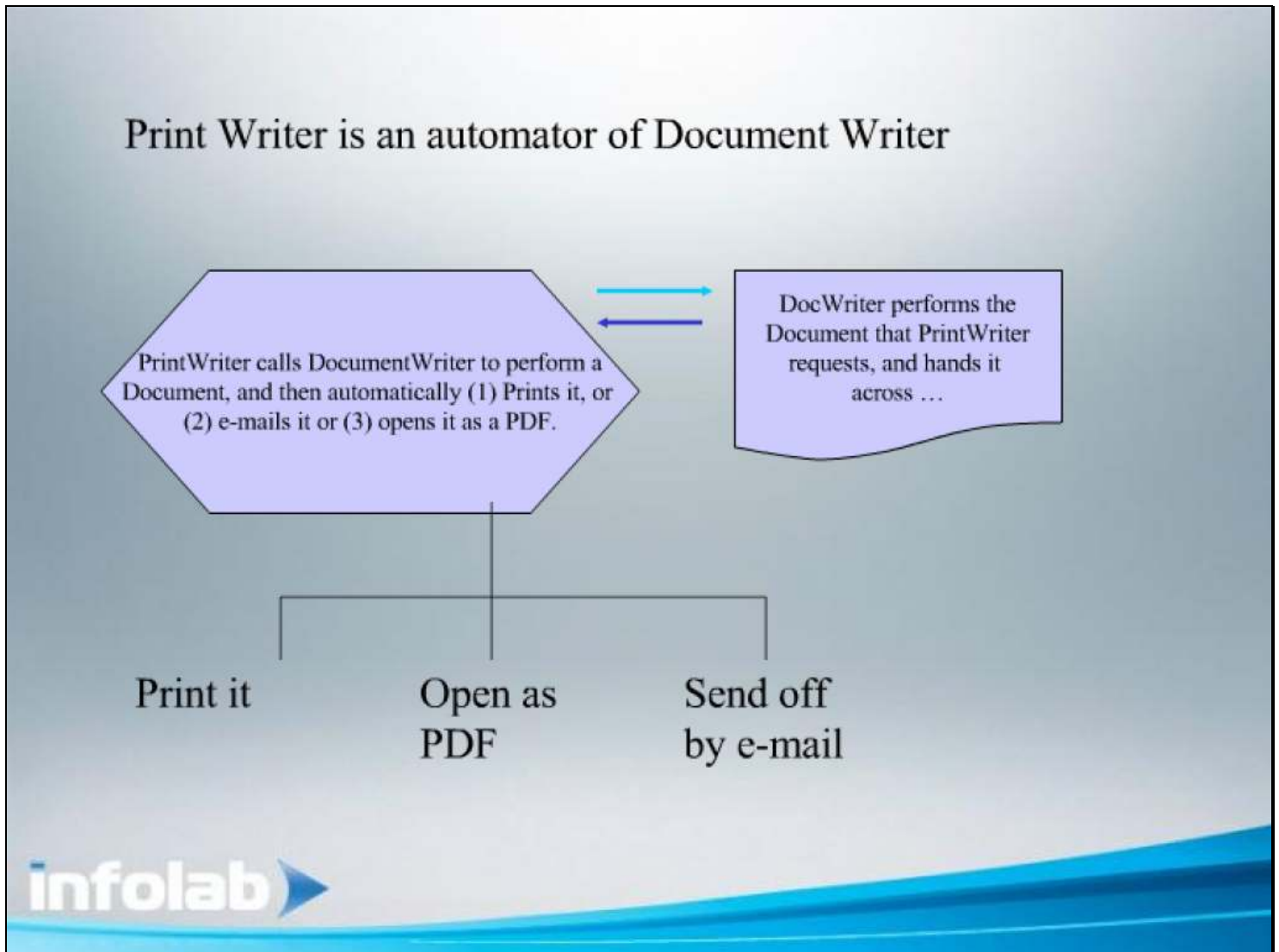


Slide 1 - Slide 1**Slide notes**

Print Writer is an automator of Document Writer, which it uses to perform a DocWriter report, then gets it back from DocWriter and Prints it, opens it as a PDF or e-mails it. In other words, whereas DocWriter will perform a Document and then usually will offer an Open option to the User, it now gives it back to PrintWriter to automatically perform the designated action.

Slide 2 - Slide 2

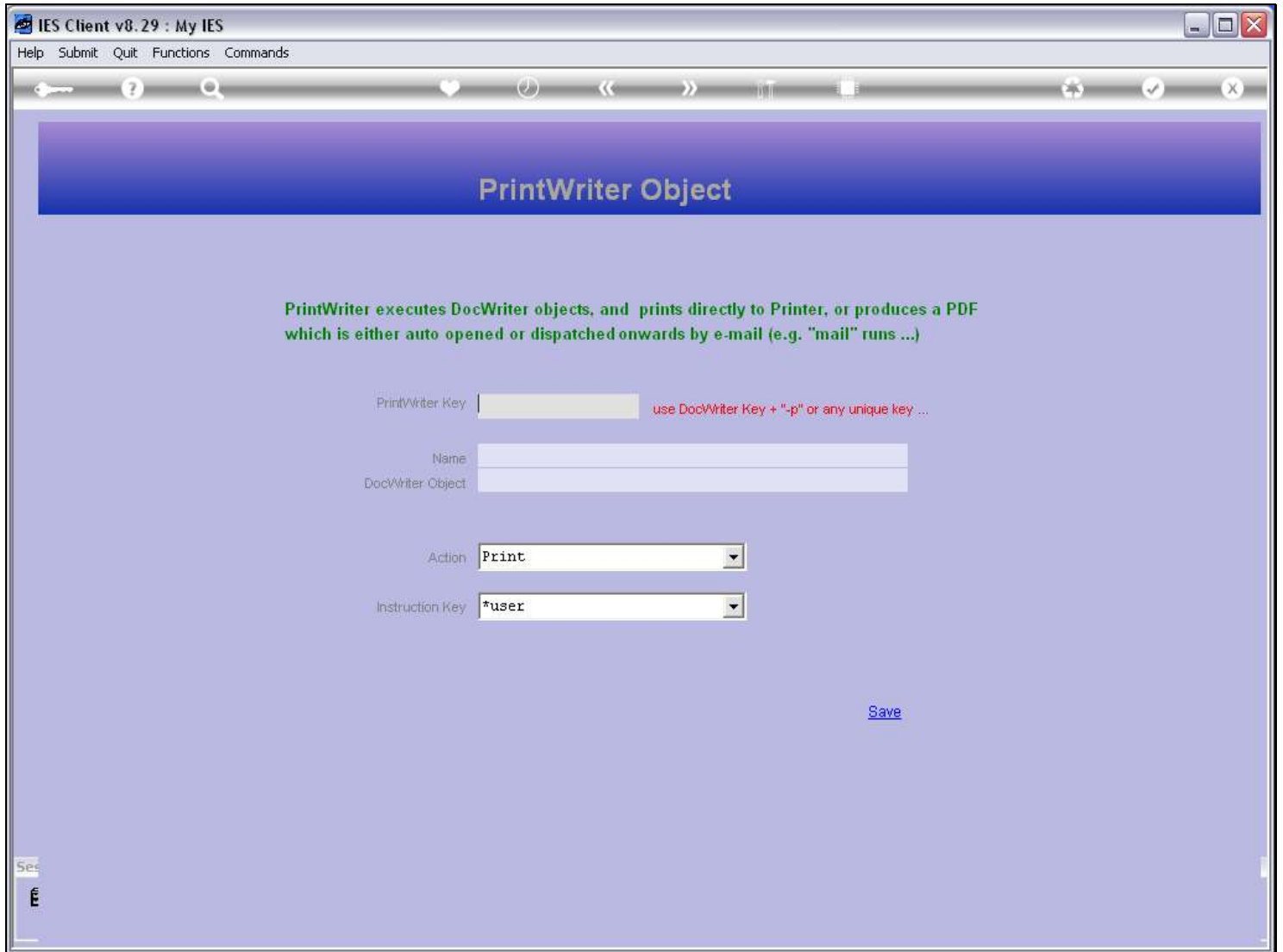
The screenshot displays the IES Client v8.29 interface. The title bar reads "IES Client v8.29 : My IES". The menu bar includes: Help, Infolab, Connections, Logon, Logoff, Companion, Wizard, How do I, DataMarts, Business Modules, Action Focus, and Option Select. The main content area is titled "System Business Objects" and features a blue header bar. Below the header, there is a text block: "Business Objects are the elements that we put together intelligently to produce a great system ...". To the right of this text is a "Knowledge Base" link with a puzzle piece icon. Further right is a 3D cube graphic composed of many small images. Below this, there are six categories of objects, each with a puzzle piece icon and a list of links:

- Report Writing:**
 - [DocWriter](#)
 - [QuickWriter](#)
 - [PrintWriter](#)
 - [Other Options](#)
- Primary Objects:**
 - [Objects](#)
 - [Actions](#)
 - [Periodic Updates](#)
 - [Data Imports](#)
- Most Popular Objects:**
 - [Dictionaries](#)
 - [Screens](#)
 - [Files](#)
 - [Menus](#)
 - [Data Selectors](#)
- Reports:**
 - [Object Reports](#)
 - [Dev Reports](#)
- Programs and Coding:**
 - [Programs](#)
- Custom Options:**
 - [Custom Options](#)

