



User Guide Version 1.0

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Preface

The complexity of the ARS applications requires increasingly onerous analysis efforts. Understanding the relationships and interdependencies between various developed objects is never easy and requires time-consuming.

This tool has the purpose to help, both junior and senior developers, in carrying out this type of activity.

Chapter 1: Introduction

This chapter provides an overview of the product. The functionalities of the tool are the following:

Relation :

- **Arsdef** – shows general information about the analyzed application
- **Form** – allows users to analyze the forms present in the application
- **Menu** - allows users to analyze the menus in the application
- **Function** – allows users to search for the ARS Functions used by the application
- **Keyword** - allows users to search for the ARS Keywords used by the application
- **Webs Exposed** – allows users to search for the exposed web service
- **Webs Called** – allows users to search for the consumed web service
- **DOS** – allows users to search for the “DSO mapping”
- **Pool** – allows users to search for the defined DSO Pools
- **Strings** – allows users to search for each hardcoded value
- **SetPush / strings** - allows users to search for strings used in the set / push field
- **Qual / strings** – allows users to search for each string in the qualification of the objects
- **Qual / Selection** - allows users to search for each string of a “selection field” in the qualification of the objects
- **Sql** – allows users to search for every sql command in the application
- **Run process** – allows users to search for every run process used by the application
- **Server** – allows users to search for the objects that refer to different servers
- **External** – allows users to search for the objects that use the external variable
- **Actlink** – allows users to search for the active links
- **Filter** – allows users to search for the filters
- **Escalation** – allows users to search for the escalations
- **Actl Guide** – allows users to search for the active link guides
- **Filt Guide** – allows users to search for the filter guides
- **Plugin** – allows users to search for the used plugins
- **Error** – allows users to search for every fallacy present in the application
- **Action** – allows users to search for the specific actions defined in the application

Diff:

- **Statistic** – compares general information about the two investigated servers
- **Not exist** – shows objects existing in one server but not in the other
- **Not Equal** – shows objects existing in both servers but having different characteristics



Figure 1 - functionality grouped



Figure 2 - functionality "relation"



Figure 3 - functionality "Diff"

Capter 2: Ardef

The feature allows you to analyze the general characteristics of the application under consideration. The reported information is relative to the time when the photograph of the application was made. Any changes you made will not be present in the tool.

➤ To use the functionality

1. Click on the link "Ardef" in the box "Relation"
2. The general data of the analyzed application are displayed

The screenshot shows the ARSurf application interface. The top bar is green and labeled 'ARSurf'. On the left, there is a 'Relation' tab selected, with a list of links including 'Ardef', 'Form', 'Menu', 'Function', 'Keyword', 'Web Exposed', 'Web Called', 'Doc', 'Pool', 'Strings', 'SelfPath / strings', 'Qual / strings', 'Qual / Selection', 'Sql', 'Run process', 'Server', 'External', 'Active', 'Filter', 'Exception', 'Act Guide', 'File Guide', 'Plugin', 'Error', 'Action', and 'Diff'. Below the 'Relation' tab, there is a table displaying application characteristics. The table has two columns: 'Server' and 'Midtier'. The data is as follows:

Server	Midtier
ServerA	
Port	5511
User	admin
StartTime	2013/09/23 17:37:18
EndTime	2013/09/23 17:43:23
ElaborationTime	363
PrintTime	10
FreeTime	1
Form	3020
Field	256270
Active Link	46662
Filter	20607
Menu	2541
Active Link Guide	3424
Filter Guide	1660
DSO	7
Webservice	53
API ver.	7.6.4
Ver	1.0.0
Exp Date	20131130

At the bottom of the interface, there are two radio buttons: 'System Info' (selected) and 'Thread'.

Item	Description
<i>Server</i>	Name of the analyzed server
<i>Port</i>	Application port
<i>User</i>	Used to make the snapshot of the application
<i>StartTime</i>	Date on which the snapshot of the application starts
<i>EndTime</i>	Date on which the snapshot of the application ends
<i>ElaborationTime</i>	Time spent to make out the snapshot (in seconds))
<i>PrintTime</i>	Time spent to write the file (in seconds)
<i>FreeTime</i>	Time spent to free memory structures
<i>Form</i>	Number of available forms in the application
<i>Field</i>	Number of available fields in the application
<i>Active Link</i>	Number of available active links in the application
<i>Filter</i>	Number of available filters in the application
<i>Menu</i>	Number of available menus in the application
<i>Active Link Guide</i>	Number of available active link guides in the application
<i>Filter Guide</i>	Number of available filter guides in the application
<i>DSO</i>	Number of available DSO in the application
<i>Webservice</i>	Number of available web services in the application
<i>Midtier</i>	Link required to access the administrator console of the midtier
<i>API Ver.</i>	Api version used to make the application's DB
<i>Ver.</i>	Version of the tool
<i>Exp Date</i>	Date on which the license expires

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Chapter 3: Form

The feature allows you to analyze the characteristics of forms and the functionalities associated with them. All interdependencies related to the form under consideration are described and accessible by various sections in this chapter.

➤ To use the functionality

1. Click on the link "Form" in the box "Relation"
2. Enter in the "Form Name" the name or part of the name of the analyzed form
3. Press enter

ARSurf							
Relation	Form						
	Form Name						
	ar system						
	Search for 'ar system' - RecordCount : 112						
	Form	Type	TimeStamp	Archived	Archive Type	Audit	Deleting
Ardef	AR System Message Catalog	REGULAR	2004-02-04 23:48:08	☐	None	☐	
Form	AR System Currency Codes	REGULAR	2004-02-04 23:48:10	☐	None	☐	
Menu	AR System Currency Label Catalog	REGULAR	2004-02-04 23:48:12	☐	None	☐	
Function	AR System Currency Lockdown Labels	JOIN	2004-02-04 23:48:12	☐	None	☐	
Keyword	AR System Currency Rates	REGULAR	2004-02-04 23:48:13	☐	None	☐	
Web Exposed	AR System Address/Value Preference	REGULAR	2010-11-13 02:13:22	☐	None	☐	
Web Called	AR System User Control File	REGULAR	2010-11-13 02:17:22	☐	None	☐	
Data	AR System User Preference	REGULAR	2010-11-13 02:17:37	☐	None	☐	
Pool	AR System Email Association	REGULAR	2010-11-13 02:24:04	☐	None	☐	
Strings	AR System Email Instruction Parameters	REGULAR	2010-11-13 02:34:40	☐	None	☐	
SetPath / strings	AR System Email Instructions	REGULAR	2010-11-13 02:34:43	☐	None	☐	
Qual / strings	AR System Email Attachments	REGULAR	2010-11-13 02:34:28	☐	None	☐	
Qual / Selection	AR System Email Error Logs	REGULAR	2010-11-13 02:34:37	☐	None	☐	
Set	AR System Email Mailbox Configuration	REGULAR	2010-11-13 02:34:47	☐	None	☐	
Run process	AR System Email Messages	REGULAR	2010-11-13 02:34:52	☐	None	☐	
Server	AR System Email Security	REGULAR	2010-11-13 02:40:29	☐	None	☐	
External	AR System Email Templates	REGULAR	2010-11-13 02:41:00	☐	None	☐	
Active	AR System Email User Instruction Templates	REGULAR	2010-11-13 02:41:00	☐	None	☐	
Filter	AR System Email Attachment Join	JOIN	2010-11-13 02:41:08	☐	None	☐	
Escalation							
Acti Guide							
Fit Guide							
Flight							
Error							
Action							
Diff							
Statistics							
Not Expt							
Not Equal							

The result shows all the forms which satisfy the entered searching criteria . The result is enhanced with the following information:

- Form -> name of the form
- Type -> type of form
- Timestamp -> date of the last modification made on the form
- Archived -> displays if the form's data are stored
- Archive Type -> storage method

- Audit -> displays if the form is set to the audit
- Overlay -> displays if the form is overlay

Clicking on the name of the form you can analyze further detailed information as shown in the following image.

