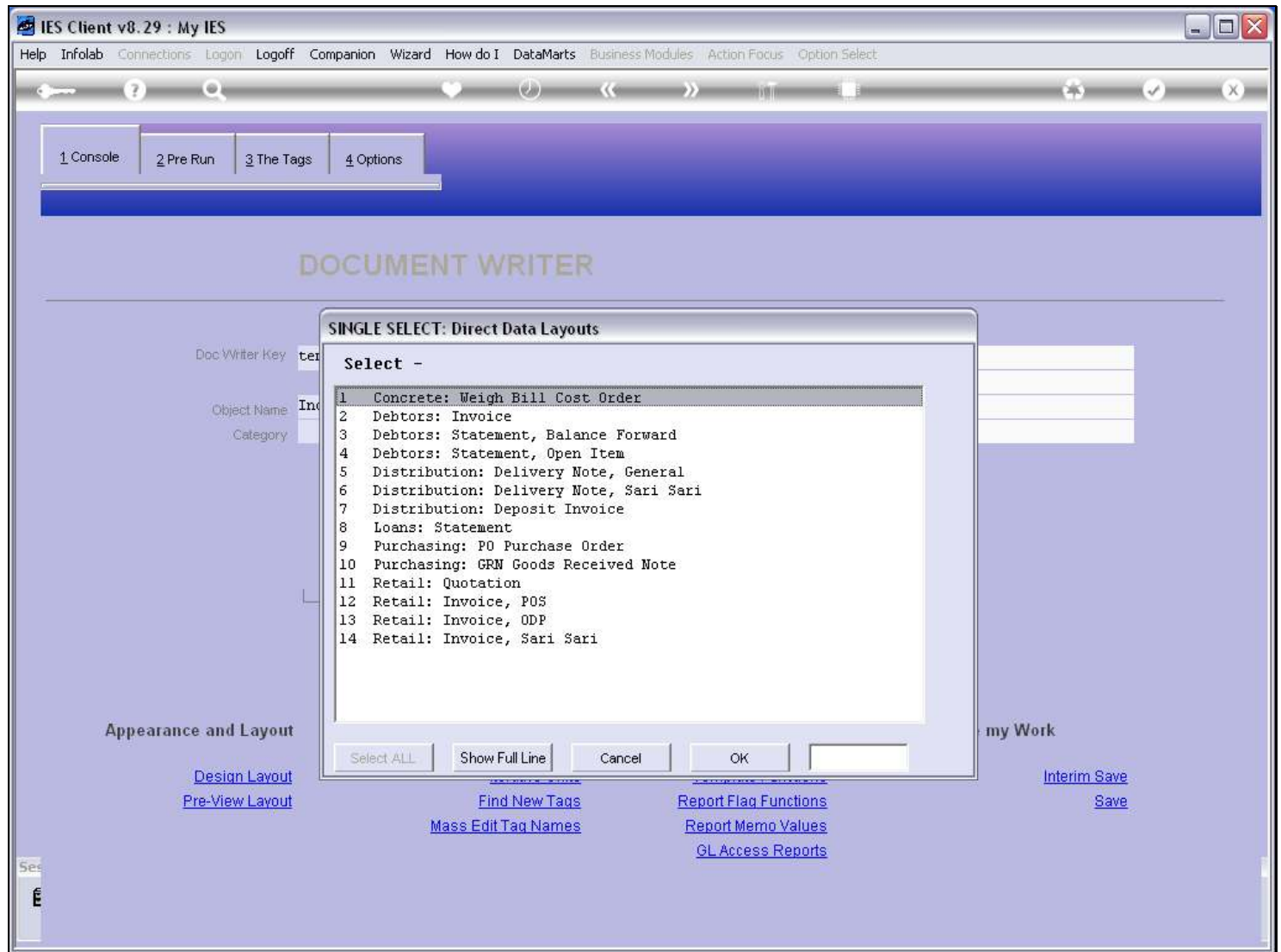
## Slide notes

## Slide 10 - Slide 10



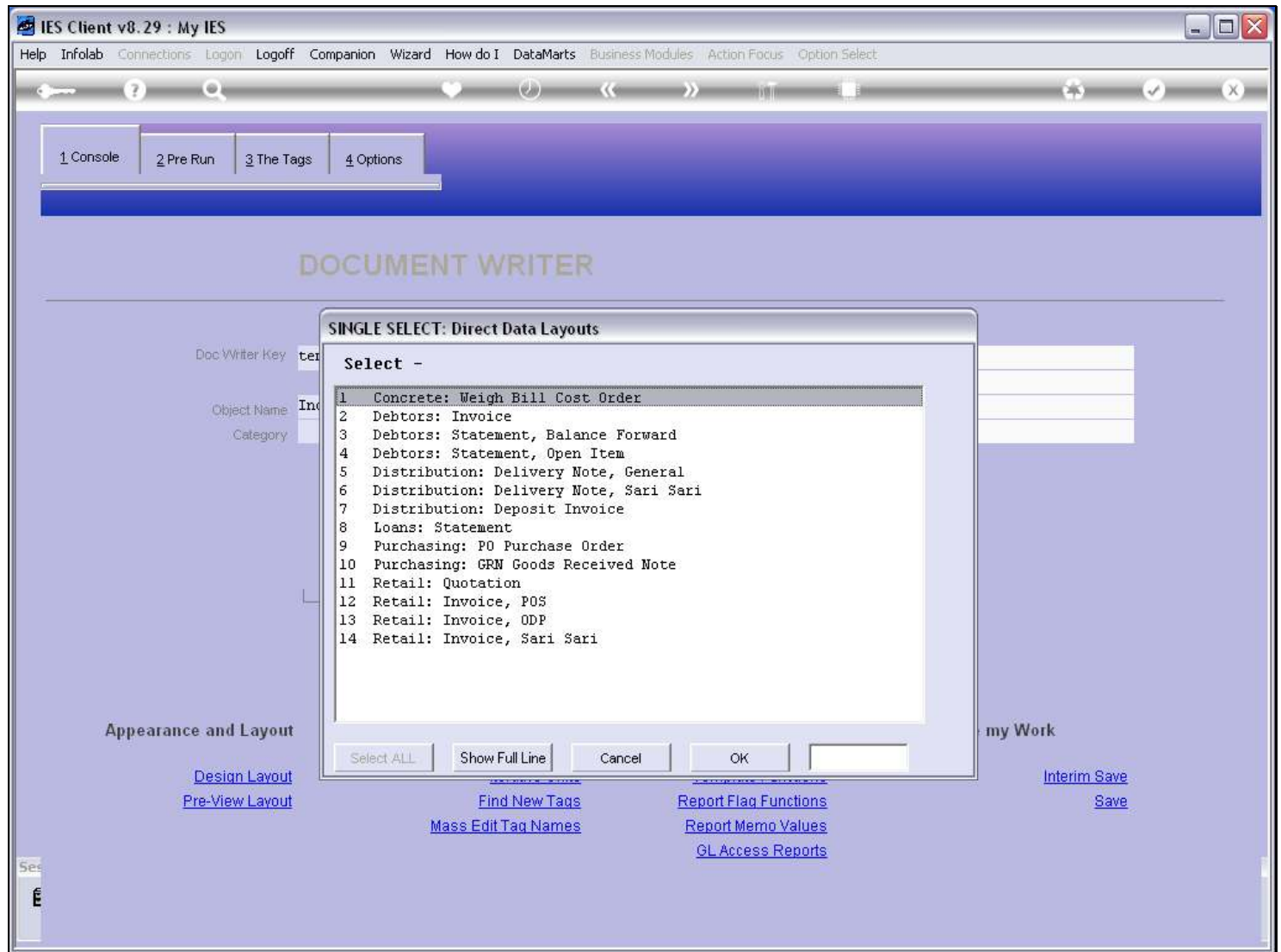
### Slide notes

Next we will look at the Direct Data Source Layouts. What are they? In some cases, the system will format a temporary data record for a special purpose, including in this record all the data that is required for a specific type of Report. Such a record has a temporary life and is destroyed again after the Report has been produced, and we call that a Direct Data Source Layout record. More often than not, this special Record is written to the file called DOCWRITESPRE, and for our Report we can simply extract whichever Values we need from the Data Record, and we do so by Data Field Number.