Slide notes

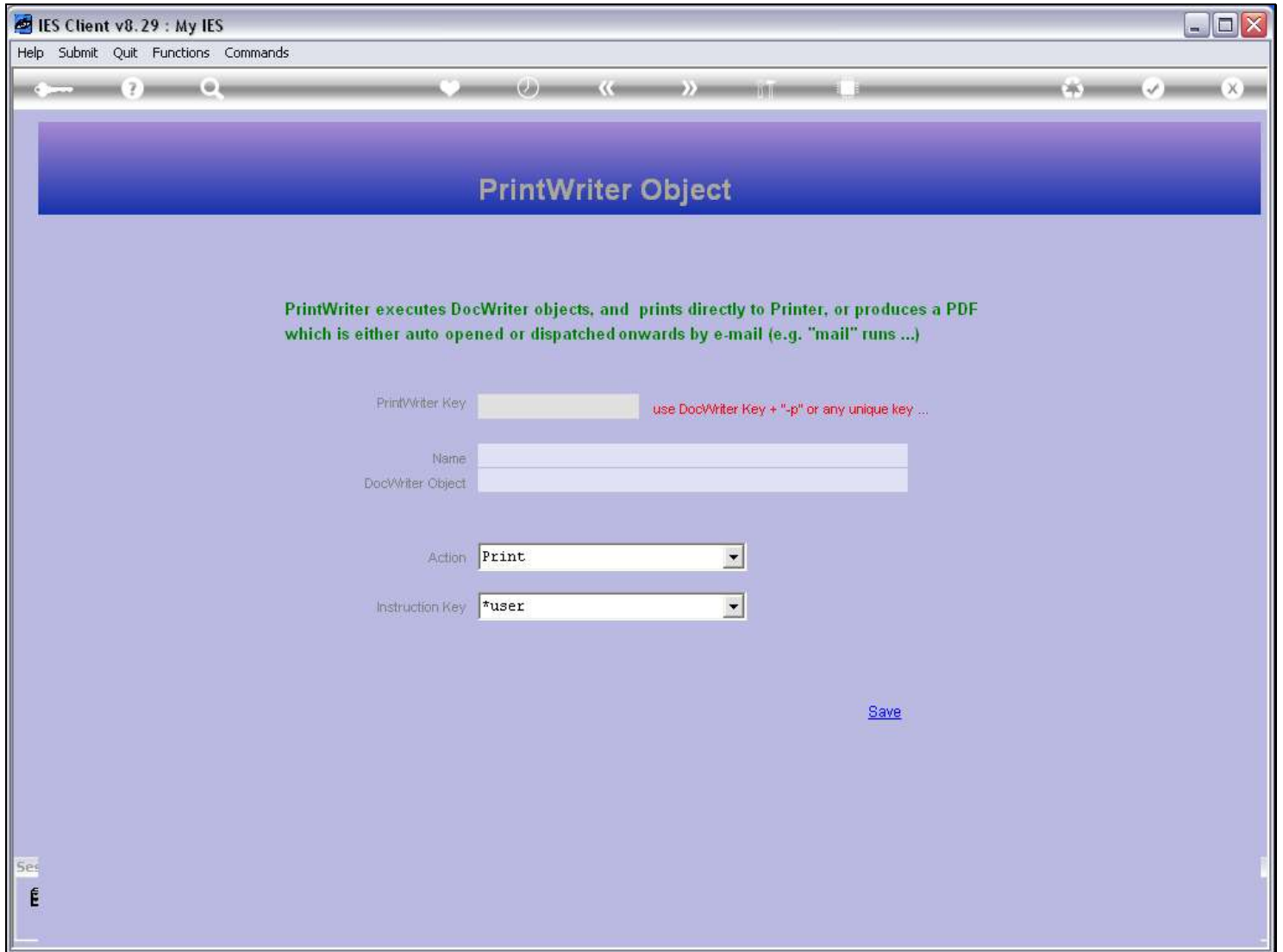
We define our PrintWriter objects at the Report Writing menu.