The screenshot shows the ARSurf application interface. On the left is a navigation pane with a tree view containing various categories like 'Aradef', 'Form', 'Menu', 'Function', 'KeyWord', 'Web Exposed', 'Web Called', 'Data', 'Pool', 'Strings', 'SetPush / string', 'Qual / string', 'Qual / Selection', 'Sql', 'Bus process', 'Server', 'External', 'Action', 'Filter', 'Escalation', 'Acti Guide', 'Fit Guide', 'Plugin', 'Error', 'Action', 'Diff', 'Statistics', 'Not Equal', and 'Not Equal'. The main area displays details for the 'AR-System Actor View' form. The details are organized into sections: 'Form' (AR-System Actor View), 'Schema ID' (3308), 'Type' (REGULAR), 'Timestamp' (2010-11-13 02:13:25), 'Overlay', 'Description' (Mid Tier), and 'User Webservice' (http://System/Aradef/Forms/AR-System Actor View). Below these, there is a list of links for further analysis: Field, Index, Push To, Push From, Table IN, Table OUT, ResList, SortList, Oracle, ActiveLink, Filter, Escalation, ActiveLinkGuide, FilterGuide, Permissions, Self From this, Self From other, Menu, Open From, Other, and Open From This View.

The various links in the descriptive box make it possible to analyze the following functional areas:

- Field -> list of fields into the form
- Index -> list of indexes associated with the form
- Push To -> list of items that make a push from this form to another
- Push From -> list of items that make a push towards the considered form
- Table IN -> list of table fields in the considered form
- Table OUT -> list of table fields defined by the considered form
- ResList -> list of fields in the result list related to the considered form
- SortList -> list of fields in the sort list related to the considered form
- Oracle -> list of DB objects that interact to the considered form
- Active Link -> list of active links related to the considered form
- Filter -> list of filters related to the considered form
- Escalation -> list of escalations related to the considered form
- ActiveLinkGuide -> list of active link guides related to the considered form

- FilterGuide -> list of filter guides related to the considered form
- Permission -> list of "group permissions" related to the considered form
- Setf From this -> list of items that make a set field on the considered form
- Setf From other -> list of items that make a set field reading the value from the examined form
- Menu -> list of "searching menus" that refer to the considered form
- Open From Other -> list of items that make an "open window" from the examined form into an other
- Open From This -> list of objects that make an "open window" of the examined form
- View -> list of views related to the considered form

In the next paragraphs each item is described in detail.

Functionality Field

1. Click on the link "Field"
2. The tool shows all the fields present in the form

ARSurf

Relation	Form	AR System Actor View
	Schema ID	3308
	Type	REGULAR
	Timestamp	2010/11/13 02:13:25
	Overlay	
	Description	Mid Tier
	User WebService	http://ServerA:8080/Forms/ServerA/ARSystemActorView

Field	Field Name	Field Type	Label
Field		ALL	
Index			
Push To			
Push From			
Table IN			
Table OUT			
Rel List			
Sort List			
Oracle			
Active Link			
Filter			
Escalation			
Active Link Guide			
Filter Guide			
Permission			
Self From this			
Self From other			
Menu			
Open From			
Other			
Open From This View			

Field	Label	Fieldid	Option	Type	Overlay
Form Name	Form Name:	300010	OPTIONAL	CHAR	
Base	Base:	43021	DISPLAYONLY	TRIM	
Test1	Test1:	43029	DISPLAYONLY	TRIM	
Test	Test:	43018	DISPLAYONLY	TRIM	
View Label*	View Label*:	43004	REQUIRED	CHAR	
Action	Action:	43003	OPTIONAL	CHAR	
AR System Actor View	AR System Actor View:	43002	DISPLAYONLY	CHAR	
Base	Base:	43005	DISPLAYONLY	TRIM	
Application Name	Application Name:	1700	OPTIONAL	CHAR	
Status History	Status History:	15	SYSTEM	CHAR	
Short Description	Short Description:	8	REQUIRED	CHAR	
Status	Status:	7	REQUIRED	SELECTION	
Modified Date	Modified Date:	6	SYSTEM	DATETIME	
Last Modified By	Last Modified By:	5	SYSTEM	CHAR	
Assigned To	Assigned To:	4	OPTIONAL	CHAR	

The result is enhanced with the following information:

- Field -> name of the field in the database
- Label -> name of the visible field in the GUI. If there is more than one label (on different views), the labels will be concatenated.
- Fieldid -> identifier field
- Option -> indicates if the field is "displayonly", system, optional or mandatory
- Type -> characteristics of the field
- Overlay -> indicates if the field is "Overlay"

The result can be further filtered using these three fields: "FieldName", "FieldType" and "Label".

The column "Field" is another link back to :

- Field -> if you use the associated link, the detail of the field will be displayed. Then the available functionalities are described in the following details

Functionality Active Link

1. Click on the link "Active Link"
2. The tool shows all the active links which interact with the field

ARSurf

Relation: Form [AR System Email Association](#)

Name: Source Type

FieldID: 18001

Length: 0

Type: SELECTION

Option: REQUIRED

OnItemList: ☐

OnFormList: ☒

OnArchiveQuery: ☐

Audit: NONE

Timestamp: 2018-11-13 02:41:14

Default value: Email

Menu:

Pattern:

URL:

Overlay:

ActiveLink

ObjName:

Action:

Object	Enable	Order	Action	Change	Execute On	Timestamp
AR System Email Template Add Existing Attachment	☒	0	PUSH TO		Button MessageField	2018-11-13 02:41:28
AR System Email Messages Add Existing Attachment	☒	0	PUSH TO		Button MessageField	2018-11-13 02:41:17
AR System Email Attachment Template Association Submit?	☒	200	PUSH TO		After Submit	2018-11-13 02:41:08
AR System Email Attachment Messages Association Submit?	☒	200	PUSH TO		After Submit	2018-11-13 02:41:08

The result is enhanced with the following information:

- Object -> shows the name of the object
- Enable -> shows if the object is active
- Order -> shows the order in which the object has been defined
- Action -> shows in which actions of the object the examined field is present
- Change -> shows if the object modifies the characteristics of the field (readonly, readwrite, hidden)
- Execute On -> shows in which way the object starts
- Timestamp -> date of the last modification made on the object

The result can be also filtered using the fields "ObjName" and "Action".

The column "Object" is an additional link to:

- ✓ Object -> shows the details of the object (see the chapter on the Active Link)

Functionality Filter

1. Click on the link "Filter"
2. The tool shows all the filters which interact with the examined field

The screenshot shows the ARSurf tool interface. On the left, there is a sidebar with a 'Relation' dropdown and a list of filter types: Andel, Fun, Meta, Function, Keyword, Web Exposed, Web Called, Dns, Pool, Strings, SetPush / strings, Qual / strings, Qual / Selection, Set, Run process, Secret, External, Active, Filter, Escalation, Value, Act Guide, Filt Guide, Plugin, Error, Action, Diff, Statistics, Not Exec, and Not Execd. The main area displays details for the 'AP.Stomato' field, including its name, ID, length, type, and options. Below this, a 'Filter' table lists three filters: 'AP.Stomato.Push', 'AP.Stomato.Current', and 'AP.Stomato.End', each with columns for Object, Enable, Order, Action, Execute On, and Timestamp.