**Slide 11 - Slide 11****Slide notes**

Here we have some examples of direct Data Source Layouts provided by the system when certain events occur.

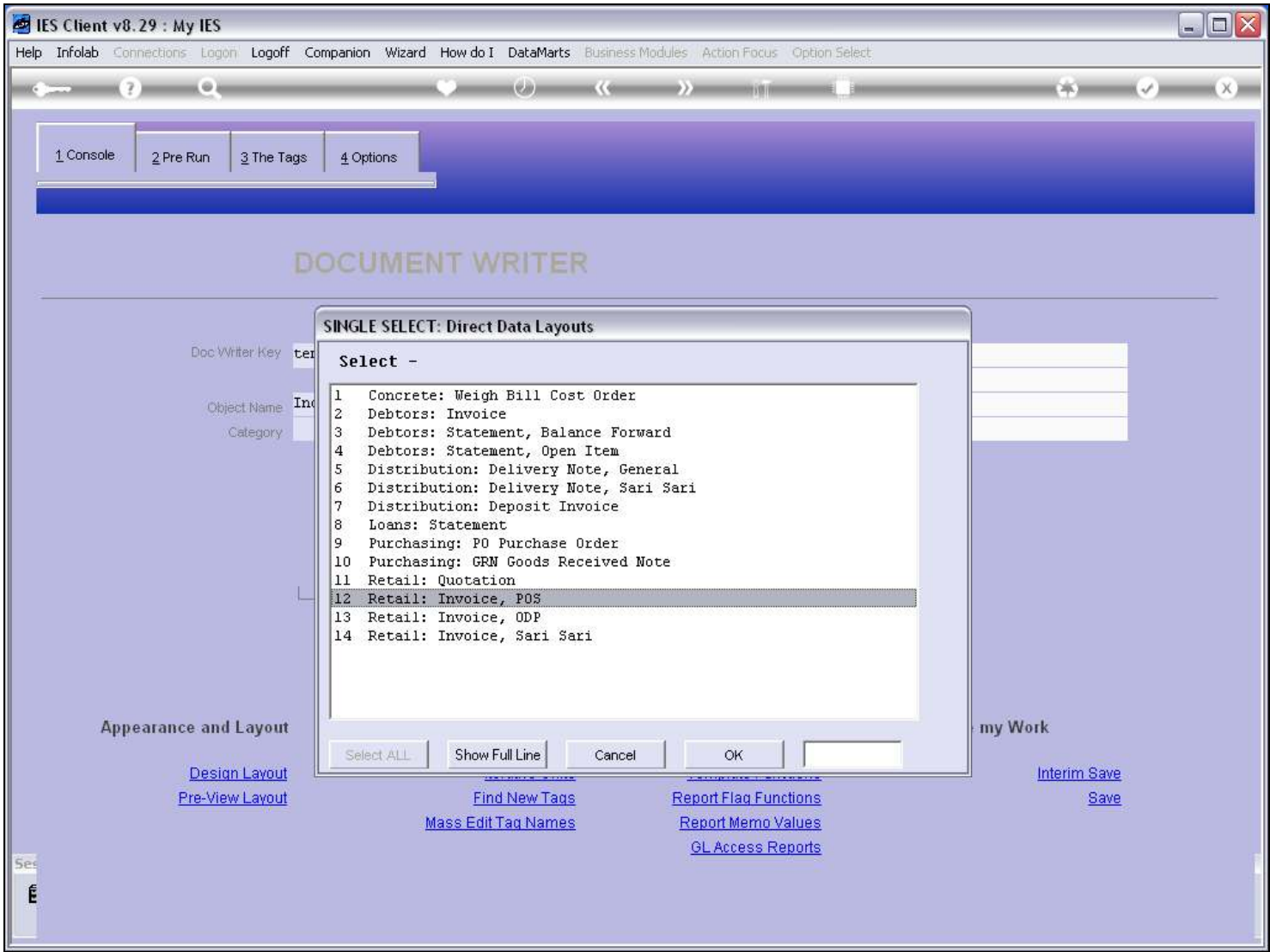
## Slide 12 - Slide 12



### Slide notes

For example, when a Retail Invoice must be generated, then the system puts together all the related pieces of information from various Files, into 1 single record, and writes it to DOCWRITESPRE. That means that our Report Layout for the Invoice can be customized any way we'd like to present it, and our Tags will just retrieve the relevant Values from the correct Field Numbers in this Data Record that has already been prepared by the system.

Slide 13 - Slide 13



Slide notes



## Slide 14 - Slide 14

IES Client v8.29 : My IES

Help Submit Quit Functions Commands

Document

[Next](#)

Retail Invoice, Point of Sale - Direct Data Layout

-----

The Retail Invoice Data are pre-formatted to a 'docwritespre' source record before calling Document Writer. If this report (RETAIL-INV, RETAIL-INV-2, RETAIL-INV-FX, RETAIL-INV-FX-2) is re-created as a modified version (swap), then the data layout may be accessed as follows: -

Field #	Data
Transaction Line Detail (multi valued), Invoice Currency e.g. Local or Forex	
1,n	Transaction Date
2,n	Description
3,n	Item Code
4,n	Quantity
5,n	Amount (inclusive)
6,n	Line Tax
7,n	Amount (exclusive)
8,n	Line Discount Amt
9,n	Serial / Batch No
10,n	* if sale and not delivered now
Transaction Line Detail (multi valued), Local Currency	
51,n	Amount (inclusive)
52,n	Line Tax
53,n	Amount (exclusive)
54,n	Line Discount Amt
Totals in Invoice Currency e.g. Local or Forex	

Make a copy - [Text Copy](#)

Search Phrase

Search the IES web on-line documentation by typing a phrase, then choose "search".

[Search](#)

Doc Key: dds-layout-05

## Slide notes

So we may note here that 'RETAIL-INV' is one of the Reports that will be using this Data Layout, and we want to refer back to this to tie together the concepts.



## Slide 15 - Slide 15

IES Client v8.29 : My IES

Help Submit Quit Functions Commands

Document

[Next](#)

Retail Invoice, Point of Sale - Direct Data Layout

-----

The Retail Invoice Data are pre-formatted to a 'docwritespre' source record before calling Document Writer. If this report (RETAIL-INV, RETAIL-INV-2, RETAIL-INV-FX, RETAIL-INV-FX-2) is re-created as a modified version (swap), then the data layout may be accessed as follows: -

Field #	Data
-----	
Transaction Line Detail (multi valued), Invoice Currency e.g. Local or Forex	
1,n	Transaction Date
2,n	Description
3,n	Item Code
4,n	Quantity
5,n	Amount (inclusive)
6,n	Line Tax
7,n	Amount (exclusive)
8,n	Line Discount Amt
9,n	Serial / Batch No
10,n	* if sale and not delivered now
Transaction Line Detail (multi valued), Local Currency	
51,n	Amount (inclusive)
52,n	Line Tax
53,n	Amount (exclusive)
54,n	Line Discount Amt
Totals in Invoice Currency e.g. Local or Forex	

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Search Phrase

Search the IES web on-line documentation by typing a phrase, then choose "search".

[Search](#)

Doc Key: dds-layout-05

## Slide notes

And we see here a list of Data Field numbers, and what data may be expected at those positions. Some Data Fields can have multiple values, and those are usually indicated with ',n'. For example, the Transaction Lines, for which there is 1 line for each Item on the Invoice.