Slide 3 - Slide 3



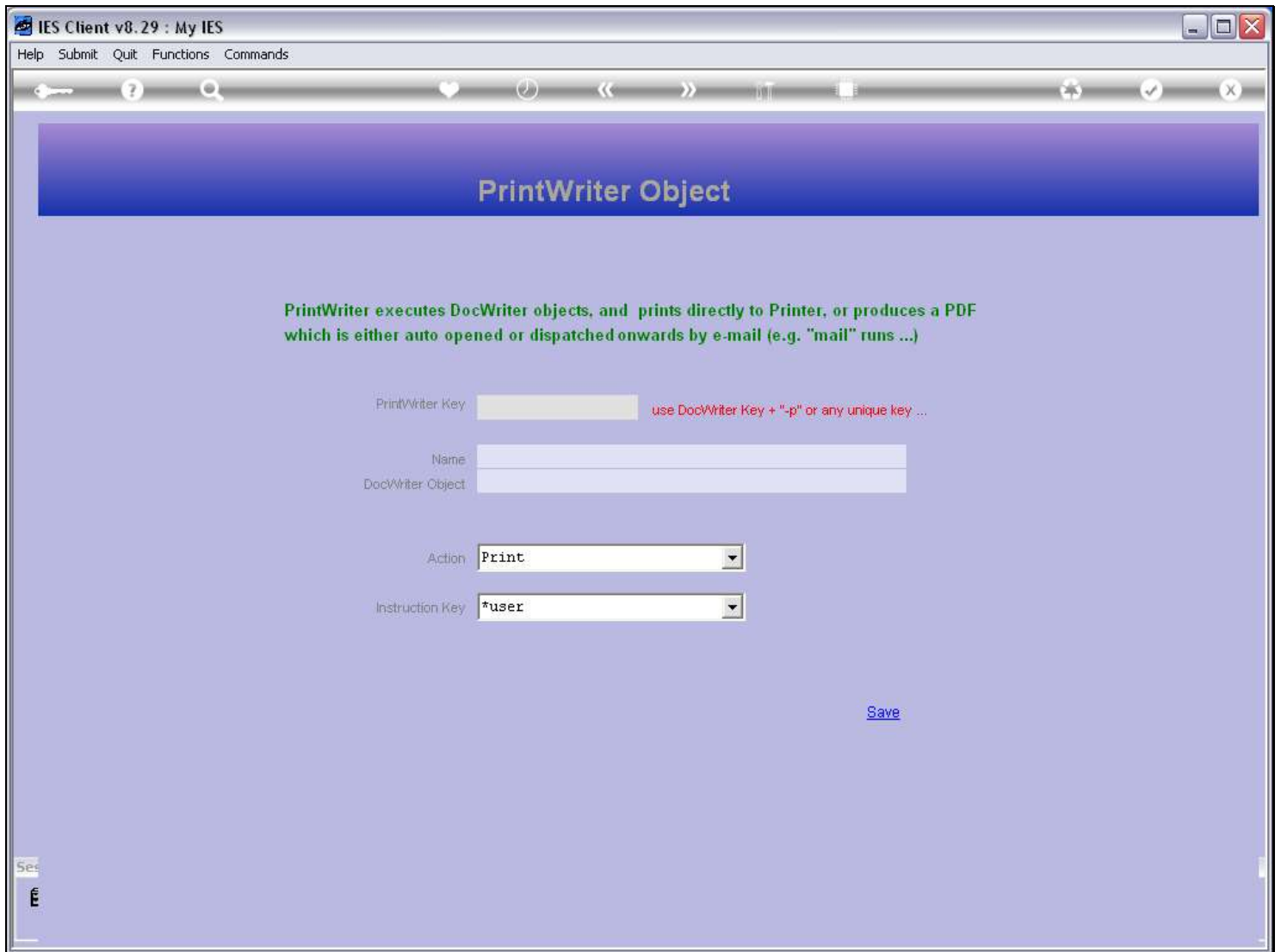
Slide notes

Slide 4 - Slide 4



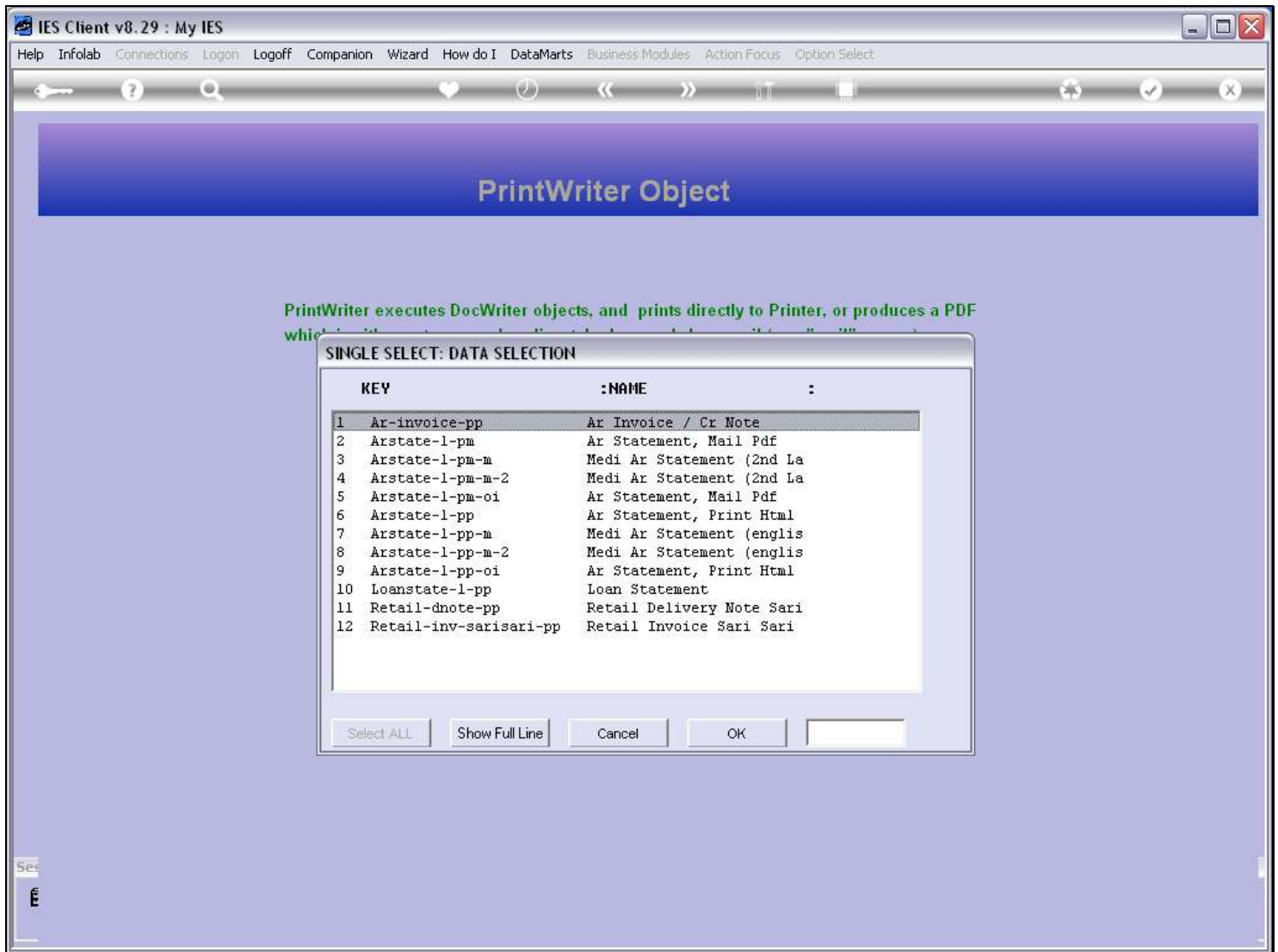
Slide notes

Slide 5 - Slide 5



Slide notes

Slide 6 - Slide 6



Slide notes

And we will use an existing object as our sample to explain the PrintWriter object.

Slide 7 - Slide 7

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 home, help, search, heart, clock, left arrow, right arrow, printer, document, refresh, checkmark, and close. The main content area has a blue header with the text "PrintWriter Object". Below the header, a green text block states: "PrintWriter executes DocWriter objects, and prints directly to Printer, or produces a PDF which is either auto opened or dispatched onwards by e-mail (e.g. "mail" runs ...)". The configuration fields are as follows:

PrintWriter Key	arstate-1-pm	use DocWriter Key + "-p" or any unique key ...
Name	AR Statement, mail PDF	
DocWriter Object	arstate-1 AR Debtor Statement - English	
Action	MailPDF	
Instruction Key	*port	

A "Save" button is located at the bottom right of the form area.

Slide notes

For the sake of easy recognition and management, we recommend to use the same Key as the DocWriter Key that will be executed, and then append it by '-p' or some other indicator, as required.

Slide 8 - Slide 8

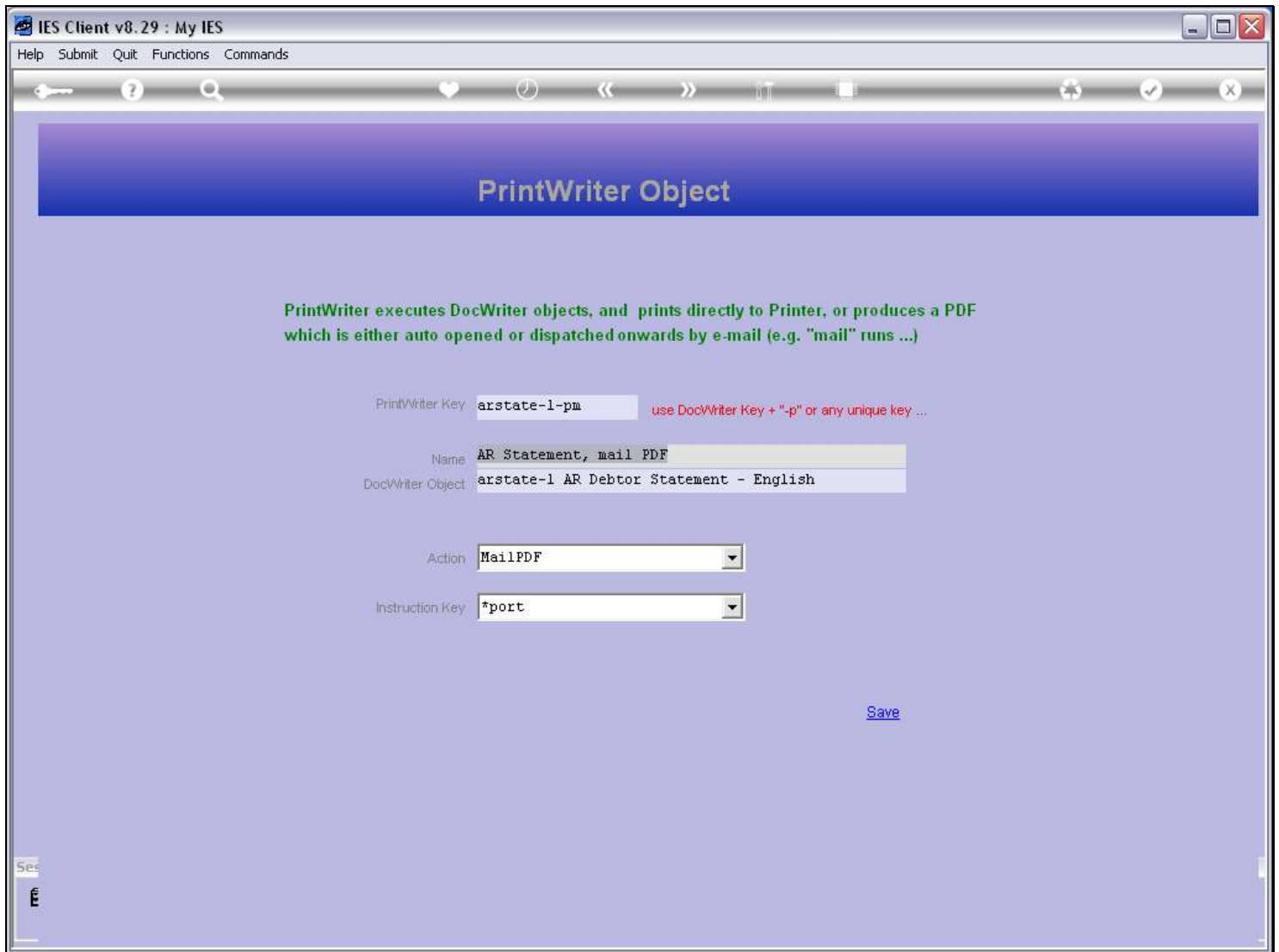
The screenshot shows the IES Client v8.29 interface. The title bar reads "IES Client v8.29 : My IES". The menu bar includes "Help", "Submit", "Quit", "Functions", and "Commands". The toolbar contains icons for home, help, search, heart, clock, back, forward, print, refresh, check, and close. The main content area has a blue header with the text "PrintWriter Object". Below the header, a green text block states: "PrintWriter executes DocWriter objects, and prints directly to Printer, or produces a PDF which is either auto opened or dispatched onwards by e-mail (e.g. "mail" runs ...)". The configuration fields are as follows:

PrintWriter Key	arstate-1-pm	use DocWriter Key + "-p" or any unique key ...
Name	AR Statement, mail PDF	
DocWriter Object	arstate-1 AR Debtor Statement - English	
Action	MailPDF	
Instruction Key	*port	

A "Save" button is located at the bottom right of the form area.

Slide notes

Of course, there is always a Name to recognize the object by.

Slide 9 - Slide 9**Slide notes**

And we have to specify the DocWriter target object. When we look at this one, and then at the Key at the top, then we can see that we are using the same key at the top, with some extension.