Object	Enable	Order	Action	Execute On	Timestamp
AP.Stomato.Push	☒	102	RUN IF	Submit,Modify,Merge;	2010-11-13 02:34:55
AP.Stomato.Current	☒	101	RUN IF	Submit,Modify,Merge;	2010-11-13 02:34:55
AP.Stomato.End	☒	10	RUN IF	Submit,Modify,Merge;	2010-11-13 02:34:55

The result is enhanced with the following information:

- Object -> shows the name of the object
- Enable -> shows if the object is active
- Order -> shows the order in which the object has been defined
- Action -> shows in which actions of the object the examined field is present
- Execute On -> shows in which way the object starts
- Timestamp -> date of the last modification made on the object

The result can be also filtered using the fields "ObjName" and "Action".

The column "Object" is an additional link to:

- ✓ Object -> shows the details of the object (see the chapter on the Filter)

Functionality Escalation

1. Click on the link "Escalation"
2. The tool shows all the escalations which interact with the field

The screenshot shows the ARSurf application interface. On the left is a sidebar with a list of relations. The main window displays the 'Escalation' tab. At the top of the main window, there is a green header bar with the text 'ARSurf'. Below this, there is a table with the following columns: 'ObjName', 'Enable', 'Action', and 'Timestamp'. The table contains two rows of data:

ObjName	Enable	Action	Timestamp
AP.Alt.CheckForZant	☐	RUN IF	2010-11-13 08:59:27
AP.Alt.CheckForCurrent	☐	RUN IF	2010-11-13 08:59:27

The result is enhanced with the following information:

- Object -> shows the name of the object
- Enable -> shows if the object is active
- Action -> shows in which actions of the object the examined field is present
- Timestamp -> date of the last modification made on the object

The result can be also filtered using the fields "ObjName" and "Action".

The column "Object" is an additional link to:

- ✓ Object -> shows the details of the object(see the chapter on the Escalation)

Functionality Value

1. Click on the link "Value"
2. The tool shows all the objects which contain in their "run if" or "push field" or "Set field" the examined field with a particular value

The screenshot shows the ARSurf tool interface. On the left is a sidebar with a list of relations and actions. The main area is titled 'Value' and contains a table with the following columns: Type, Value Type, Object, Enable, String, and Operator. The table has one row with the following data: FILTER, INTEGER, AP Company Check Length, [X], [X], and a right arrow.

The result is enhanced with the following information:

- Type -> shows the object which does the action
- Value Type -> shows the type of string used for the push or for the set field or for the run if
- Object -> shows the name of the object
- Enable -> shows if the object is active
- String -> shows the string used in the field
- Operator -> shows the type of operator used if it is a value utilized in the run if

The result can be also filtered using these three fields: "Type", "ObjName" and "String"

The columns "Object" and "String" are additional links to:

- ✓ Object -> shows the details of the object (see the chapters on the Active Link, Filter and Escalation)

- ✓ String -> shows the list of the objects that use the string (see the chapter on the Strings)

Functionality Enum

1. Click on the link "Enum"
2. The tool shows all the values defined for a "selection field" and all the objects which interact with this values

The screenshot shows the AR5urf tool interface. On the left is a navigation menu with various options like 'Relation', 'Audit', 'Form', 'Meta', 'Function', 'Keyword', 'Web Exposed', 'Web Called', 'Geo', 'Pool', 'Strings', 'SetPush/strings', 'Qual/strings', 'Qual/Selection', 'Set', 'Runprocess', 'Script', 'External', 'ActiveLink', 'Filter', 'Escalation', 'Acti Guide', 'Fit Guide', 'Plugin', 'Error', 'Action', 'Diff', 'Statistics', 'Not Exist', and 'Not Equal'. The main area is titled 'AR5urf' and contains a configuration table for 'Enum' and a detailed table of Enum values and objects.

Field	Value
Name	Status
FieldID	1
Length	0
Type	SELECTION
Option	REQUIRED
OnStartList	☐
OnEndList	☐
OnArchiveQuery	☐
Audit	NONE
Timestamp	2012-12-08 02:57:59
Default value	Current
Meta	
Pattern	
QBE	
Overlay	None

Enum					
	Enum Value	Enum ID			
Current	0				
Type	Value	Object	Enable	Operator	
FILTER	Current	EKM/VCC>CreateCompoundGroup_00	☒		
FILTER	Current	EKM/VCC>CreateCompoundGroup	☒		

The result is enhanced with the following information:

- Enum Value -> shows the list of values present in the "selection field"
- Enum ID -> shows the "enum ID" associated to the value
- Type -> shows the object which does the action
- Value -> shows the value used in the field
- Object -> shows the name of the object
- Enable -> shows if the object is active
- Operator -> shows the type of operator used if it is a value utilized in the run if

The column "Object" is an additional link to:

- ✓ Object -> shows the details of the object (see the chapters on the Active Link, Filter and Escalation)

Functionality Push To

1. Click on the link "Push To"
2. The tool shows all the objects which make a push towards an other form using the examined field

ARSurf

Relation

- ArceDef
- Form
- Menu
- Function
- Keyword
- Webs Exposed
- Webs Called
- Dao
- Pool
- Strings
- SetPush / strings
- Qual / strings
- Qual / Selection
- Sql
- Run process
- Server
- External
- Actlink
- Filter
- Escalation
- Value
- Act Guide
- Fit Guide
- Plugin
- Engr
- Action
- Diff
- Statistics
- Not Exist

Form: [AR System Email Association](#)

Name: Destination ID

FieldID: 18000

Length: 38

Type: CHAR

Option: REQUIRED

OnSelectList: ☐

OnResultList: ☐

OnArchiveQuery: ☐

Audit: NONE

Timestamp: 2010/11/13 02:54:14

Default value:

Menu:

Pattern:

QBE: Equal

Overlay:

Push To Other Form

Type	Object	To Schema	To Field	Operation	Order	Timestamp
FILTER	AR System Email Attachments Update Reference	AR System Email Attachments	Temp Name	SET	1000	2010/11/13 02:41:09
FILTER	AR System Email Association Update Attachment Reference	AR System Email Attachments	Unique Identifier	PUSH	1000	2010/11/13 02:41:08
FILTER	AR System Email Association Delete Attachments	AR System Email Attachments	Unique Identifier	PUSH	750	2010/11/13 02:41:08

The result is enhanced with the following information:

- Type -> shows the object which interacts with the field
- Object -> shows the name of the object
- To Schema -> shows the name of the form to which the push was done
- To Field -> shows the name of the field receiver of the push
- Operation -> shows the real action which was done to the receiver form: push or set field
- Order -> shows the order in which the object has been defined
- Timestamp -> date of the last modification made on the object

The result can be also filtered using the fields "Type" and "Operation".