**Slide 16 - Slide 16**



**Slide notes**

Slide 17 - Slide 17

IES Client v8.29 : My IES

Help Submit Quit Functions Commands

Document

Next

52,n Line Tax  
53,n Amount (exclusive)  
54,n Line Discount Amt  
Totals in Invoice Currency e.g. Local or Forex  
30 Invoice Total excluding Tax  
31 Invoice Total Tax  
32 Invoice Total including Tax  
65 Prepaid Amount or Deposit  
Totals in Local Currency  
61 Invoice Total excluding Tax  
62 Invoice Total Tax  
63 Invoice Total including Tax  
64 Prepaid Amount or Deposit  
Other Indicators  
17 Copy (says COPY if it is a copy, else null)  
18 Invoice or Credit Note  
20,n Postal Address Header Lines (multi valued)  
21,n Physical Address Header Lines (multi valued)  
22 Currency  
23 Company Tax No  
24 Company Address Line  
25 Company Contact Line  
26 Payment Terms  
27 Message

Make a copy -  
Text Copy  
Search Phrase  
Search the IES web on-line documentation  
by typing a phrase, then choose "search".  
Search

Doc Key dds-layout-05

Slide notes

Page 17 of 41

**Slide 18 - Slide 18**



**Slide notes**

Slide 19 - Slide 19

IES Client v8.29 : My IES

Help Submit Quit Functions Commands

Document

Transaction Line Detail (multi valued), Local Currency

51,nAmount (inclusive)

52,nLine Tax

53,nAmount (exclusive)

54,nLine Discount Amt

Totals in Invoice Currency e.g. Local or Forex

30Invoice Total excluding Tax

31Invoice Total Tax

32Invoice Total including Tax

65Prepaid Amount or Deposit

Totals in Local Currency

61Invoice Total excluding Tax

62Invoice Total Tax

63Invoice Total including Tax

64Prepaid Amount or Deposit

Other Indicators

17Copy (says COPY if it is a copy, else null)

18Invoice or Credit Note

20,nPostal Address Header Lines (multi valued)

21,nPhysical Address Header Lines (multi valued)

22Currency

23Company Tax No

24Company Address Line

Next

Make a copy -

Text Copy

Search Phrase

Search the IES web on-line documentation by typing a phrase, then choose "search".

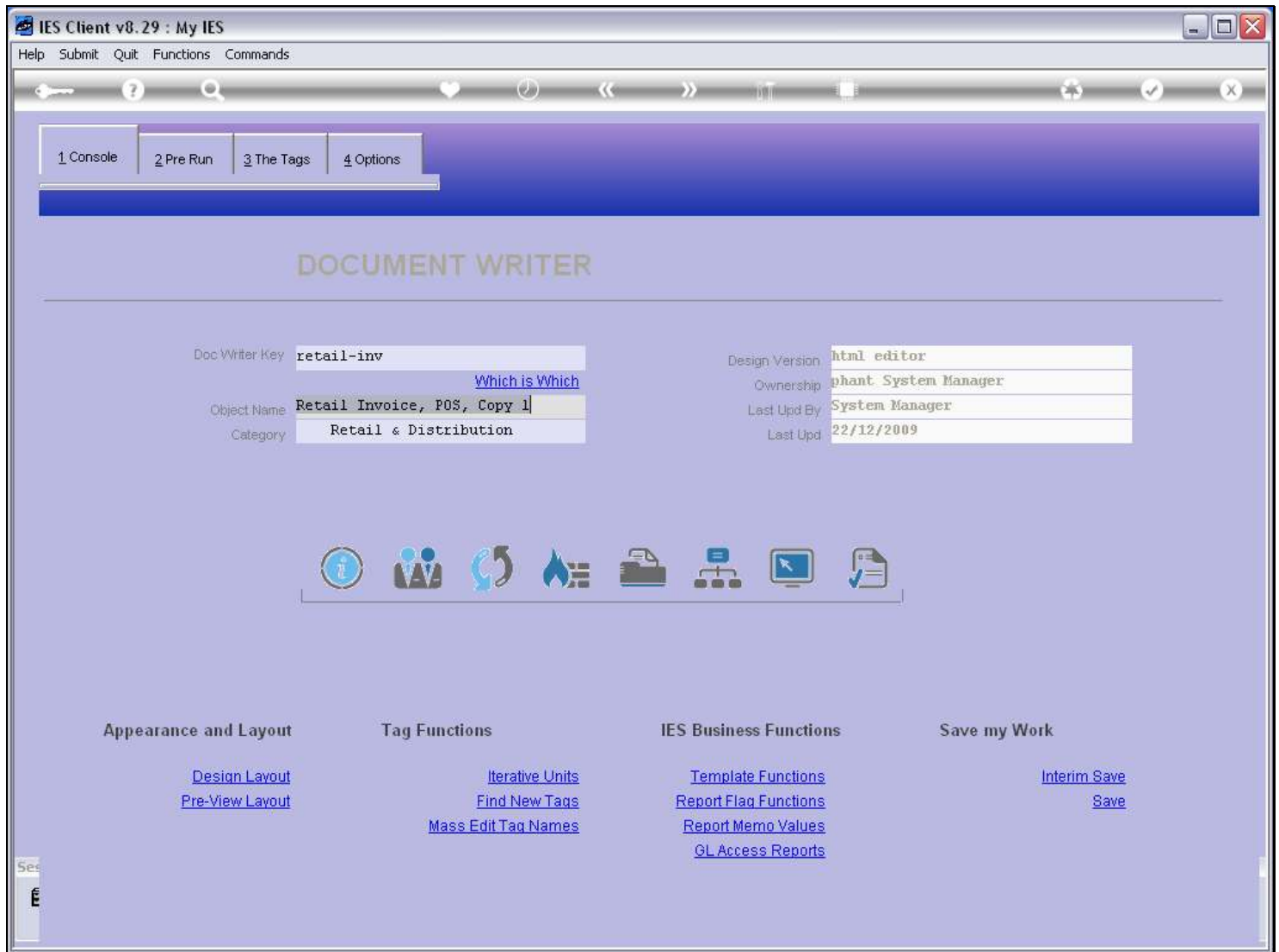
Search

Doc Key dds-layout-05

Slide notes

Page 19 of 41

## Slide 20 - Slide 20

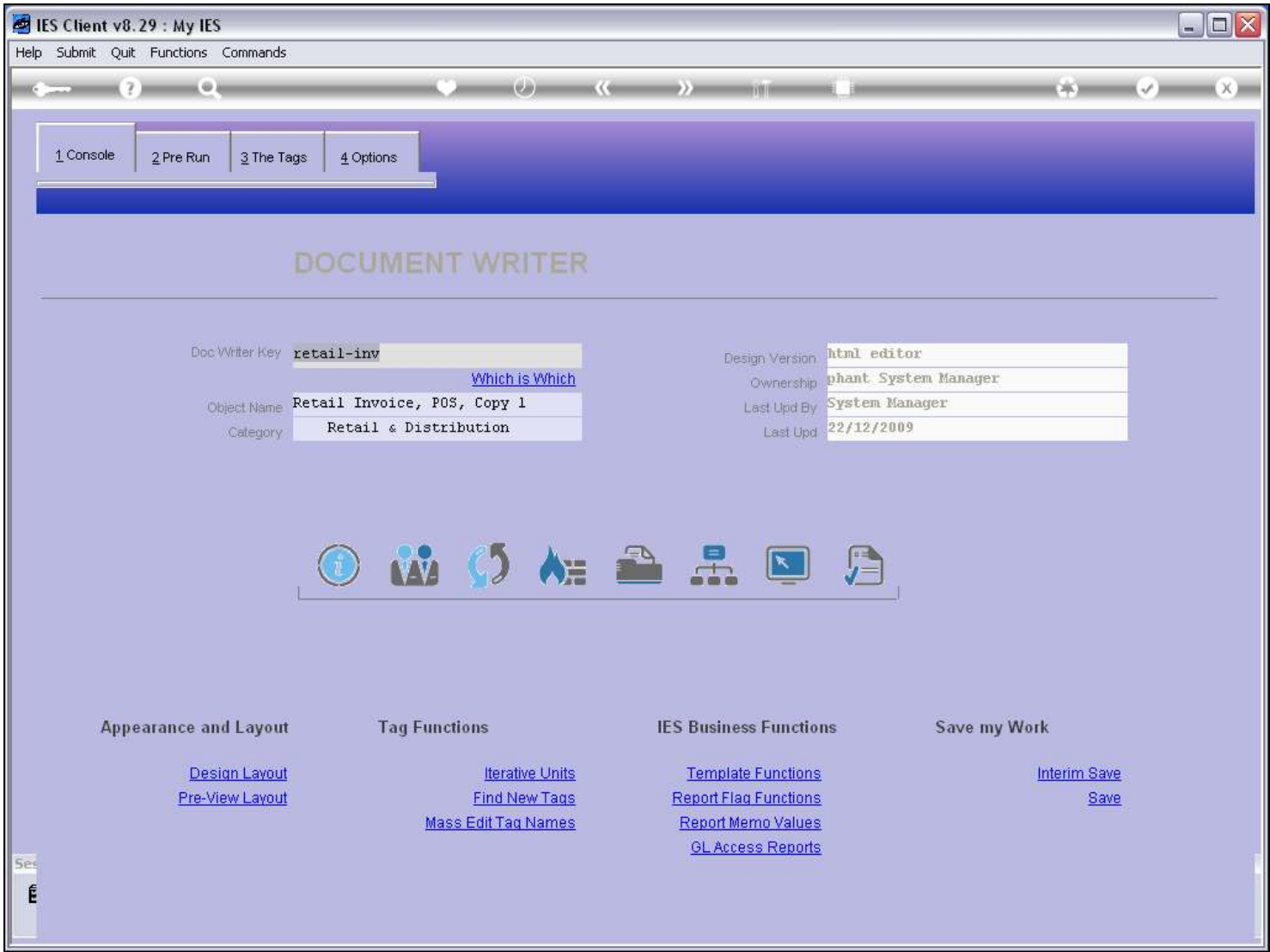


## Slide notes

So here we have that very Report. Now let us look at the Layout for this Report, which is an Invoice.