Slide 10 - Slide 10

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 content area has a blue header with the text "PrintWriter Object". Below the header, a green text block states: "PrintWriter executes DocWriter objects, and prints directly to Printer, or produces a PDF which is either auto opened or dispatched onwards by e-mail (e.g. "mail" runs ...)". The configuration fields are: "PrintWriter Key" with the value "arstate-l-pm" and a red note "use DocWriter Key + '-p' or any unique key ..."; "Name" with the value "AR Statement, mail PDF"; "DocWriter Object" with the value "arstate-l"; "Action" with a dropdown menu showing "MailPDF"; and "Instruction Key" with a dropdown menu showing "*port". A "Save" button is located at the bottom right of the form area.

PrintWriter Object

PrintWriter executes DocWriter objects, and prints directly to Printer, or produces a PDF which is either auto opened or dispatched onwards by e-mail (e.g. "mail" runs ...)

PrintWriter Key use DocWriter Key + "-p" or any unique key ...

Name

DocWriter Object

Action

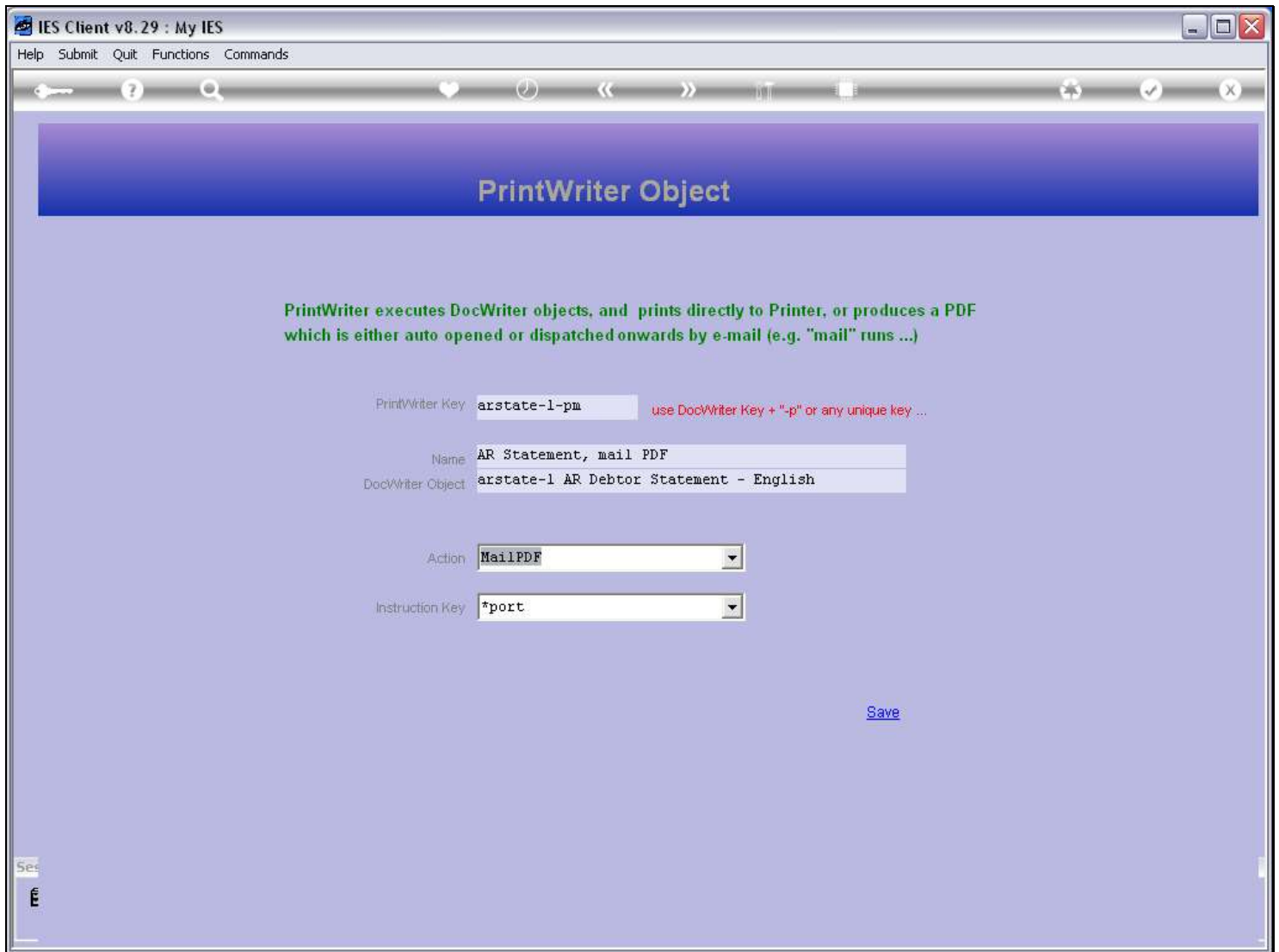
Instruction Key

[Save](#)

Slide notes

PrintWriter automates 1 of 3 possible actions on a DocWriter report.

Slide 11 - Slide 11



Slide notes

Slide 12 - Slide 12

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 home, help, search, heart, clock, back, forward, print, refresh, checkmark, and close. The main content area has a blue header with the text "PrintWriter Object". Below the header, there is a green text block: "PrintWriter executes DocWriter objects, and prints directly to Printer, or produces a PDF which is either auto opened or dispatched onwards by e-mail (e.g. "mail" runs ...)". The configuration fields are as follows:

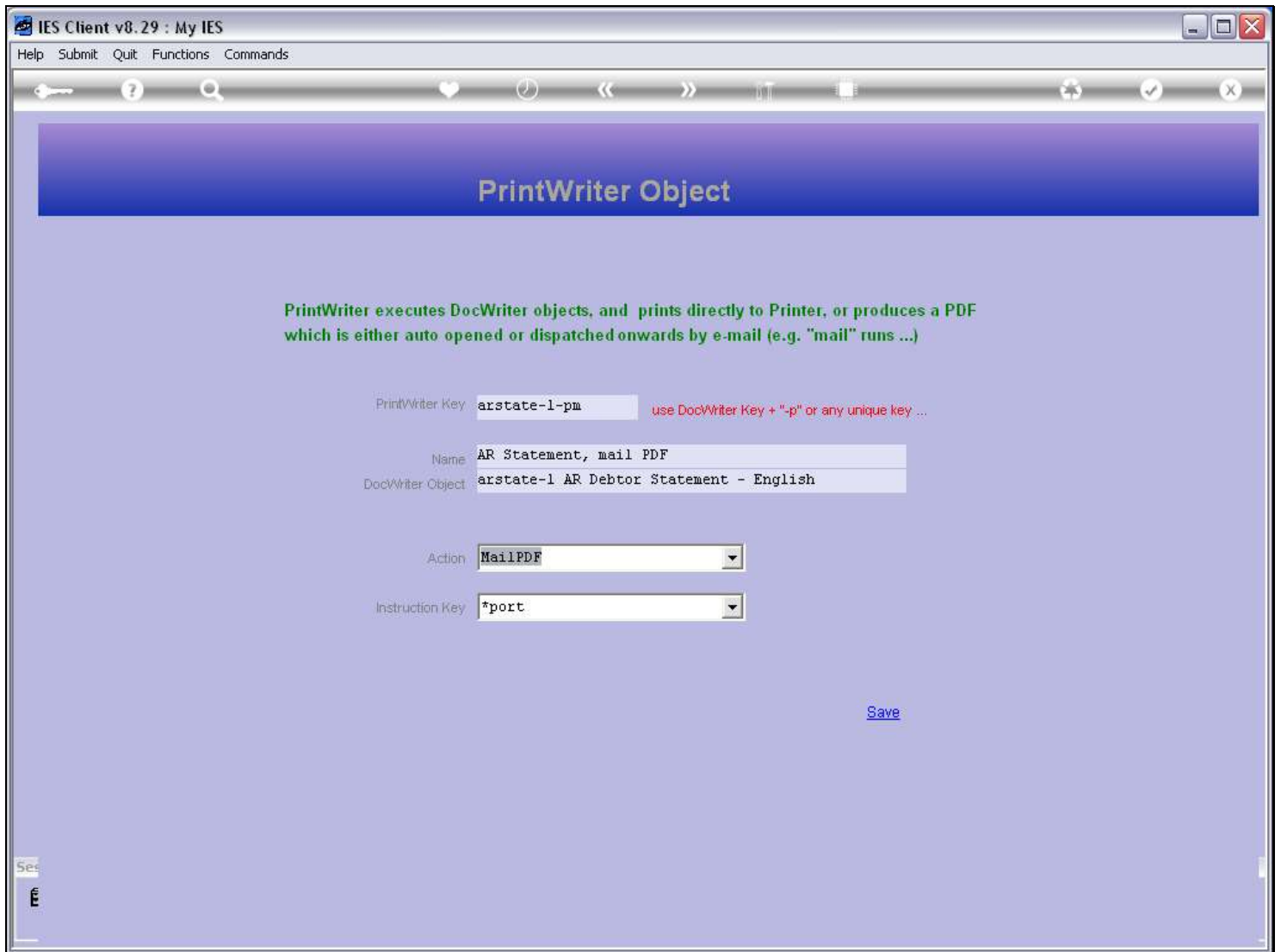
PrintWriter Key	arstate-l-pm	use DocWriter Key + "-p" or any unique key ...
Name	AR Statement, mail PDF	
DocWriter Object	arstate-l AR Debtor Statement - English	
Action	MailPDF	
Instruction Key	Print OpenPDF MailPDF	