The columns "Object", "To Schema" and "To Field" are additional links to:

- ✓ Object -> shows the details of the object (see the chapters on the Filter, the Actlink Link and the Escalation)

- ✓ To Schema -> shows the details of the form (see the chapter on the Form)
- ✓ To Field -> shows the details of the field receiver of the push

Functionality Push From

1. Click on the link "Push From"
2. The tool shows all the objects which "do a push" towards the examined field

ARSurf

Relation
Anndef
Form
Menu
Function
Keyword
Web Exposed
Web Called
Doc
Post
Strings
SetPush / strings
Qual / strings
Qual / Selection
Sql
Run process
Server
External
Actlink
Filter
Escalation
Acti Guide
File Guide
Plugin
Error
Action
Diff
Statistics
Not Exist
Use Email

Form
Name
FieldID
Length
Type
Option
OnSortList
OnResultList
OnArchiveQuery
Audit
Timestamp
Default value
Name
Pattern
QBE
Overlay

Push From Other Form
Type Operation
ALL ALL

Type	Object	From Schema	From Field	Operation	Order	Timestamp
ACTIVELINK	AR System Email Template Add Existing Attachment	AR System Email Templates	Unique Identifier	PUSH	0	2010-11-13 02:41:20
ACTIVELINK	AR System Email Attachment Template Association Submit1	AR System Email Attachments	Email GUID	PUSH	100	2010-11-13 02:41:09
ACTIVELINK	AR System Email Attachment Messages Association Submit2	AR System Email Attachments	Email GUID	PUSH	100	2010-11-13 02:41:09
ACTIVELINK	AR System Email Messages Add Existing Attachment	AR System Email Messages	Unique Identifier	PUSH	0	2010-11-13 02:41:13

The result is enhanced with the following information:

- Type -> shows the object which does the action
- Object -> shows the name of the object
- From Schema -> shows the name of the form from which "the push" is done
- From Field -> shows the name of the field from which "the push" is done
- Operation -> shows the real action done by the original form of "the push": Push or Set field
- Order -> shows the order in which the object has been defined
- Timestamp -> date of the last modification made on the object

The result can be also filtered using the fields "Type" and "Operation"

The columns "Object", "From Schema" and "From Field" are additional links to:

- ✓ Object -> shows the details of the object (see the chapter on the Filter, the Actlink Link and the Escalation)

- ✓ From Schema-> shows the details of the form (see the chapter on the Form)
- ✓ From Field -> shows the details of the field

Functionality Set

1. Click on the link "Set"
2. The tool shows all the objects which insert a value in the examined field

Type	Object	Form	Enable	AssignType	Assign	Order	Timestamp
ACTIVELINK	AR System Email Template Add Existing Attachment	AR System Email Templates	☒	Field	Unique Identifier	0	2010/11/13 02:41:20
ACTIVELINK	AR System Email Messages Add Existing Attachment	AR System Email Messages	☒	Field	Unique Identifier	0	2010/11/13 02:41:13
ACTIVELINK	AR System Email Attachment Template Association Submit1	AR System Email Attachments	☒	Field	Email GUID	200	2010/11/13 02:41:08
ACTIVELINK	AR System Email Attachment Messages Association Submit2	AR System Email Attachments	☒	Field	Email GUID	200	2010/11/13 02:41:09

The result is enhanced with the following information:

- Type -> shows the type of object which does the action
- Object -> shows the name of the object
- Form -> shows the name of the form by which "the set" is done
- Enable -> shows if the object is active
- AssignType -> shows the type of assignment done to insert a value in the field. The possible values of the column can be:
"Field", "Value", "Keyword", "Process", "Arith", "Function", "Dde", "Sql", "Plugin", "Selection", "Menu"
- Assign -> shows from where the value is recover. The link is present only for simple assignments (field/value/keyword/selection/menu)
- Order -> shows the order in which the object has been defined
- Timestamp -> date of the last modification made on the object

The result can be also filtered using the field "Type"

The columns "Object", "Form" and "Assign" are additional links to:

- ✓ Object -> shows the details of the object (see the chapter on the Filter, the Actlink Link and the Escalation)
- ✓ Form -> shows the details of the form (see the chapter on the Form)
- ✓ Assign -> shows the details of the field from which the value comes

Functionality Menu

1. Click on the link "Menu"
2. The tool shows all the menus which refer to the examined field

Relation	Form	AR System Actor View
Model	Name	Actor
Form	FieldID	0000
Menu	Length	255
Function	Type	CEAR
Keyword	Option	OPTIONAL
Web Exposed	OnFieldList	☐
Web Called	OnResultList	☐
Data	OnAnchorQuery	☐
Pool	Audit	NONE
Storage	Timestamp	2010-11-11 12:13:25
SetPush / string	Default value	
Qual / strings	Menu	AR System Actor
Qual / Selection	Pattern	
Set	QBE	Anywhere
Post process	Overlay	
Server	ActiveLink	
External	Filter	
ActiveLink	Filter	
Filter	Filter	
Escalation	Escalation	
Act Guide	Value	AR System Actor
Fit Guide	Form	
Flags	PushTo	
Form	PushFrom	
Action	Set	
Diff	Menu	
	Index	
	Table	
	Doc	
Statistics	Qualification	
Not Equal	Change	
Not Equal	Val	
	Permission	

The result is enhanced with the following information:

- Menu -> shows the menu associated to the field
- ActiveLink -> shows the name of the eventual active link which loads the menu for the examined field

The column "Menu" is an additional link to:

- ✓ Menu-> shows the details of the menu (see the chapters on the Menu)

Functionality Index

1. Click on the link "Index"
2. The tool shows all the indexes associated to the examined field

ARSurf		
Relation	Form	All System Actor View
	Name	Actor
	FieldID	4983
	Length	255
	Type	CHAR
	Option	OPTIONAL
	OnSelectList	☐
	OnResultList	☐
	OnArchiveQuery	☐
	Auth	NONE
	Timestamp	2019-11-13 02:13:23
	Default value	
	Menu	All System Actor
	Pattern	
	gill	Anywhere
	Overlay	
Scroll Form Menu Function Keyword Web Exposed Web Collet Doc Email Strings SetPush / strings Qual / strings Qual / Selection Set Run process Server External Actions Filter Escalation Act Guide Fn Guide Plugin Enum Action Diff Statistics Not Enus Not Enusl	ActiveLink Filter Escalation Value Enum PushTo PushFrom Set Menu Index Table Doc Qualification Change Vis Permission	Index Index D398_43983_1 D398_1789_1

The result is enhanced with the following information:

- Index -> shows the name of the index associated to the field

Functionality Table

1. Click on the link "Table"
2. The tool shows if the examined field is used in the definition of the table fields

The screenshot shows the ARSurf tool interface. On the left is a navigation pane with a tree view containing various categories like 'Relation', 'Form', 'Menu', 'Function', 'Keyword', 'Web Exposed', 'Web Called', 'Dso', 'Pool', 'Strings', 'SetPush / strings', 'Qual / strings', 'Qual / Selection', 'Sql', 'Run process', 'Server', 'External', 'ActiveLink', 'Filter', 'Escalation', 'Acti Guide', 'Filt Guide', 'Plugin', 'Error', 'Action', 'Diff', 'Statistics', 'Not Equal', and 'Not Equal'. The main area is titled 'ARSurf' and displays details for a selected field. The 'Form' tab is active, showing properties like Name (Login Name), FieldID (101), Length (254), Type (CHAR), Option (REQUIRED), OnSortList (checkbox), OnResultList (checkbox), OnArchiveQuery (checkbox), Andor (NONE), Timestamp (2011/04/17 13:38:06), Default value, Menu, Pattern, and QBE (Anywhere). Below this, the 'Table' tab is selected, showing a table with columns: Form, Table, Column, and Sort. The table contains one row with the following values: 'FD', 'Table Field2', 'Column100', and a checkbox.

Form	Table	Column	Sort
FD	Table Field2	Column100	☐

The result is enhanced with the following information:

- Form -> shows the form which contains the table field
- Table -> shows the name of the table field
- Column -> shows the name of the column associated to the examined field
- Sort -> shows if any sort is defined on the column

The columns "Form", "Table" and "Column" are additional links to:

- ✓ Form -> shows the details of the form (see the chapter on the Form)
- ✓ Table -> shows detailed information about the table field (fields that form it, condition etc)
- ✓ Column -> shows detailed information of the column

Functionality DSO

1. Click on the link "DSO"
2. The tool shows every DSO in which there is the examined field

The screenshot shows the ARSurf tool interface. On the left is a navigation menu with categories like 'Relation', 'Audit', 'Form', 'Menu', 'Function', 'Keyword', 'Web Exploit', 'Web Crawl', 'Doc', 'Email', 'Strings', 'SetPath / strings', 'Qual / strings', 'Qual / Selection', 'Set', 'Business', 'Server', 'External', 'Action', 'Filter', 'Escalation', 'Act Guide', 'Pit Guide', 'Plugin', 'Error', 'Action', 'Diff', 'Statistics', 'Not Event', and 'Not Equal'. The main area displays details for the field 'AR System Event Messages'. Below this, a table titled 'DSO' lists the Data Source Objects containing this field.