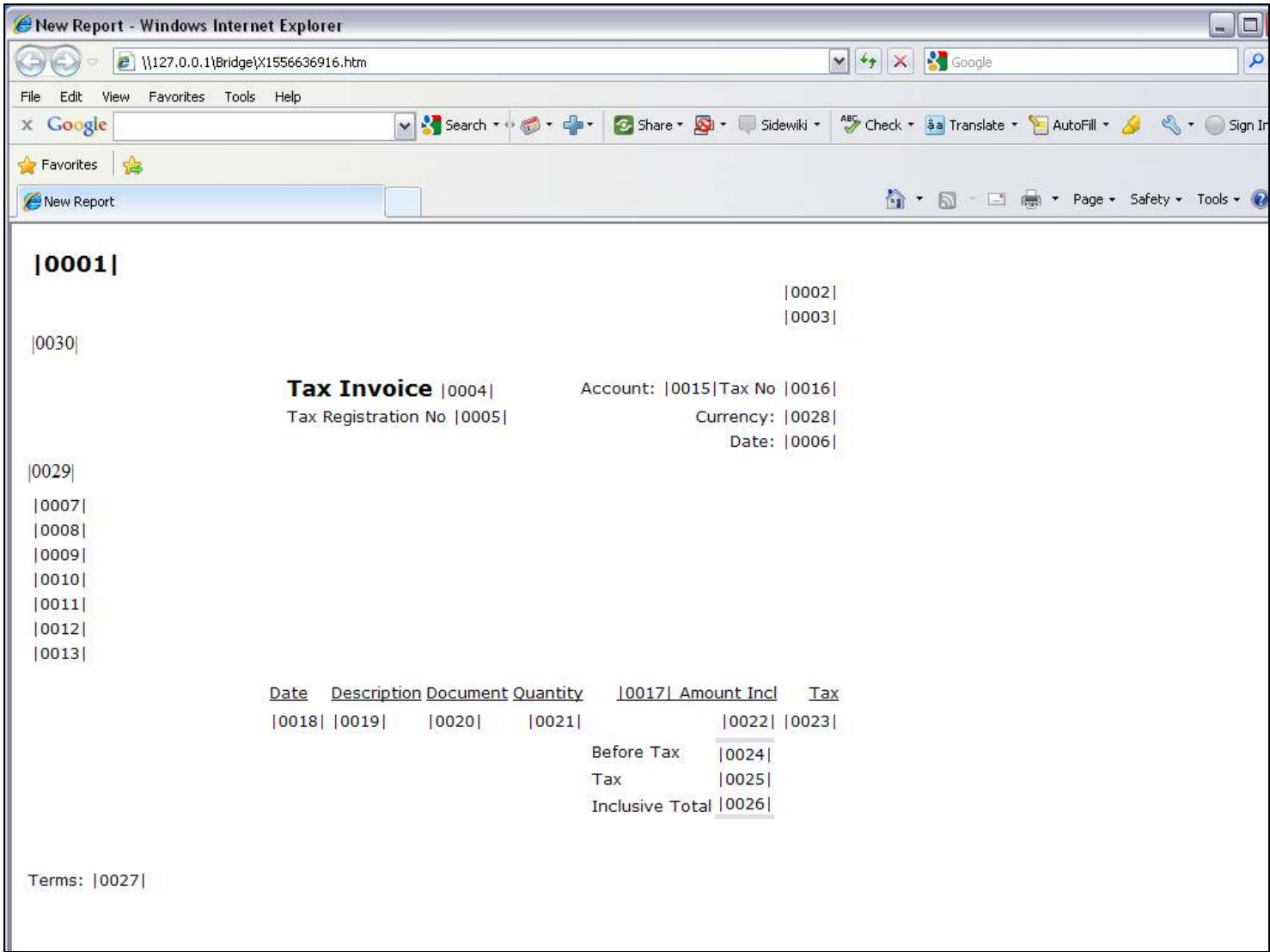


Slide 21 - Slide 21



Slide notes

Slide 22 - Slide 22



Slide notes

At Tag 0018 we will have a Unit that can expand into multiple lines, i.e. depending on the number of Items on the Invoice. The example that we will investigate is Tag 0005, which will display the Company Tax Number.