[Save](#)

Slide notes

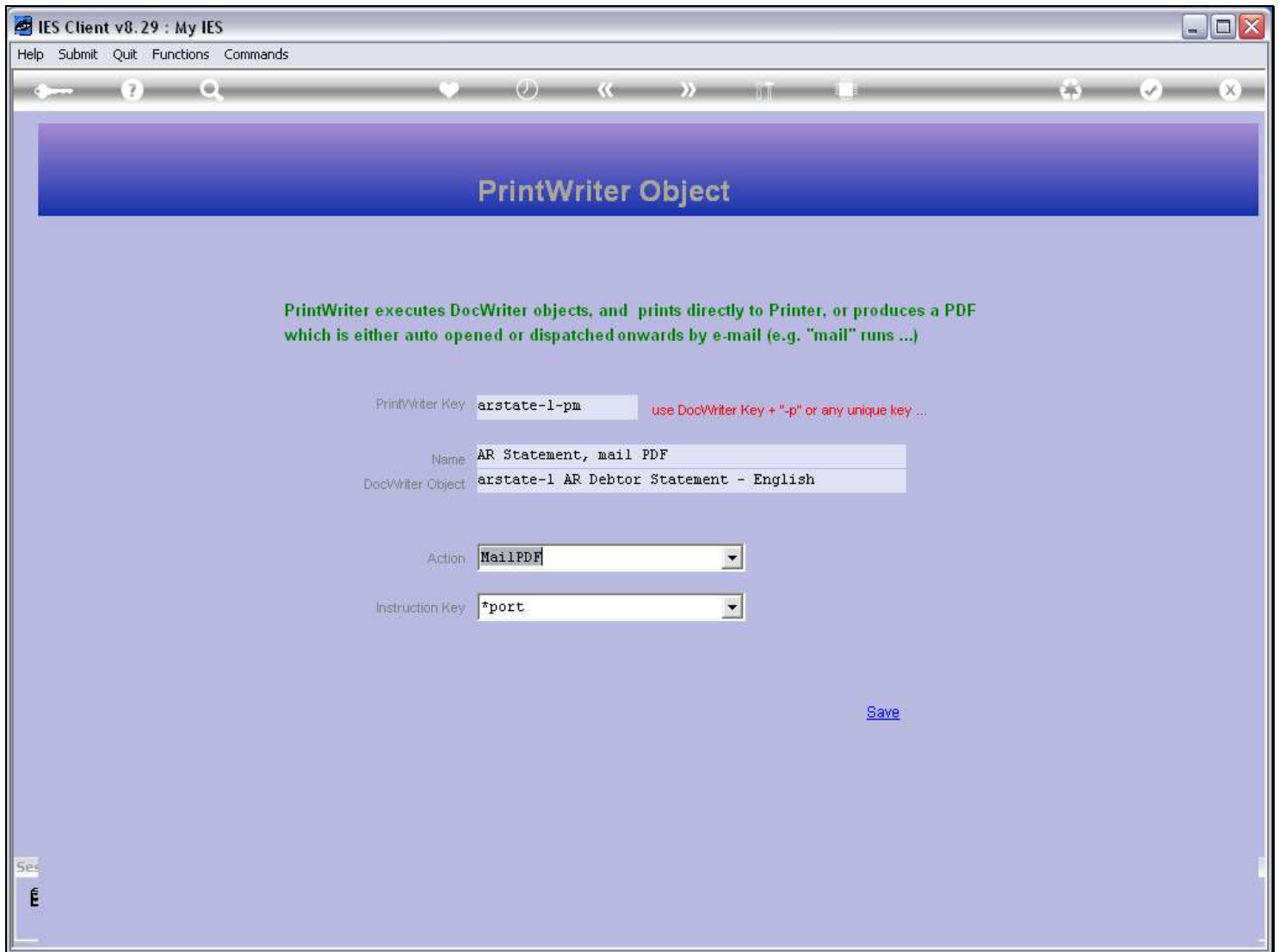
It can automatically send the Report to a Printer, or make a PDF document from the html and then either open it or else send it off automatically by e-mail.

Slide 13 - Slide 13



Slide notes

Slide 14 - Slide 14



Slide notes

Slide 15 - Slide 15

The screenshot shows a window titled "IES Client v8.29 : My IES" with a menu bar (Help, Submit, Quit, Functions, Commands) and a toolbar. The main content area is titled "Document" and displays help text for the "PrintWriter" function. The text includes a definition of the current process, a list of actions (Send to Printer, Open PDF, e-mail PDF), a function description, a caution, and a detailed description of the PrintWriter key. On the right side, there is a "Next" link, a "Make a copy -" button with a "Text Copy" link, a search box labeled "Search Phrase", and a "Search" button. At the bottom, a "Doc Key" field contains the text "tt*userdirect".

IES Client v8.29 : My IES
Help Submit Quit Functions Commands

Document

Next

CURRENT PROCESS = [PRINTWRITES] PRINT WRITER

The function of PrintWriter is to execute a DocWriter report object and then perform 1 of the following actions on the result: -

- a) Send to Printer
- b) Open PDF
- c) e-mail PDF

Function

Define PrintWriter models.

Caution

None.

Description

PrintWriter executes DocWriter objects, and is used to automatically (a) send a DocWriter result to a Printer, (b) create a PDF and open it or (c) create a PDF and send it on via e-mail.

A PrintWriter Key may be the same as the DocWriter object it executes, but may also be entirely different, since multiple PrintWriter objects may be applied to execute the same DocWriter object in different ways. Also, each key in the Menu Process Library is unique, so if the DocWriter Key is already there, then the PrintWriter will have to be different. Therefore, please devise the Key per your requirements.

Make a copy - [Text Copy](#)

Search Phrase

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

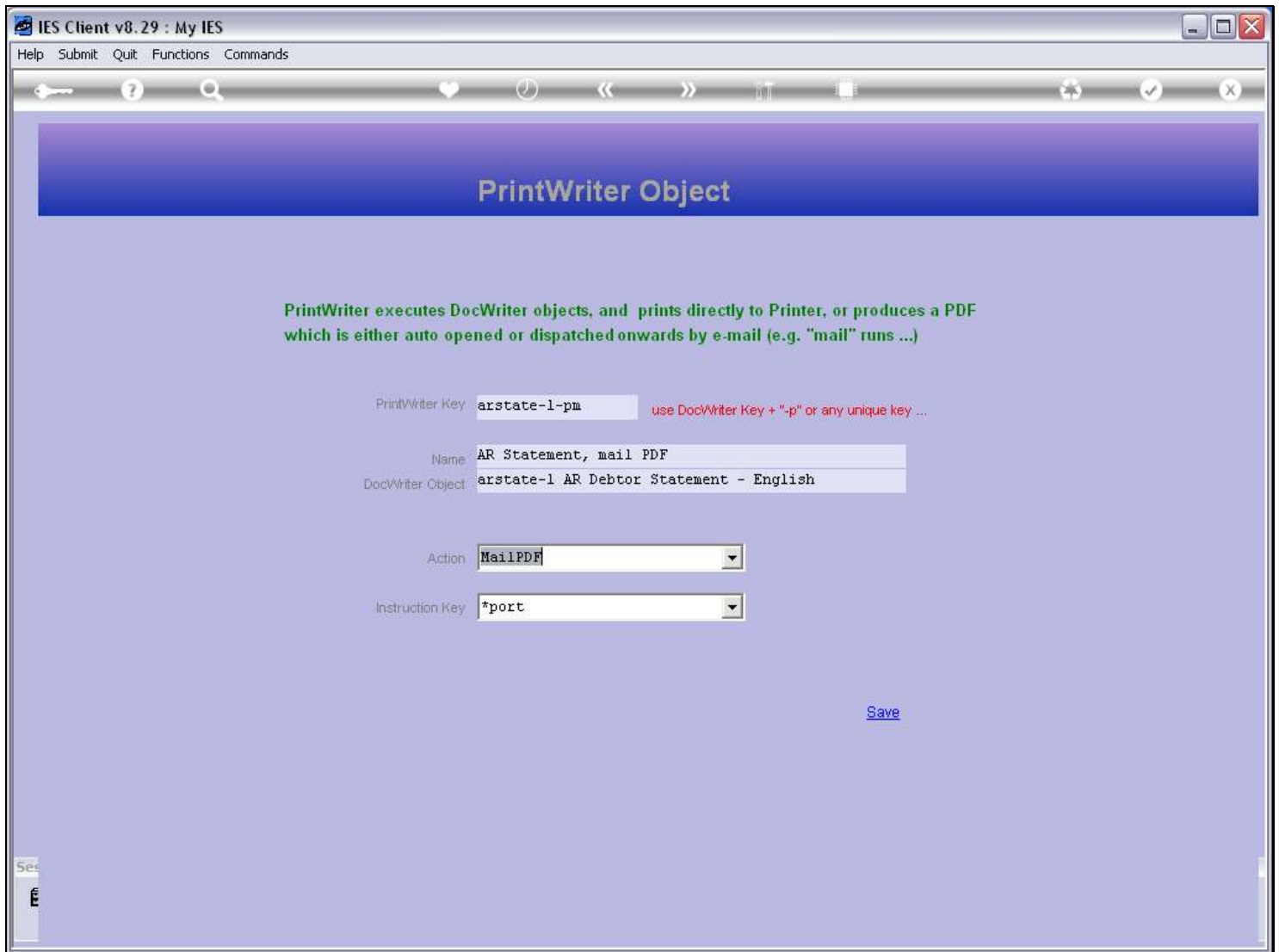
[Search](#)

Doc Key tt*userdirect

Slide notes

Here is the help.