Relation	Form	Menu	Function	Keyword	Web Exploit	Web Crawl	Doc	Email	Strings	SetPath / strings	Qual / strings	Qual / Selection	Set	Business	Server	External	Action	Filter	Escalation	Act Guide	Pit Guide	Plugin	Error	Action	Diff	Statistics	Not Event	Not Equal
Name	AR System Event Messages																											
FieldID	AR System Event TCP Port																											
Length	0																											
Type	INTEGER																											
Option	OPTIONAL																											
OnInsert	☐																											
OnInsertList	☐																											
OnInsertQuery	☐																											
Audit	NONE																											
Timestamp	2009-11-13 02:04:20																											
Default value	0																											
Menu																												
Pattern																												
QSE																												
Overlay																												

DSO		Enabled
AR System Event Messages Archive		0

The result is enhanced with the following information:

- DSO -> shows the name of the DSO mapping which contains the analyzed field
- Enabled -> shows if the the object is active

The column "DSO" is an additional link to:

- ✓ DSO -> shows the details of the DSO (see the chapters on the DSO)

Functionality Qualification

1. Click on the link "Qualification"
2. The tool shows the objects that contain in the qualification the examined field

The screenshot shows the ARSurf tool interface. On the left is a navigation pane with various categories like Relation, ActiveLink, Filter, Escalation, Menu, etc. The main area is divided into two sections. The top section shows properties for a selected object, and the bottom section shows a table of qualifications.

Properties Section:

Form	AR System Event Messages
Name	Message Name
FieldID	11119
Length	254
Type	CHAR
Option	DISPLAYONLY
OnStartList	☐
OnResultList	☐
OnArchiveQuery	☐
Audio	NONE
Timestamp	2010-11-11 02:34:51
Default value	
Index	AR System Event Messages Name List
Parent	
QSE	Anywhere
Overlay	

Qualification Table:

ObjType	Object	Enabled	Action	Order	Timestamp
ACTIVELINK	AR System Event Messages Name to Run Menu Choice	☒	RUN IF	10	2010-11-11 02:41:21

The result is enhanced with the following information:

- ObjType -> shows the type of the object which does the action
- Object -> shows the name of the object
- Enable -> shows if the object is active
- Action -> shows the type of the qualification in which there is the field
- Order -> shows the order in which the object has been defined
- Timestamp -> date of the last modification made on the object

The result can be also filtered using the field "Type"

The column "Object" is additional link to:

- ✓ Object -> shows the details of the object (see the chapters on the Filter, the Actlink, the Escalation, Menu)

Functionality Change

1. Click on the link "Change"
2. The tool shows the objects that do a "change field" of the examined field

ARSurf

Relation	Form	AR System Administration: Server Information			
	Name	ViewAPILog			
	FieldID	18141			
	Length	8			
	Type	BUTTON			
	Option	DISPLAYONLY			
	OnActionList	☐			
	OnRenderList	☐			
	OnActionQuery	☐			
	Audit	NONE			
	Timestamp	2010-11-13 02:18:45			
	Default value				
	Menu				
	Pattern				
	GRE				
	Overlay				
	ActionLink				
	Filter				
	Escalation	AR System Administration Log Files - Enable Api Log			
	Value	READWRITE			
	Error	DISABLE			
	PublTo				
	PublFrom				
	Set				
	Menu				
	Index				
	Table				
	Doc				
	Qualification				
	Change				
	Url				
	Permission				

The result is enhanced with the following information:

- Object -> shows the name of the object
- Change Type> shows the type of change made
- Order -> shows the order in which the object has been defined
- Timestamp -> date of the last modification made on the object

The column "Object" is an additional link to:

- ✓ Object -> shows the details of the object (see the chapter on the Actlink)

Functionality Vui

1. Click on the link "Vui"
2. The tool shows the views in which the examined field is defined

The screenshot shows the ARSurf application interface. On the left is a sidebar with a list of data types: Boolean, Form, Menu, Function, Keyvalue, Value Exposed, Value Called, Do, Pool, Strings, SetPush / strings, Qual / strings, Qual / Selection, Set, Run process, Secure, External, Action, Filter, Escalation, Acti Guide, Fill Guide, Flag, Error, Action, Diff, Statistics, Not Exist, Not Equal, and Permission. The main area is titled 'Vui' and contains a table with the following data:

Vui	VuiLabel	Label	Visible	Field Access
Default Admin View	Default Admin View	Use License	Visible	Read Write
Review	Review	Use License	Visible	Read Write

The result is enhanced with the following information:

- Vui -> shows the name of the view in which there is the field
- Vui Label -> label of the view in which there is the field
- Label -> label of the field in the view in which it is defined
- Visible-> shows if the field is visible in the view
- Field Access -> shows the type of access defined for the field

Functionality Permission

1. Click on the link "Permission"
2. The tool shows the permissions associated to the examined field

ARSurf

Relation	Form	ARSystem Actor View		
	Name	Form Name		
	FieldID	2000010		
	Length	255		
	Type	CHAR		
	Option	OPTIONAL		
	OnStartList	☐		
	OnRecallList	☐		
	OnArchiveQuery	☐		
	Audit	NO		
	Timestamp	2019-11-13 02:13:23		
	Default value			
	Menu	ARSystem Actor View		
	Pattern			
	URL	Anywhere		
	Overlay			
ActiveLink	Permission			
Filter	GroupID	Group	Permissions	
Escalation	0	Public	View	
Value	0	Submaster	Change	
Enum	0	Assigner	Change	
PushTo				
PushFrom				
Set				
Menu				
Index				
Table				
Doc				
Qualification				
Change				
View				
Permission				

The result is enhanced with the following information:

- GroupID -> shows the ID of the group which has the permissions on the examined field
- Group -> shows the name of the group
- Permission -> shows the type of permissions associated to the group

Functionality Index

1. Click on the link "Index"
2. The tool displays all the indexes defined in the form

The screenshot shows the ARSurf application interface. The top bar is green and labeled 'ARSurf'. On the left is a sidebar with a navigation menu containing items like 'Relation', 'Armed', 'Form', 'Menu', 'Function', 'Keyboard', 'Web Services', 'Web Called', 'Data', 'Pool', 'Strings', 'SetPush / strings', 'Data / strings', 'Data / Selection', 'Set', 'Run process', 'Search', 'External', 'Active', 'Filter', 'Escalation', 'ActiveLinkGuide', 'Acti Guide', 'Filter Guide', 'Permission', 'Set From this', 'Set From other', 'Menu', 'Open From', 'Other', 'Open From This', 'View', 'Statistics', 'Not Event', and 'Not Equal'. The main content area displays a form for 'AR System Actor View' with fields for 'Schema ID' (3308), 'Type' (REGULAR), and 'Timestamp' (2010/11/13 02:13:25). Below this is a table of indexes:

Index	Unique	View Field
33108_1709_1	☐	View Field
33108_40001_1	☐	View Field
33108	☐	View Field
33108	☐	View Field

Below the table is a section titled 'Field' with a link 'Application Name' and the text 'Actor'.