Windows Internet Explorer

File Edit View Favorites Tools Help

Google Search

Share Sidewiki Check Translate AutoFill Sign In

Favorites Free Hotmail Suggested Sites Web Slice Gallery

New Report

Home RSS Print Page Safety Tools

||0001|

||0002|

||0003|

||0030|

**Tax Invoice** ||0004| Account: ||0015|Tax No ||0016|

Tax Registration No ||0005| Currency: ||0028|

Date: ||0006|

||0029|

||0007|

||0008|

||0009|

||0010|

||0011|

||0012|

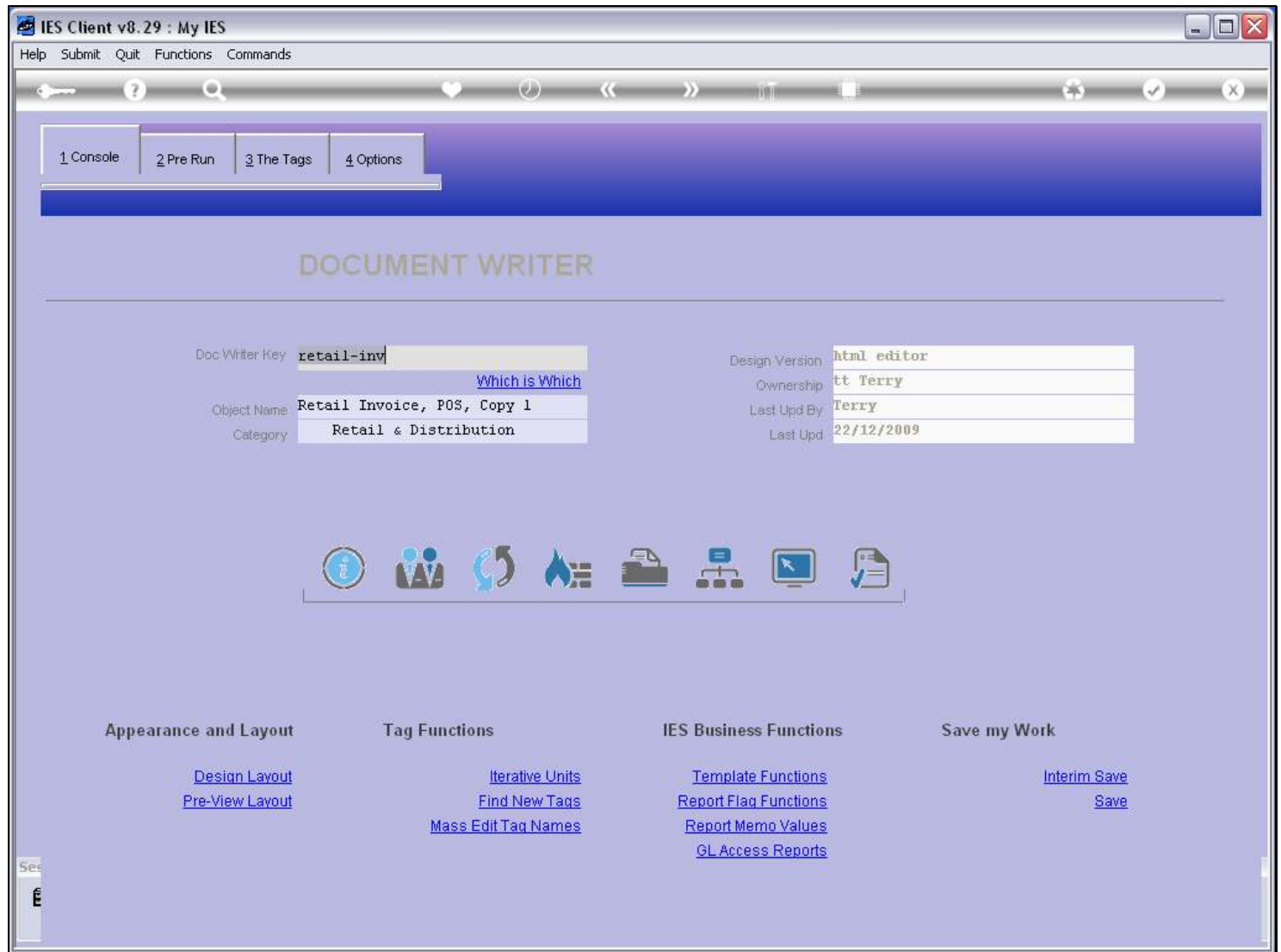
||0013|

Date	Description	Document	Quantity	0017	Amount Incl	Tax
0018	0019	0020	0021		0022	0023
				Before Tax	0024	
				Tax	0025	
				Inclusive Total	0026	

Terms: ||0027|

## Slide notes

## Slide 24 - Slide 24



## Slide notes

So let's have a look at Tag 0005.

## Slide 25 - Slide 25

IES Client v8.29 : My IES

Help Submit Quit Functions Commands

1 Console 2 Pre Run 3 The Tags 4 Options

Tag Result Macros: -

	>>> Tags	Value Names	Exec It
1	0001	Company Name	1
2	0002	Company Address	1
3	0003	Company Contact	1
4	0030	Line	1
5	0004	Invoice Number	1
6	0015	Customer Account Code	1
7	0016	Customer Tax Number	1
8	0005	Company Tax Number	1
9	0028	Currency	1
10	0006	Invoice Date	1
11	0029	Line	1
12	0007	Customer Name	1
13	0008	Customer Address	1
14	0009	Customer Address	1
15	0010	Customer Address	1
16	0011	Customer Address	1
17	0012	Customer Address	1
18	0013	Customer Address	1
19	0014	Line	1
20	0017	Currency	1
21	0018	Unit Call	1
22	0019	*** unit dependent	1
23	0020	*** unit dependent	1
24	0021	*** unit dependent	1
25	0022	*** unit dependent	1

Where is that tag !

[Select from Tag List](#)

[Search for Tag Number](#)

[Search for Tag Name](#)

Current Tag Focus: -

Row	8
Tag #	0005
Name	Company Tax Number

[Open the Tag Macro](#)

Nex Pre Add Ins Ed Del

## Slide notes

**Slide 26 - Slide 26**

The screenshot shows the IES Client v8.29: My IES window. The main area displays the configuration for 'TEMPLATE 017: Alpha-Numeric from Data Source'. The configuration includes the following fields and values:

- TAG #: 0005
- Name: Company Tax Number
- Data Source #: DOCWRITESPRE
- Data Field #: 23
- Multi Value #: 1
- Tag Addressing: relative
- Display Mask: (empty)
- Alignment: l: left justified
- Result Width: 40
- Bold?: normal
- Underline?: normal
- Tag Result: always return a result
- Operator: =
- Conditional Value: (empty)

Buttons for 'Remove Template', 'Copy Template', 'Reveal Logic', and 'Save' are visible. The bottom status bar shows 'Session Info: Terry is using IES' and a list of open applications: Devtool, Application Wizard, Tag Template: Alpha-numeric From, BGFRIEND-TAG-TEMPLATE17, and a clock showing 2010/08/13 10:17:56.

**Slide notes**

And on the Tag Template, we can see that we are using a Data Source called DOCWRITESPRE, and we are using Data Field number 23.



## Slide 27 - Slide 27

IES Client v8.29 : My IES

Help Submit Quit Functions Commands

TEMPLATE 017: Alpha-Numeric from Data Source

TAG # 0005  
Name Company Tax Number

Data Source # DOCWRITESPRE  
Data Field # 23  
Multi Value # 1

Tag Addressing relative

Display Mask

Alignment l: left justified  
Result Width 40  
Bold ? normal  
Underline ? normal

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

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

Tag Result always return a result  
Operator =  
Conditional Value

Session Info: Terry is using IES

Devtool Application Wizard Tag Template: Alpha-numeric From BGFRIEND-TAG-TEMPLATE17 2010/08/13 10:17:57

## Slide notes

**Slide 28 - Slide 28**

IES Client v8.29 : My IES

Help Submit Quit Functions Commands

TEMPLATE 017: Alpha-Numeric from Data Source

TAG # 0005  
Name Company Tax Number

Data Source # 1  
Data Field # 23  
Multi Value # 1

Tag Addressing relative

Display Mask

Alignment l: left justified  
Result Width 40  
Bold ? normal  
Underline ? normal

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

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

Tag Result always return a result  
Operator =  
Conditional Value

Session Info: Terry is using IES

Devtool Application Wizard Tag Template: Alpha-numeric From BGFRIEND-TAG-TEMPLATE17 2010/08/13 10:18:00

**Slide notes**

## Slide 29 - Slide 29

IES Client v8.29 : My IES

Help Submit Quit Functions Commands

TEMPLATE 017: Alpha-Numeric from Data Source

TAG # 0005  
Name Company Tax Number

Data Source # DOCWRITESPRE  
Data Field # 23  
Multi Value # 1

Tag Addressing relative

Display Mask

Alignment l: left justified  
Result Width 40  
Bold ? normal  
Underline ? normal

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

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

Tag Result always return a result  
Operator =  
Conditional Value

Session Info: Terry is using IES

Devtool Application Wizard Tag Template: Alpha-numeric From BGFRIEND-TAG-TEMPLATE17 2010/08/13 10:18:03

## Slide notes

## Slide 30 - Slide 30

IES Client v8.29 : My IES

Help Submit Quit Functions Commands

1 Console 2 Pre Run 3 The Tags 4 Options

Tag Result Macros: -

	>>> Tags	Value Names	Exec It
1	0001	Company Name	1
2	0002	Company Address	1
3	0003	Company Contact	1
4	0030	Line	1
5	0004	Invoice Number	1
6	0015	Customer Account Code	1
7	0016	Customer Tax Number	1
8	0005	Company Tax Number	1
9	0028	Currency	1
10	0006	Invoice Date	1
11	0029	Line	1
12	0007	Customer Name	1
13	0008	Customer Address	1
14	0009	Customer Address	1
15	0010	Customer Address	1
16	0011	Customer Address	1
17	0012	Customer Address	1
18	0013	Customer Address	1
19	0014	Line	1
20	0017	Currency	1
21	0018	Unit Call	1
22	0019	*** unit dependent	1
23	0020	*** unit dependent	1
24	0021	*** unit dependent	1
25	0022	*** unit dependent	1

Where is that tag !

[Select from Tag List](#)

[Search for Tag Number](#)

[Search for Tag Name](#)

Current Tag Focus: -

Row	8
Tag #	0005
Name	Company Tax Number

[Open the Tag Macro](#)

Nex Pre Add Ins Ed Del

## Slide notes

## Slide 31 - Slide 31

IES Client v8.29 : My IES

Help Submit Quit Functions Commands

1 Console 2 Pre Run 3 The Tags 4 Options

Tag Result Macros: -

	>>> Tags	Value Names	Exec It
1	0001	Company Name	1
2	0002	Company Address	1
3	0003	Company Contact	1
4	0030	Line	1
5	0004	Invoice Number	1
6	0015	Customer Account Code	1
7	0016	Customer Tax Number	1
8	0005	Company Tax Number	1
9	0028	Currency	1
10	0006	Invoice Date	1
11	0029	Line	1
12	0007	Customer Name	1
13	0008	Customer Address	1
14	0009	Customer Address	1
15	0010	Customer Address	1
16	0011	Customer Address	1
17	0012	Customer Address	1
18	0013	Customer Address	1
19	0014	Line	1
20	0017	Currency	1
21	0018	Unit Call	1
22	0019	*** unit dependent	1
23	0020	*** unit dependent	1
24	0021	*** unit dependent	1
25	0022	*** unit dependent	1

Where is that tag !