Slide 16 - Slide 16



Slide notes

Slide 17 - Slide 17

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 home, help, search, heart, clock, left arrow, right arrow, printer, document, refresh, checkmark, and close. The main content area has a blue header with the text "PrintWriter Object". Below the header, there is a green text block: "PrintWriter executes DocWriter objects, and prints directly to Printer, or produces a PDF which is either auto opened or dispatched onwards by e-mail (e.g. "mail" runs ...)". The configuration fields are as follows:

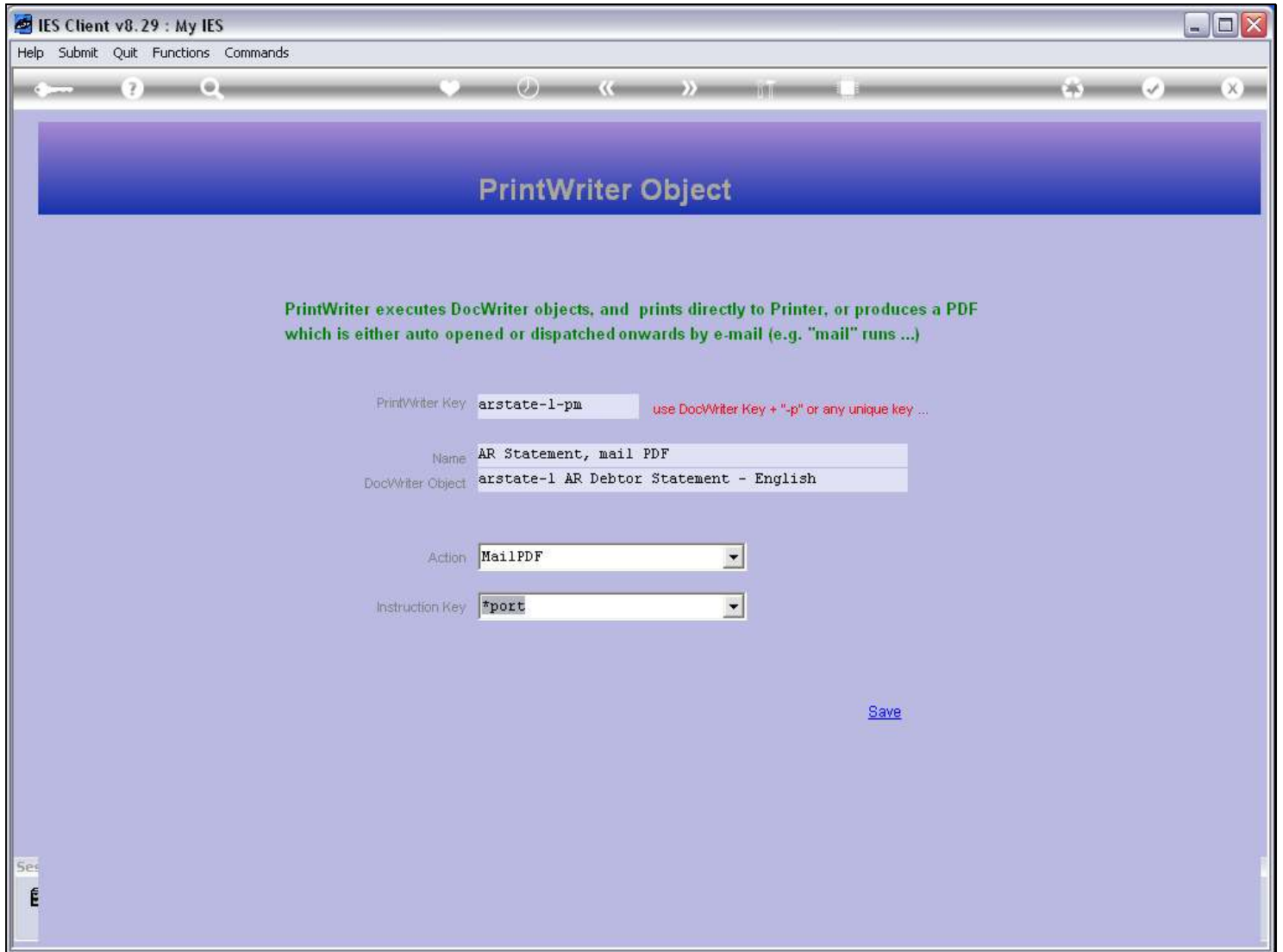
PrintWriter Key	arstate-1-pm	use DocWriter Key + "-p" or any unique key ...
Name	AR Statement, mail PDF	
DocWriter Object	arstate-1 AR Debtor Statement - English	
Action	MailPDF	
Instruction Key	*port	

At the bottom right of the form, there is a blue "Save" link. In the bottom left corner, there is a small "See" label and a "E" icon.

Slide notes

The Instruction Key is only relevant if the Action in the previous prompt is 'e-mail'.

Slide 18 - Slide 18



Slide notes

Slide 19 - Slide 19

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 content area has a blue header with the text "PrintWriter Object". Below the header, a green text block states: "PrintWriter executes DocWriter objects, and prints directly to Printer, or produces a PDF which is either auto opened or dispatched onwards by e-mail (e.g. "mail" runs ...)". The configuration fields are as follows:

- PrintWriter Key: use DocWriter Key + "-p" or any unique key ...
- Name:
- DocWriter Object:
- Action:
- Instruction Key:

A [Save](#) button is located at the bottom right of the form area.

Slide notes

Slide 20 - Slide 20

IES Client v8.29 : My IES

Help Submit Quit Functions Commands

Document

[Next](#)

```

CURRENT PROCESS = [PRINTWRITES] PRINT WRITER

This value is NOT used for: -
a) when sent to Printer
b) for opening a PDF

but it is ESSENTIAL for: -
c) e-mailing a PDF

When the ACTION selected is 'e-mail PDF', then the system needs instructions
for the e-mail address, filename to attach, etc. This ACTION is typically used
for 'mail runs' where the same DocWriter object is executed again and again
for different results. For example, a monthly statement run, where Customers
who elect to receive their statements by e-mail can automatically be mailed
with a PDF Statement. In this case, the program that performs the statements
will call the PrintWriter process each time a statement is to be mailed by
PDF, but it will be for a different Customer each time. Therefore, a record
must be written to "docwritespre" either with PORT or current USERCODE as the
Key, from which the system will pick up required parameters. The DocWriter object
may already be using a record on "docwritespre" with either the PORT or USERCODE
as the Key, therefore, you may choose here which Key to use, i.e. not to clash
with a Key already in use by the DocWriter object that will be executed by the
PrintWriter.

The Record to be written to "docwritespre" must have the following information:

field 1: e-mail address
field 2: e-mail title

```

Make a copy - [Text Copy](#)

Search Phrase

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

[Search](#)

Doc Key tt*userdirect

Slide notes

The Help explains it the same, just a fuller explanation.

Slide 21 - Slide 21

The screenshot shows a web browser window titled "IES Client v8.29 : My IES". The browser's address bar is empty, and the page title is "Document". The main content area displays the following text:

```
CURRENT PROCESS = [PRINTWRITES] PRINT WRITER
```

This value is NOT used for: -

- a) when sent to Printer
- b) for opening a PDF

but it is ESSENTIAL for: -

- c) e-mailing a PDF

When the ACTION selected is 'e-mail PDF', then the system needs instructions for the e-mail address, filename to attach, etc. This ACTION is typically used for 'mail runs' where the same DocWriter object is executed again and again for different results. For example, a monthly statement run, where Customers who elect to receive their statements by e-mail can automatically be mailed with a PDF Statement. In this case, the program that performs the statements will call the PrintWriter process each time a statement is to be mailed by PDF, but it will be for a different Customer each time. Therefore, a record must be written to "docwritespre" either with PORT or current USERCODE as the Key, from which the system will pick up required parameters. The DocWriter object may already be using a record on "docwritespre" with either the PORT or USERCODE as the Key, therefore, you may choose here which Key to use, i.e. not to clash with a Key already in use by the DocWriter object that will be executed by the PrintWriter.

The Record to be written to "docwritespre" must have the following information:

```
field 1: e-mail address
field 2: e-mail title
```

At the bottom of the document area, there is a "Doc Key" field containing the text "tt*userdirect".

On the right side of the page, there is a "Next" link at the top, a "Make a copy -" link with a "Text Copy" sub-link, a "Search Phrase" input field, and a "Search" link at the bottom.