The result is enhanced with the following information:

- Index-> name of the index in the database
- Unique -> indicates if the index is unique
- View Field -> using this button, the fields that make up the index are displayed

The column "Field" is another link back to:

- ✓ Field -> if you use the associated link, the detail of the field will be displayed

Functionality Push To

1. Click on the link "Push To"
2. The tool shows all objects (ActiveLink, Escalation, Filter, DSO) which do a push from the current form to another

The screenshot shows the ARSurf interface. On the left is a navigation menu with various categories like 'Relation', 'Aradef', 'Form', 'Menu', 'Function', 'Keyword', 'Web Exposed', 'Web Called', 'Doc', 'Pool', 'String', 'SetPush / string', 'Qual / string', 'Qual / Selection', 'Ref', 'Run process', 'Server', 'External', 'Action', 'Filter', 'Escalation', 'ActionLinkCode', 'Acti Guide', 'Filter Guide', 'Permission', 'Self From this', 'Self From other', 'Menu', 'Open From', 'Other', 'Open From This', 'View', 'Statistics', 'Not Found', and 'Not Equal'. The main area shows details for the 'AR System Email Association' form, including its Schema ID (1323), Type (REGULAR), Timestamp (2010/11/13 02:34:14), and Description. Below this is a 'Push To Other Form' section with a table of objects.

Type	Object	Enable	Form	Create	Order	Timestamp
FILTER	AR System Email Association Update Attachment Reference	☒	AR System Email Attachments	☐	1000	2010/11/13 02:41:08
FILTER	AR System Email Association Mark Email Entry Attachments/cont	☒	AR System Email Messages	☐	500	2010/07/04 09:34:26
FILTER	AR System Email Association Delete Attachments	☒	AR System Email Attachments	☐	750	2010/11/13 02:41:08

The result is enhanced with the following information:

- Type -> indicates the type of the object that does the push
- Object -> name of the object that does the push
- Enable -> indicates if the object is enabled
- Form -> shows the name of the form to which the push was done
- Create -> indicates if in the "push field" the option "create new request" is set
- Order -> shows the order in which the object has been defined
- Timestamp -> date of the last modification made on the object

The result can be further filtered using the two fields "Objtype" (Actlink, Escalation, Filter, DSO) and "ObjName." The columns "Object" and "Form" are additional links to:

- ✓ Object -> displays the details of the object (see the chapters on the Active Link, the Escalation, the Filter, the DSO)
- ✓ Form -> shows the details of the form

Functionality Push From

1. Click on the link "Push From"
2. The tool shows all objects (ActiveLink, Escalation, Filter, DSO) which do a push towards the considered form

The screenshot shows the ARSurf interface with the 'Push From' functionality. The left sidebar contains a navigation menu with various options like 'Relation', 'Form', 'Menu', 'Function', etc. The main area displays details for a selected form, 'AR System Email Association', including its Schema ID (1325), Type (REGULAR), and Timestamp (2010/11/13 02:34:14). Below this, a table titled 'Push From Other Form' lists objects that push data towards the selected form.

Type	Object	Enable	Form	Create	Order	Timestamp
ACTIVELINK	AR System Email Template Add Existing Attachment	☒	AR System Email Templates	☒	0	2010/11/13 02:41:20
ACTIVELINK	AR System Email Messages Add Existing Attachment	☒	AR System Email Messages	☒	0	2010/11/13 02:41:15
ACTIVELINK	AR System Email Attachment Template Association Internal	☒	AR System Email Attachments	☒	200	2010/11/13 02:41:00
ACTIVELINK	AR System Email Attachment Messages Association Internal	☒	AR System Email Attachments	☒	200	2010/11/13 02:41:00

The result is enhanced with the following information:

- Type -> indicates the type of the object that does the push
- Object -> name of the object that does the push
- Enable -> indicates if the object is enabled
- Form -> name of the form from which the push starts
- Create -> indicates if in the "push field" the option "create new request" is set
- Order -> shows the order in which the object has been defined
- Timestamp -> date of the last modification made on the object

The result can be further filtered using these two fields: "Objtype" (Actlink, Escalation, Filter, DSO) and "ObjName".

The columns "Object" and "Form" are additional links to:

- ✓ Object -> displays the details of the object (see the chapters on the Actlink, the Escalation, the Filter, the DSO)
- ✓ Form -> shows the details of the Form

Functionality Table IN

1. Click on the link "Table IN"
2. The tool shows the table fields defined in the considered form

ARSurf		
Relation	Form	AR System Administration: Add Or Remove Licenses
	Schema ID	3227
Model	Type	VENDOR
Form	Timestamp	2019/11/13 02:09:14
Menu	Overide	
Function	Description	Mid Tier
Keyword	Use WebService	http://ServiceA.aspx?Form=AR System Administration: Add Or Remove Licenses
Web Exposed		
Web Called		
Doc	Field	Table Inside
Pool	Index	Form
String	Push To	Field
SetPush / string	Push From	AR System Administration: Add Or Remove Licenses
Qual / string	Table IN	List of applied licenses
Qual / Selection	Table OUT	
Set	ResultSet	
Run process	SumList	
Secur	Oracle	
External	ActionLink	
Action	Filter	
Filter	Escalation	
Escalation	ActionLinkGuide	
Acti Guide	FilterGuide	
File Guide	Permission	
Plugin	Set From this	
Error	Set From other	
Action	Menu	
Diff	Open From	
	Other	
Statistics	Open From This	
Not Exist	View	
Not Equal		

The result is enhanced with the following information:

- Form -> indicates the name of the form on which the table field depends
- Field-> indicates the name of the table field

The columns "Form" and "Field" are additional links to:

- ✓ Form -> shows the details of the form
- ✓ Field -> shows the details of the field

Functionality Table OUT

1. Click on the link "Table OUT"
2. The tool shows the table fields that refer to the considered form

ARSurf		
Relation	Form	AR System Administration License Review
	Schema ID	3317
Archi4et	Type	VENDOR
Form	Timestamp	2010/11/13 02:19:03
Menu	Overlay	
Function	Description	Mit Tier
Keywords	User WebService	http://Service.arsys.com/Service/AR_System_Administration_License_Review
Web Exposed	Field	
Web Called	Index	
Doc	Push To	
Pool	Push From	
Strings	Table IN	
SetPush / strings	Table OUT	
Qual / strings	ResList	
Qual / Selection	SortList	
Sql	Grade	
Run process	ActiveLink	
Server	Filter	
External	Escalation	
Action	ActiveLinkGuide	
Filter	FilterGuide	
Escalation	Permission	
Acti Guide	Set From this	
Fit Guide	Set From other	
Plugin	Menu	
Error	Open From	
Action	Other	
Diff	Open From This	
	View	
Statistics		
Not Post		
Not Equal		

The result is enhanced with the following information:

- Form -> indicates the name of the form in which the table field is defined
- Field-> indicates the name of the table field

The columns "Form" and "Field" are additional links to:

- ✓ Form -> shows the details of the form
- ✓ Field -> shows the details of the field

Functionality ResList

1. Click on the link "ResList"
2. The tool shows the fields in the result list of the considered form

ARSurf			
Relation	Form	AR System Email Association	
	Schema ID	1323	
Arudel	Type	REGULAR	
Form	Timestamp	2010-11-13 02:34:14	
Menu	Overlay		
Function	Description	Mail Time	
Keywords	Use WebService	http://ServiceA.aspx?Source=ServiceA_AR_System_Email_Association	
Views Exposed	Field	Result List	
Views Called	Index		
Doc	Push To	Field	Width
Pool	Push From	Separator	
Strings	Table IN	Source Type	10
SetPush / strings	Table OUT	Destination Type	10
Qual / strings	ResList	Source ID	20
Qual / Selection	SortList	Destination ID	20
Sql	Oracle		
Run process	ActiveLink		
Secret	Filter		
External	Escalation		
Action	ActiveLinkChoice		
Filter	FilterGrade		
Escalation	Permission		
Act Grade	Self From this		
Fin Grade	Self From other		
Flagset	Menu		
Form	Open From		
Action	Other		
Diff	Open From This		
	View		
Statistics			
Not Equal			
Not Equal			