[Select from Tag List](#)

[Search for Tag Number](#)

[Search for Tag Name](#)

Current Tag Focus: -

Row	8
Tag #	0005
Name	Company Tax Number

[Open the Tag Macro](#)

Nex Pre Add Ins Ed Del

## Slide notes

## Slide 32 - Slide 32

IES Client v8.29 : My IES

Help Submit Quit Functions Commands

1 Console 2 Pre Run 3 The Tags 4 Options

Tag Result Macros: -

	>>> Tags	Value Names	Exec It
1	0001	Company Name	1
2	0002	Company Address	1
3	0003	Company Contact	1
4	0030	Line	1
5	0004	Invoice Number	1
6	0015	Customer Account Code	1
7	0016	Customer Tax Number	1
8	0005	Company Tax Number	1
9	0028	Currency	1
10	0006	Invoice Date	1
11	0029	Line	1
12	0007	Customer Name	1
13	0008	Customer Address	1
14	0009	Customer Address	1
15	0010	Customer Address	1
16	0011	Customer Address	1
17	0012	Customer Address	1
18	0013	Customer Address	1
19	0014	Line	1
20	0017	Currency	1
21	0018	Unit Call	1
22	0019	*** unit dependent	1
23	0020	*** unit dependent	1
24	0021	*** unit dependent	1
25	0022	*** unit dependent	1

Where is that tag !

[Select from Tag List](#)

[Search for Tag Number](#)

[Search for Tag Name](#)

Current Tag Focus: -

Row	8
Tag #	0005
Name	Company Tax Number

[Open the Tag Macro](#)

Nex Pre Add Ins Ed Del

## Slide notes


So let's look at our Data Sources used for this Report.



**Slide 33 - Slide 33**

The screenshot shows the IES Client v8.29: My IES interface. The top menu bar includes Help, Submit, Quit, Functions, and Commands. Below the menu is a toolbar with icons for key, help, search, heart, clock, left arrow, right arrow, list, document, refresh, checkmark, and close. The main window has a tabbed interface with four tabs: 1 Console, 2 Pre Run (selected), 3 The Tags, and 4 Options. The Pre Run tab displays the following sections:

**PRE RUN PARAMETERS: -**

[Pre Run Assist](#) 


Pre Run Process:

Results File:

Results Key:

Proceed on Field #:

Conditional Value:

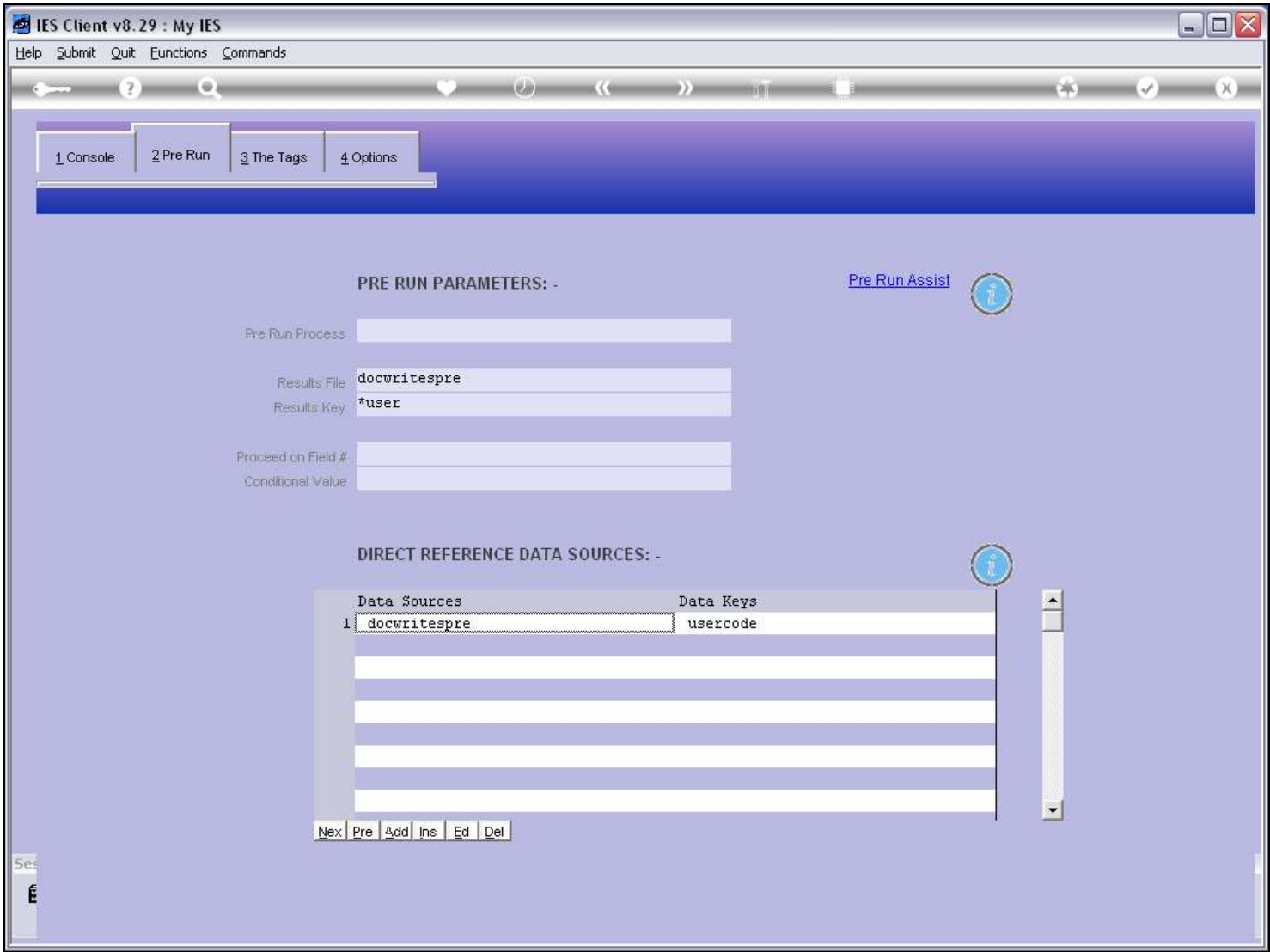
**DIRECT REFERENCE DATA SOURCES: -** 

Data Sources	Data Keys
1 docwritespre	usercode

**Slide notes**

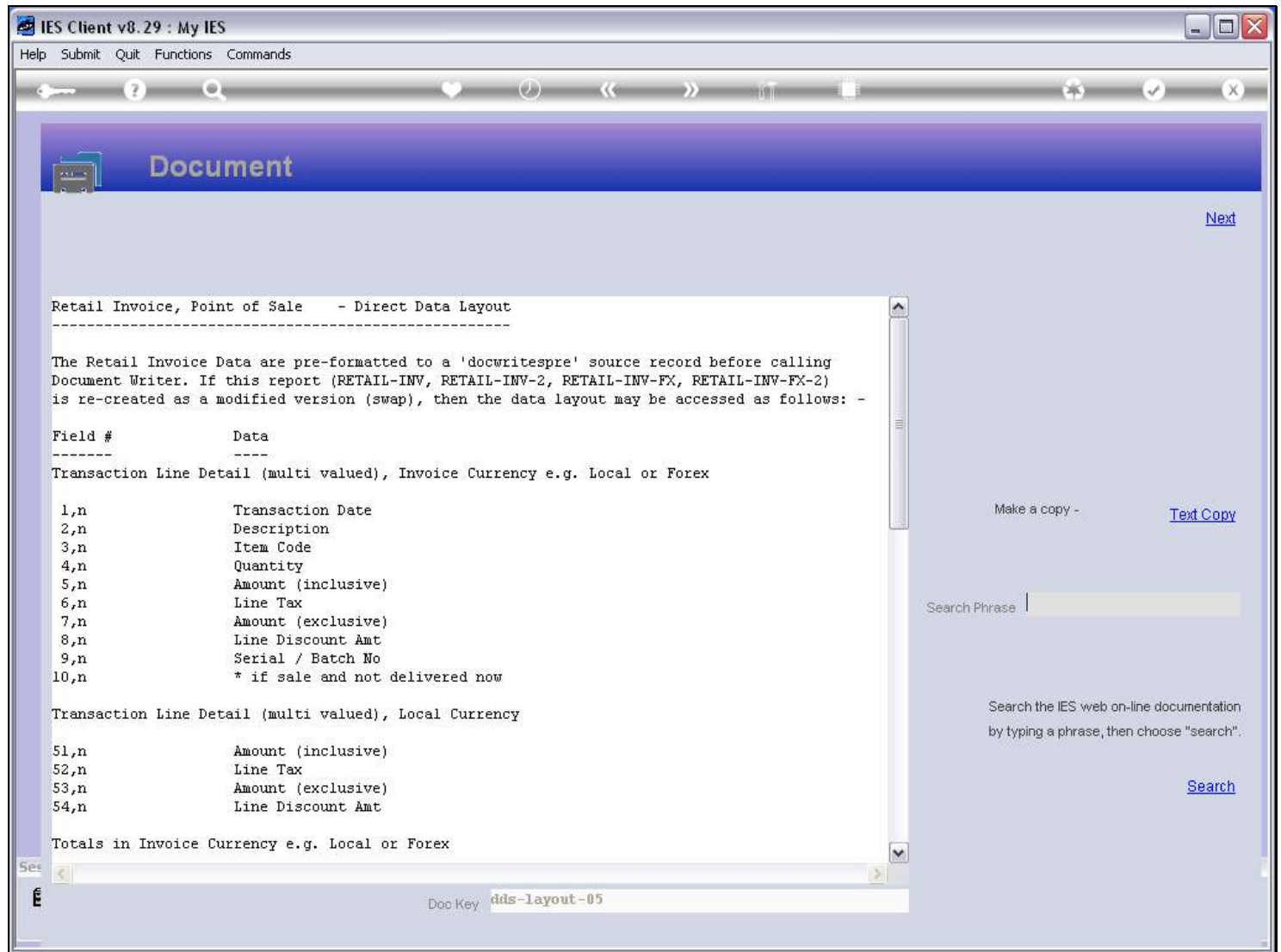
And, yes, we can see that our Data Source number 1 is also 'docwritespre'.

Slide 34 - Slide 34



Slide notes

## Slide 35 - Slide 35



IES Client v8.29 : My IES

Help Submit Quit Functions Commands

Document

[Next](#)

Retail Invoice, Point of Sale - Direct Data Layout

-----

The Retail Invoice Data are pre-formatted to a 'docwritespre' source record before calling Document Writer. If this report (RETAIL-INV, RETAIL-INV-2, RETAIL-INV-FX, RETAIL-INV-FX-2) is re-created as a modified version (swap), then the data layout may be accessed as follows: -

Field #	Data
Transaction Line Detail (multi valued), Invoice Currency e.g. Local or Forex	
1,n	Transaction Date
2,n	Description
3,n	Item Code
4,n	Quantity
5,n	Amount (inclusive)
6,n	Line Tax
7,n	Amount (exclusive)
8,n	Line Discount Amt
9,n	Serial / Batch No
10,n	* if sale and not delivered now
Transaction Line Detail (multi valued), Local Currency	
51,n	Amount (inclusive)
52,n	Line Tax
53,n	Amount (exclusive)
54,n	Line Discount Amt
Totals in Invoice Currency e.g. Local or Forex	

Make a copy - [Text Copy](#)

Search Phrase

Search the IES web on-line documentation by typing a phrase, then choose "search".

[Search](#)

Doc Key: dds-layout-05

### Slide notes

If we have another look at the Direct Data Source Layout, then we will see that Field number 23 has that Company Tax Number.

**Slide 36 - Slide 36**



**Slide notes**

Slide 37 - Slide 37

IES Client v8.29 : My IES

Help Submit Quit Functions Commands

Document

Next

Make a copy - [Text Copy](#)

Search Phrase

Search the IES web on-line documentation by typing a phrase, then choose "search". [Search](#)

10,n                   \* if sale and not delivered now

Transaction Line Detail (multi valued), Local Currency

51,n                   Amount (inclusive)

52,n                   Line Tax

53,n                   Amount (exclusive)

54,n                   Line Discount Amt

Totals in Invoice Currency e.g. Local or Forex

30                    Invoice Total excluding Tax

31                    Invoice Total Tax

32                    Invoice Total including Tax

65                    Prepaid Amount or Deposit

Totals in Local Currency

61                    Invoice Total excluding Tax

62                    Invoice Total Tax

63                    Invoice Total including Tax

64                    Prepaid Amount or Deposit

Other Indicators

17                    Copy (says COPY if it is a copy, else null)

18                    Invoice or Credit Note

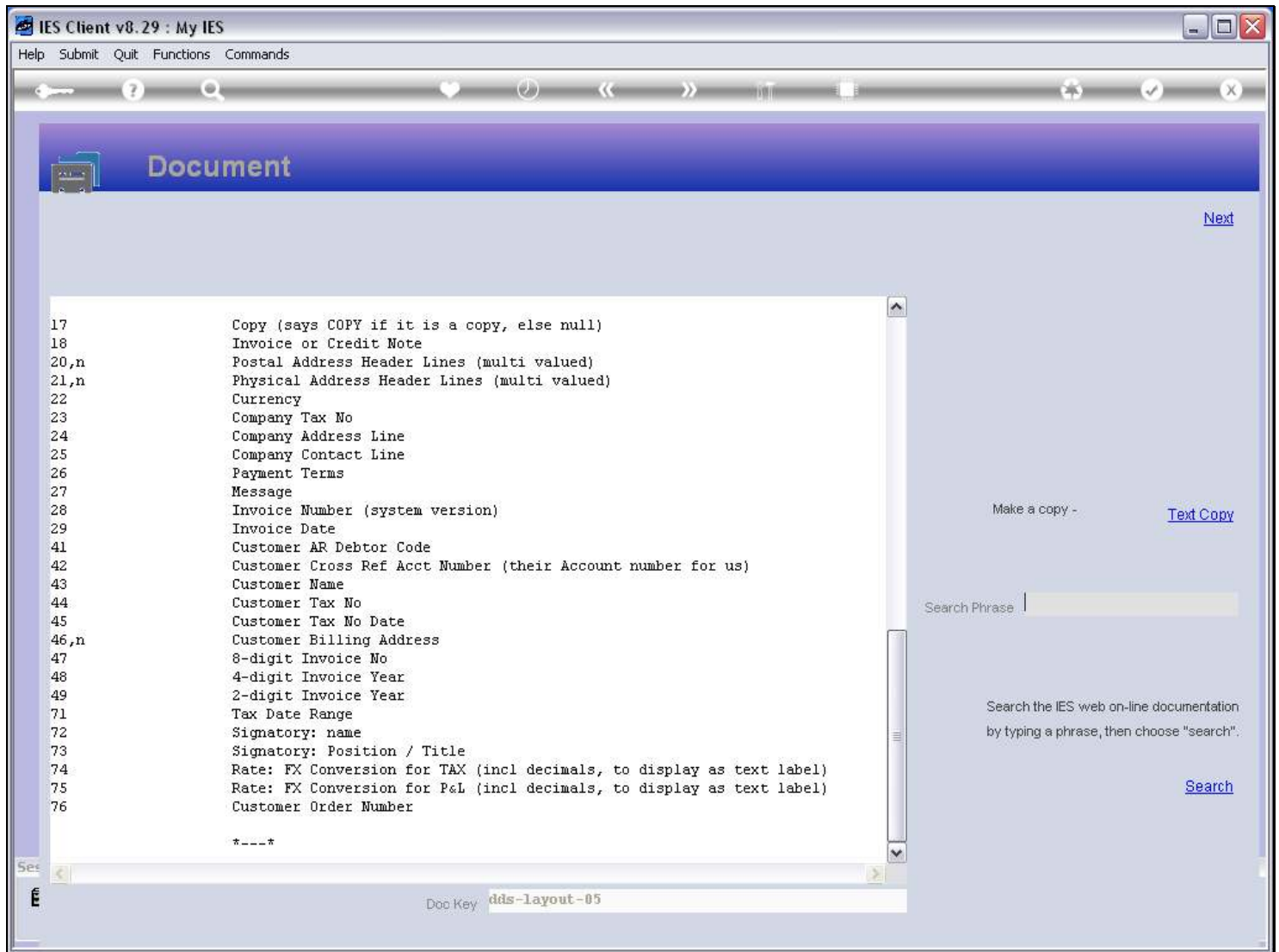
20,n                   Postal Address Header Lines (multi valued)

21,n                   Physical Address Header Lines (multi valued)

22                    Currency

Doc Key dds-layout-05

Slide notes

**Slide 38 - Slide 38****Slide notes**

And here it is.