Slide notes

Slide 22 - Slide 22

IES Client v8.29 : My IES

Help Submit Quit Functions Commands

Document

Next

CURRENT PROCESS = [PRINTWRITES] PRINT WRITER

This value is NOT used for: -

- a) when sent to Printer
- b) for opening a PDF

but it is ESSENTIAL for: -

- c) e-mailing a PDF

When the ACTION selected is 'e-mail PDF', then the system needs instructions for the e-mail address, filename to attach, etc. This ACTION is typically used for 'mail runs' where the same DocWriter object is executed again and again for different results. For example, a monthly statement run, where Customers who elect to receive their statements by e-mail can automatically be mailed with a PDF Statement. In this case, the program that performs the statements will call the PrintWriter process each time a statement is to be mailed by PDF, but it will be for a different Customer each time. Therefore, a record must be written to "docwritespre" either with PORT or current USERCODE as the Key, from which the system will pick up required parameters. The DocWriter object may already be using a record on "docwritespre" with either the PORT or USERCODE as the Key, therefore, you may choose here which Key to use, i.e. not to clash with a Key already in use by the DocWriter object that will be executed by the PrintWriter.

The Record to be written to "docwritespre" must have the following information:

- field 1: e-mail address
- field 2: e-mail title

Make a copy - [Text Copy](#)

Search Phrase

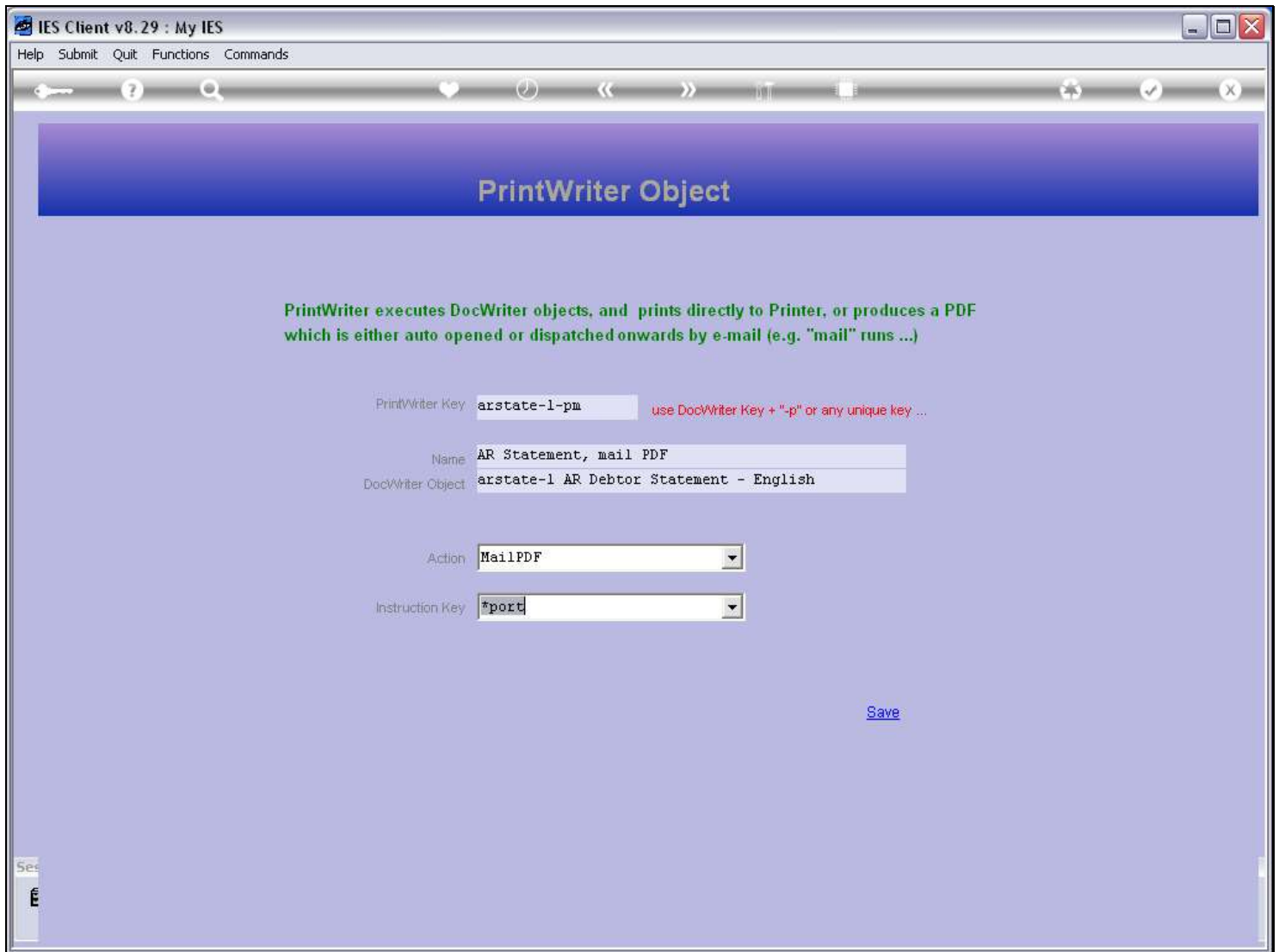
Search the IES web on-line documentation by typing a phrase, then choose "search".

[Search](#)