The result is enhanced with the following information:

- Field -> indicates the name of the field in the result list
- Width -> indicates the size of the field in the result list
- Separator -> indicates the separator used for the field in the result list

The column "Field" is another link back to:

- ✓ Field -> shows the details of the field

Functionality SortList

1. Click on the link "SortList"
2. The tool shows the fields in the sort list of the considered form

ARSurf		
Relation	Form	AR System Version Control Task
	Schema ID	3235
Archief	Type	REGULAR
Form	Timestamp	2010/11/13 02:09:21
Menu	Overlay	
Function	Description	Mit-Tier
Keywords	Use Webservice	http://saros4.arcs4.com/Service/AR-System-Version-Control-Task
Views Exposed	Sort List	
Views Called		
Doc	Field	Order
Pool	Index	
Strings	Push To	
SetPush / strings	Push From	ASC
Qual / strings	Table IN	ASC
Qual / Selection	Table OUT	ASC
Sql	RealList	
Run process	SortList	
Server	Grade	
External	ActiveLink	
Action	Filter	
Filter	Escalation	
Escalation	ActiveLinkGrade	
Acti Guide	FilterGuide	
Fit Guide	Permission	
Plugin	Self From this	
Error	Self From other	
Action	Menu	
Diff	Open From	
	Other	
Statistics	Open From This	
Not Found	View	
Not Equal		

The result is enhanced with the following information:

- Field -> indicates the name of the field in the sort list
- Order -> indicates the type of sorting set on the field

The column "Field" is another link back to:

- ✓ Field -> shows the details of the field

Functionality Oracle

1. Click on the link "Oracle"
2. The tool displays the objects in the DB associated directly with the analyzed form

ARSurf

Relation	Form	AR System Email Messages	
	Schema ID	1329	
	Type	REGULAR	
	Timestamp	2010/11/13 02:44:42	
	Overlay		
	Description	Mid Tier	
	User WebService	http://ServiceA.arsoy.com/ServiceA/AR_System_Email_Messages	

Oracle Objects		
	Name	Type
Field	AR_SYSTEM_EMAIL_MESSAGES	VIEW
Index	CANC_OLD_DATE	PACKAGE BODY
Push To	RI120	TABLE
Push From	SR_AR_SYSTEM_EMAIL_MESSAGES	VIEW
Table IN	TI120	TABLE
Table OUT	TI120	TABLE
ResList	IDN_T120	INDEX
SortList	DI120	INDEX
Oracle	TI120	INDEX
ActiveLink	TI120_170_1	INDEX
Filter	TI120_10001_01_1	INDEX
Escalation	TI120_10001_1	INDEX
ActiveLinkGuide	SYB_IL0000177445C0001255	INDEX
FilterGuide	SYB_IL0000177445C0001053	INDEX
Permissions	SYB_IL0000177445C0001753	INDEX
Self From this	SYB_IL0000177445C0001351	INDEX
Self From other	SYB_IL0000177445C0001951	INDEX
Menu	SYB_IL0000177445C0001133	INDEX
Open From	SYB_IL0000177445C0001255	INDEX
Other		
Open From This		
View		

The result is enhanced with the following information:

- Name -> name of the object of the DB associated with the analyzed form
- Type -> indicates the type of the DB object

Functionality Active Link

1. Click on the link "ActiveLink"
2. The tool shows all Active links associated to the analyzed form

ARSurf

Relation	Form	AR System Email Association				
	Schema ID	1323				
Arrest	Type	REGULAR				
Form	Timestamp	2010/11/13 02:34:14				
Menu	Overlay					
Function	Description	Mid Tier				
Keyword	Use/Webservice	http://ServerA:8080/ServerA/ARSystemEmailAssociation				
Web Exposed						
Web Called						
Doc						
Pool						
String						
SetEach / strings						
Qual / strings						
Qual / Selection						
Set						
Run process						
Set						
External						
External						
Action						
Filter						
Exception						
Act Guide						
Ext Guide						
Page						
Error						
Action						
Diff						
Statistics						
Not Found						
Not Found						

Field	ActiveLink					
Index	ObjName					
Push To						
Push From						
Table IN						
Table OUT						
FlexList						
SortList						
Circle						
ActiveLink						
Filter						
Escalation						
ActiveLinkGrade						
FilterGrade						
Permission						
Set From this						
Set From other						
Menu						
Open From						
Other						
Open From This						
View						

Objent	Order	Enable	Escalate On	Timestamp	Overlay
AR System Email Check GUID on Copy New	0	(0)	Copy2New...	2010/11/13 02:41:21	

The result is enhanced with the following information:

- Object -> indicates the name of the object
- Order -> indicates the order in which the object was defined
- Enable -> indicates if the object is enabled
- Execute On -> indicates how the object has started
- Timestamp -> date of the last modification made on the object
- Overlay -> displays if the object is overlay

The result can be further filtered using the "ObjName".

The column "Object" is an another link back to:

- ✓ Object -> displays the details of the object (see the chapter on the Active Link)

Functionality Filter

1. Click on the link "Filter"
2. The tool shows all filters associated to the analyzed form

ARsurf						
Relation	Form	AR System Email Association				
	Schema ID	1323				
Arudel	Type	REGULAR				
Form	Timestamp	2010/11/13 02:34:14				
Menu	Overlay					
Function	Description	Mid Tier				
Keywords	User Webservice	http://ServerName/form/Server/AR System Email Association				
Views Exposed	Field					
Views Called	Index					
Doc	Push To					
Doc	Push From					
Table / string	Table IN					
Qual / string	Table OUT					
Qual / Selection	ResList					
Sql	SortList					
Run process	Oracle					
Search	ActiveLink					
External	Filter					
Autolink	Escalation					
Filter	ActiveLinkGuide					
Escalation	FilterGuide					
Acti Guide	Permissions					
Fit Guide	Self From this					
Plugin	Self From other					
Form	Menu					
Adisp	Open From					
Diff	Other					
	Open From This					
Statistics	View					
Not Equal						
Not Equal						

The result is enhanced with the following information:

- Object -> indicates the name of the object
- Order -> indicates the order in which the object was defined
- Enable -> indicates if the object is enabled
- Execute On -> indicates how the object started
- Timestamp -> date of the last modification made on the object
- Overlay -> displays if the object is overlay

The result can be further filtered using the "ObjName".

The column "Object" is an another link back to:

- ✓ Object -> displays the details of the object (see the chapter on the Filter)

Functionality Escalation

1. Click on the link "Escalation"
2. The tool shows all escalations associated to the analyzed form

The screenshot shows the ARSurt application interface. On the left is a sidebar with a tree view containing various system components. The main area displays details for a selected form (Schema ID: 2, Type: REGULAR, Timestamp: 2011-04-17 13:38:09). Below this, there is a table titled 'Escalation' with columns: ObjName, Enable, Timestamp, and Overlay. The table lists three entries: 'UserSetForgotPasswordChange', 'UserLostPasswordChange', and 'UserDisableUserAccount', each with a checkbox in the 'Enable' column and a timestamp.

The result is enhanced with the following information:

- Object -> indicates the name of the object
- Enable -> indicates if the object is enabled
- Timestamp -> date of the last modification made on the object
- Overlay -> displays if the object is overlay

The result can be further filtered using the "ObjName".