## Slide 39 - Slide 39

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 "Commands". The toolbar contains icons for a key, help, search, heart, clock, left arrow, right arrow, printer, and a checkmark. The main window has a blue header bar with the word "Document" and a "Next" link. The central area is divided into two panes. The left pane contains a list of fields with line numbers 17 through 76:

- 17 Copy (says COPY if it is a copy, else null)
- 18 Invoice or Credit Note
- 20,n Postal Address Header Lines (multi valued)
- 21,n Physical Address Header Lines (multi valued)
- 22 Currency
- 23 Company Tax No
- 24 Company Address Line
- 25 Company Contact Line
- 26 Payment Terms
- 27 Message
- 28 Invoice Number (system version)
- 29 Invoice Date
- 41 Customer AR Debtor Code
- 42 Customer Cross Ref Acct Number (their Account number for us)
- 43 Customer Name
- 44 Customer Tax No
- 45 Customer Tax No Date
- 46,n Customer Billing Address
- 47 8-digit Invoice No
- 48 4-digit Invoice Year
- 49 2-digit Invoice Year
- 71 Tax Date Range
- 72 Signatory: name
- 73 Signatory: Position / Title
- 74 Rate: FX Conversion for TAX (incl decimals, to display as text label)
- 75 Rate: FX Conversion for P&L (incl decimals, to display as text label)
- 76 Customer Order Number

Below the list is a line of asterisks: "\*\*\*\*\*". The right pane contains a "Make a copy -" link, a "Text Copy" link, a "Search Phrase" input field, and a "Search" link. Below the search area is a note: "Search the IES web on-line documentation by typing a phrase, then choose 'search'." The status bar at the bottom shows "Doc Key: dds-layout-05".

## Slide notes



**Slide 40 - Slide 40**

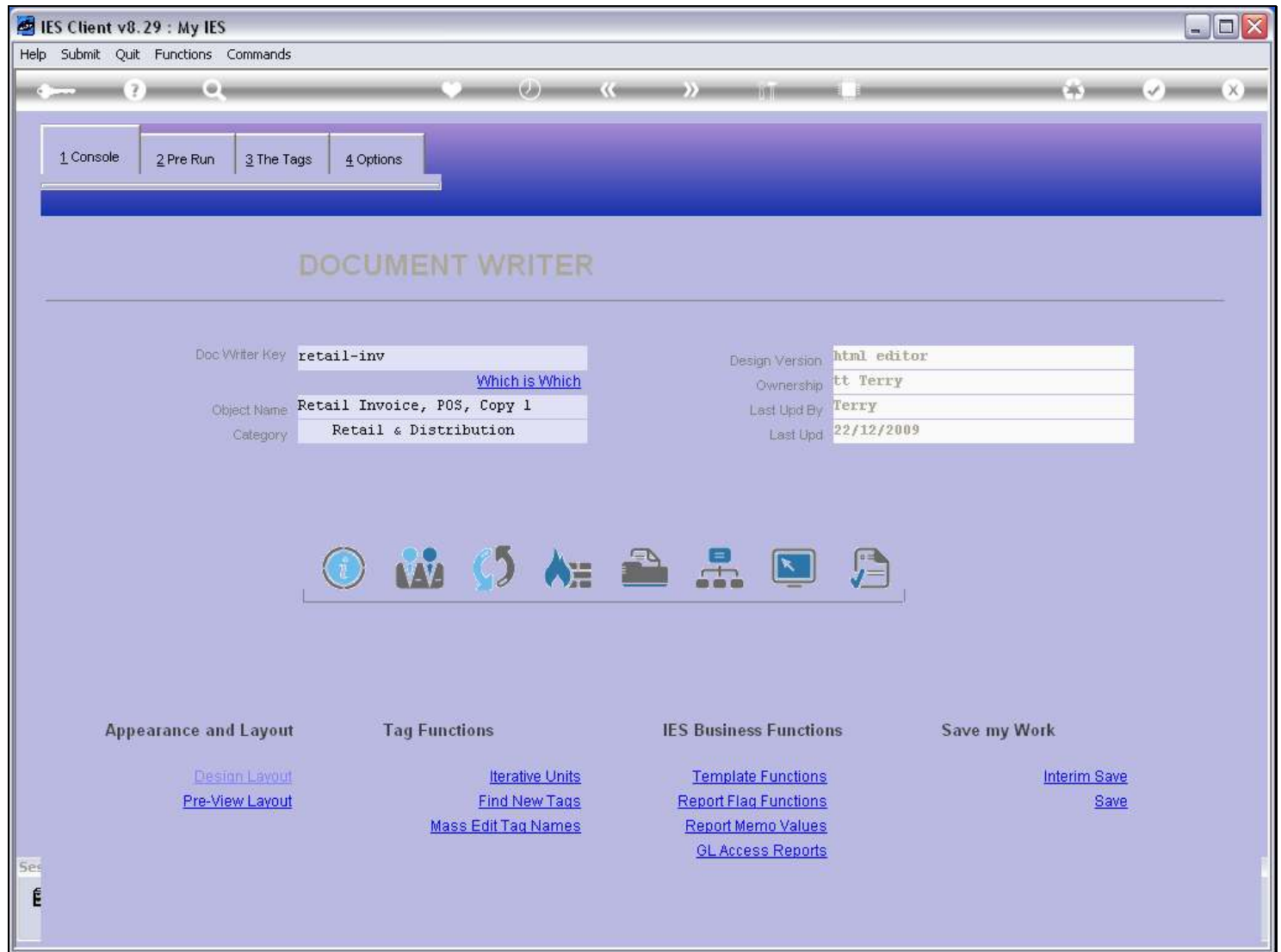
The screenshot shows the IES Client v8.29 interface. The title bar reads "IES Client v8.29 : My IES". The menu bar includes "Help", "Submit", "Quit", "Functions", and "Commands". The toolbar contains icons for a key, help, search, heart, clock, left arrow, right arrow, printer, document, refresh, checkmark, and close. The main window has a blue header bar with the word "Document" and a "Next" link. The left pane displays a list of fields with line numbers 17 through 76:

- 17 Copy (says COPY if it is a copy, else null)
- 18 Invoice or Credit Note
- 20,n Postal Address Header Lines (multi valued)
- 21,n Physical Address Header Lines (multi valued)
- 22 Currency
- 23 Company Tax No
- 24 Company Address Line
- 25 Company Contact Line
- 26 Payment Terms
- 27 Message
- 28 Invoice Number (system version)
- 29 Invoice Date
- 41 Customer AR Debtor Code
- 42 Customer Cross Ref Acct Number (their Account number for us)
- 43 Customer Name
- 44 Customer Tax No
- 45 Customer Tax No Date
- 46,n Customer Billing Address
- 47 8-digit Invoice No
- 48 4-digit Invoice Year
- 49 2-digit Invoice Year
- 71 Tax Date Range
- 72 Signatory: name
- 73 Signatory: Position / Title
- 74 Rate: FX Conversion for TAX (incl decimals, to display as text label)
- 75 Rate: FX Conversion for P&L (incl decimals, to display as text label)
- 76 Customer Order Number

Below the list is a line of asterisks: "\*\*\*\*\*". The right pane contains a "Make a copy -" link, a "Text Copy" link, a "Search Phrase" input field, and a "Search" button. Below the search area is a note: "Search the IES web on-line documentation by typing a phrase, then choose 'search'." The status bar at the bottom shows "Doc Key: dds-layout-05".

**Slide notes**

## Slide 41 - Slide 41



## Slide notes

So that is how the Metadata function is important and useful for us in our Report Writing.