Doc Key tt*userdirect

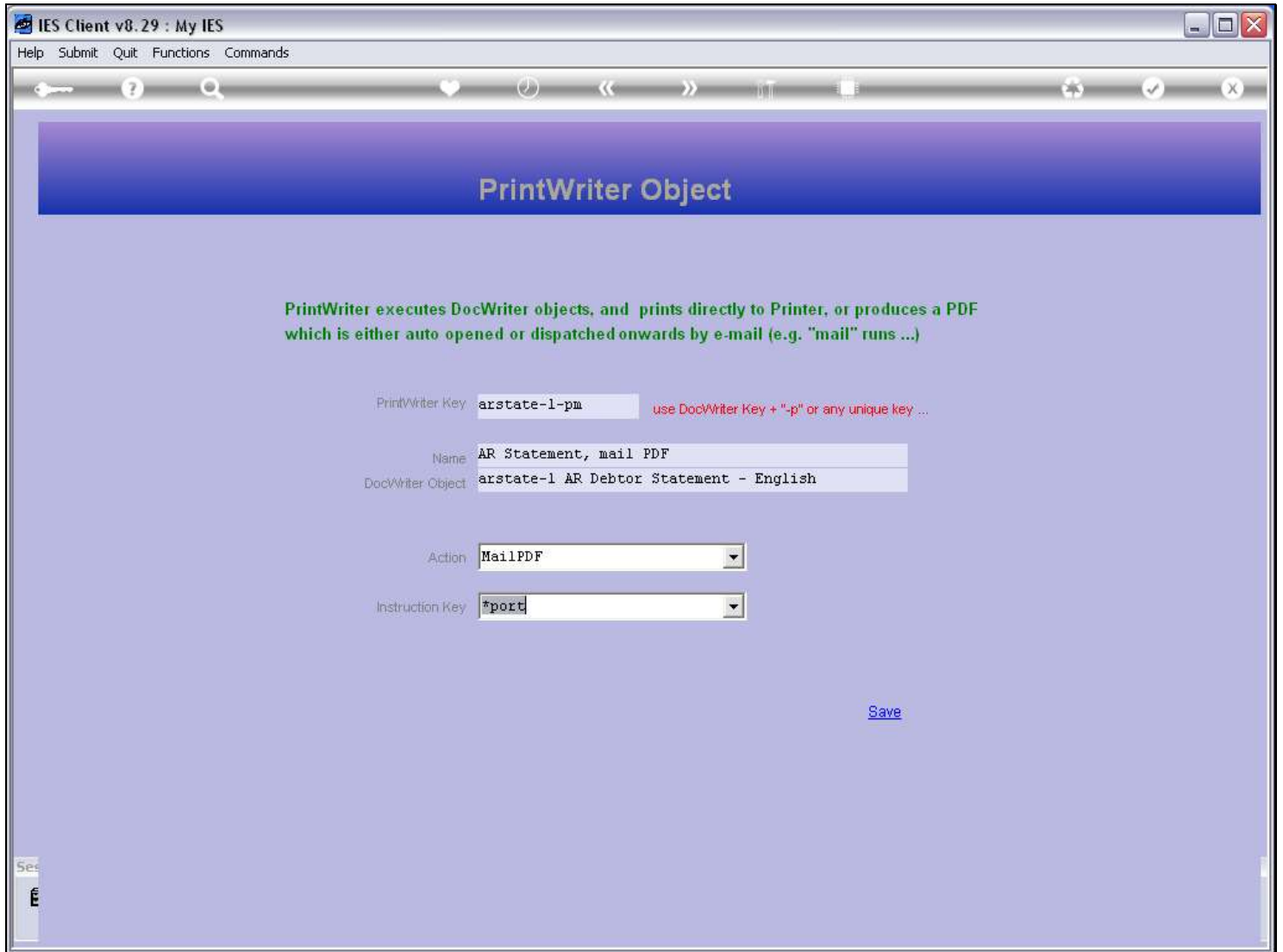
Slide notes

Slide 23 - Slide 23

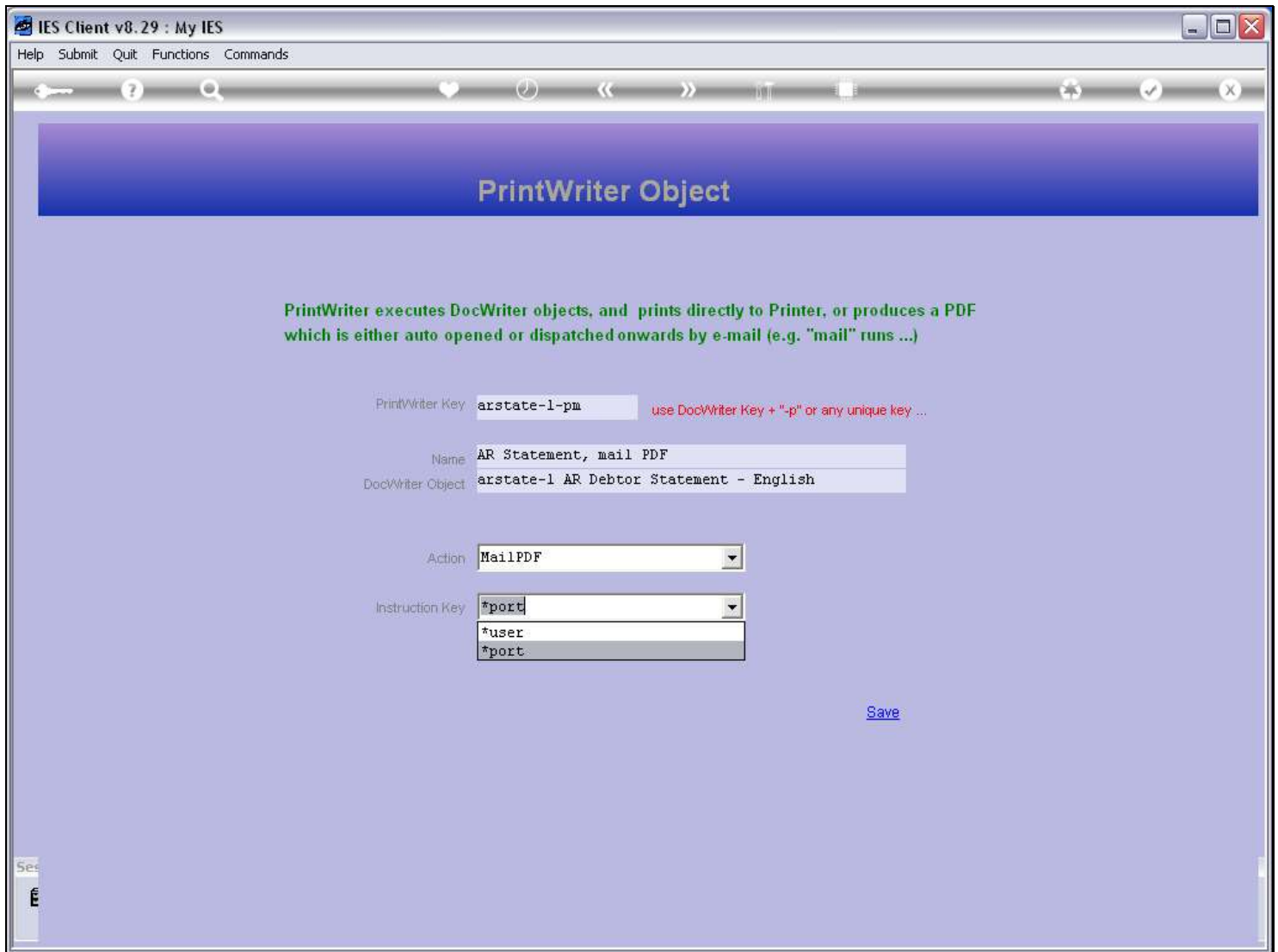


Slide notes

Slide 24 - Slide 24



Slide notes

Slide 25 - Slide 25**Slide notes**

When the action is e-mail, it is important to use the correct setting here, because DocWriter itself may be writing a record to the 'DOCWRITESPRE' file on a key of either USER or PORT. So, in that case, we must be sure to use the OTHER option here to avoid a clash. Therefore, when we use the 'e-mail' action, we will check the DocWriter object to see which of the 2 settings it is already using, and then choose the other setting here.

Slide 26 - Slide 26

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 content area has a blue header with the text "PrintWriter Object". Below the header, a green text block states: "PrintWriter executes DocWriter objects, and prints directly to Printer, or produces a PDF which is either auto opened or dispatched onwards by e-mail (e.g. "mail" runs ...)". The configuration fields are as follows:

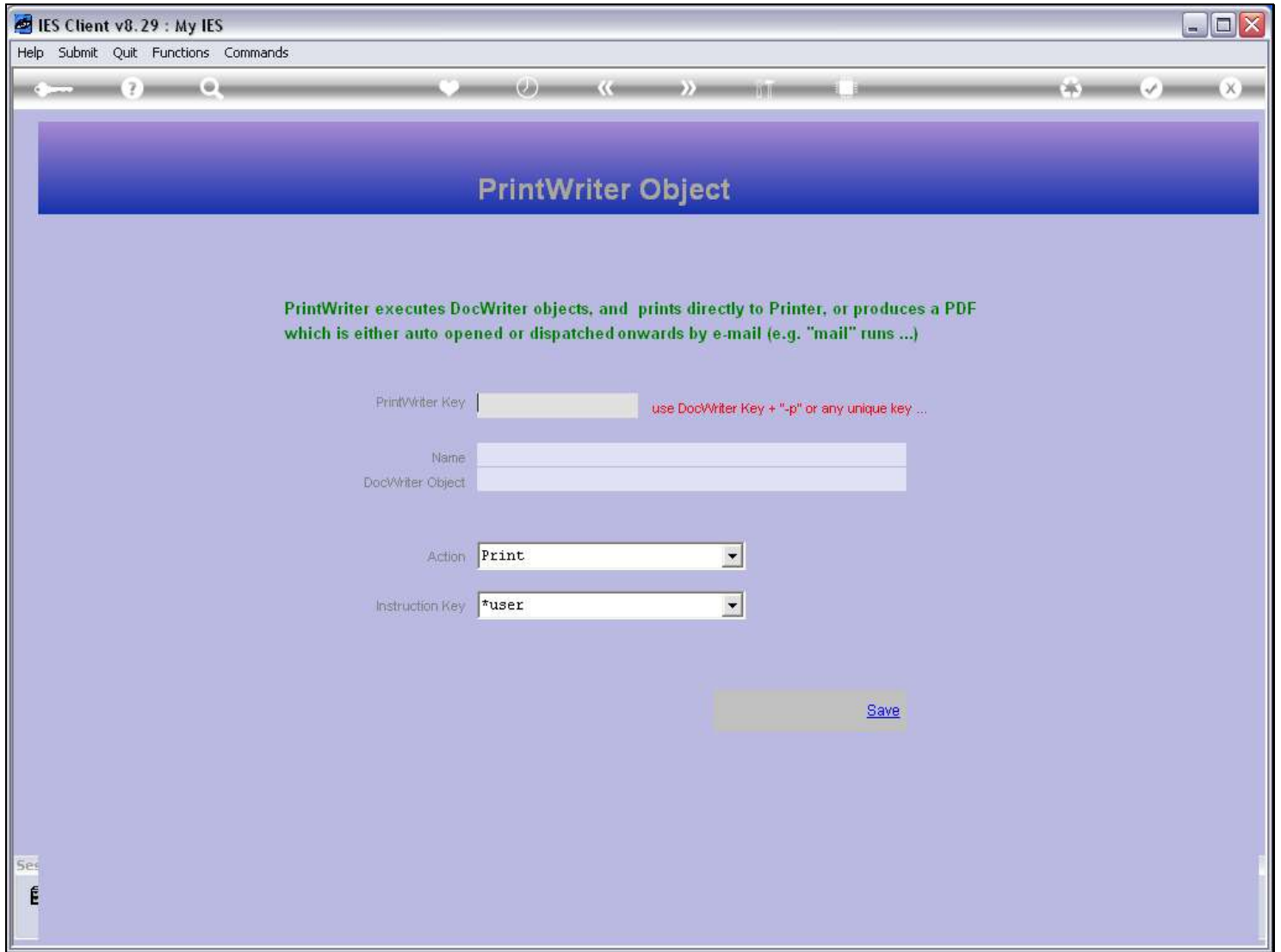
- PrintWriter Key: use DocWriter Key + "-p" or any unique key ...
- Name:
- DocWriter Object:
- Action:
- Instruction Key:

A [Save](#) button is located at the bottom right of the configuration area.

Slide notes

PrintWriter is convenient for automating a result action on execution of DocWriter Reports, and can do so en masse, for example for Customer Statement runs to be dispatched automatically by e-mail.

Slide 27 - Slide 27



Slide notes