The column "Object" is another link back to:

- ✓ Object -> displays the details of the object (see the chapter on the Escalation)

Functionality ActiveLinkGuide

1. Click on the link "ActiveLinkGuide"
2. The tool shows all active link guides associated to the analyzed form

ARSurf		
Relation	Form	User Password Change
	Schema ID	3292
Anchor	Type	DEALOG
Form	Timestamp	2011/04/17 16:00:04
Menu	Overlay	
Function	Description	Mid Title
Keyword	Use WebService	http://ServerA.sonyoforma.com/UserPasswordChange
Web.Exposed	ActiveLink Guide	
Web.Called	ActiveLink Guide	
Dir	Field	
Float	Index	
Strings	Push To	
SetPush / strings	Push From	
Qual / strings	Table IN	
Qual / Selection	Table OUT	
Sql	RealList	
Run process	SortList	
Server	Oracle	
External	ActiveLink	
Action	Filter	
Filter	Escalation	
Escalation	ActiveLinkGuide	
Act Guide	FilterGuide	
File Guide	Permission	
Plugin	Set From this	
Error	Set From other	
Action	Menu	
Diff	Open From	
	Other	
	Open From This	
Statistics	View	
Not Equal		
Not Equal		

The result is enhanced with the following information:

- ActiveLinkGuide -> indicates the name of the object
- Overlay -> displays if the object is overlay

The column ActiveLinkGuide is an additional link back to:

- ✓ ActiveLinkGuide -> displays the details of the object (see the chapter on the Active Link Guide)

ARSurf		
Relation	Form	ReportCreator
	Schema ID	3305
	Type	VENDOR
	Timestamp	2010/11/13 09:58:38
	Overlay:	
	Description	Mkt Tier
	User WebService	http://Service.sageusa.com/ServiceA/ReportCreator
	Field	
	Index	
	Push To	ReportCreator field field List
	Push From	ReportCreator Store Field ID List
	Table IN	
	Table OUT	
	ResList	
	SortList	
	Oracle	
	ActiveLink	
	Filter	
	Evaluation	
	ActiveLinkGuide	
	Filter Guide	
	Permission	
	Set From this	
	Set From other	
	Menu	
	Open From	
	Other	
	Open From This	
	View	

Functionality Permission

1. Click on the link "Permission"
2. The tool shows all permissions associated to the analyzed form

ARSurf

Relation	Form	ReportCreate
	Schema ID	3385
	Type	VENDOR
	Timestamp	2010/11/13 09:58:38
	Overlay	
	Description	Mid Tier
	User Webservice	http://ServiceA/entry/forms/ServiceA/ReportCreate

Field	Permission	Group
Index	Hidden	Public
Push To		
Push From		
Table IN		
Table OUT		
ResList		
SortList		
Oracle		
ActiveLink		
Filter		
Escalation		
ActiveLinkGrade		
FilterGrade		
Permission		
Self From this		
Self From other		
Menu		
Open From		
Other		
Open From This		
View		

The result is enhanced with the following information:

- GroupId -> indicates the identifier of the group to which a permission was given
- Permission -> indicates the type of permission assigned to the group
- Group -> indicates the name of the group to which a permission was given. If a Group is null means that a permission was given to a GroupID which after has been deleted.

Functionality Setf From this

1. Click on the link "Setf From this"
2. The tool displays the list of objects that make a Set field on the considered form

ARSurf

Relation	Form	AR System Email Messages						
	Scheman ID	1329						
Arudel	Type	REGULAR						
Form	Timestamp	2010/11/13 02:34:52						
Menu	Overlay							
Function	Description	Mid Time						
Keyword	User Webservice	http://surfsa.arsys.fr/arsys/Service/AR_System_Email_Messages						
Webes Exposed								
Webes Called								
Doc								
Field								
Index								
Strings								
SetPush / strings								
Qual / strings								
Qual / Selection								
Ref								
Run process								
Sever								
External								
Active								
Filter								
Escalation								
ActiveLink								
Filter Guide								
Permisson								
Setf From this								
Setf From other								
Menu								
Open From								
Other								
Open From This								
View								
Statistics								
Not Exec								
Not Equal								

The result is enhanced with the following information:

- ObjType -> indicates the type of object
- ObjName -> indicates the name of the object
- ObjForm -> indicates the name of the form from which the value is retrieved
- ObjEnable-> indicates if the object is enabled
- Current Transaction -> if it is active it means that the field is performed on set-Current-Transaction
- Order -> shows the order in which the object has been defined
- Timestamp -> date of the last modification made on the object

The columns "ObjName" and "ObjForm" are additional links to:

- ✓ ObjName -> displays the details of the object (see the chapters on the Active Link, the Escalation, the Filter, the DSO)
- ✓ ObjForm -> shows the details of the form

Functionality Setf From other

1. Click on the link "Setf From other"
2. The tool displays the list of objects that make a Set field by retrieving the value from the considered form

ARSurf

Relation	Form	AR System Email Messages						
	Schema ID	1329						
Aradef	Type	REGULAR						
Form	Timestamp	2010/11/13 02:34:52						
Menu	Overlay							
Function	Description	Mail Tier						
Keyword	User Webservice	http://TermisAuctionFormService/ARSystemEmailMessages						
Web Exposed	Field	Setf From other Form						
Web Called	Index	ObjType	ObjName	ObjForm	ObjEnable	Current Transaction	Order	Timestamp
Doc	Push To	ACTIVELINK	AR System Email Messages ID to Subject Connection	AR System Email Sent Logs	☒	☐	11	2010/11/13 02:41:10
Env	Push From	ACTIVELINK	AR System Email Messages Add Existing Attachment	AR System Email Messages	☒	☐	9	2010/11/13 02:41:15
Strings	Table IN							
SetPush / strings	Table OUT							
Qual / strings	Recall							
Qual / Selection	Sort List							
Set	Crack							
Run process	Action Link							
Search	Filter							
External	Escalation							
Action	Action Link Guide							
Filter	Filter Guide							
Escalation	Permission							
Action Guide	Setf From this							
Filter Guide	Setf From other							
Plugin	Menu							
Error	Open From							
Action	Other							
Diff	Open From This							
	View							
Statistics								
Not Found								
Not Equal								

The result is enhanced with the following information:

- ObjType -> indicates the type of object
- ObjName -> indicates the name of the object
- ObjForm -> indicates the name of the form by which the "Set Field" is required
- ObjEnable -> indicates if the object is enabled
- Current Transaction -> if it is active it means that the field is performed on set-Current-Transaction
- Order -> shows the order in which the object has been defined
- Timestamp -> date of the last modification made on the object

The columns "ObjName" and "ObjForm" are additional links to:

- ✓ ObjName -> displays the details of the object (see the chapters on the Active Link, the Escalation, the Filter, the DSO)
- ✓ ObjForm -> shows the details of the form

- ARSurf

Relation

Form

Schema ID

Type

Timestamp

Overlay

Description

User WebService

Field

Index

Push To

Push From

Table IN

Table OUT

RealList

SortList

Oracle

ActiveLink

Filter

Escalation

ActiveLinkGuide

FilterGuide

Permission

Self From this

Self From other

Menu

Open From

Other

Open From This

View

Form	AR System Email Templates
Schema ID	1331
Type	REGULAR
Timestamp	2010/11/13 02:41:02
Overlay	
Description	Mid-Tier
User WebService	http://Service.aspx?Name=Service/AR System Email Templates

Field	Menu	Timestamp	Overlay
Push To	AR System Email Templates	2010/11/13 02:41:02	
Push From			
Table IN			
Table OUT			
RealList			
SortList			
Oracle			
ActiveLink			
Filter			
Escalation			
ActiveLinkGuide			
FilterGuide			
Permission			
Self From this			
Self From other			
Menu			
Open From			
Other			
Open From This			
View			

- Menu -> indicates the name of the menu
- Timestamp -> indicates the timestamp of the object
- Overlay -> displays if the object is overlay

- ✓ Menu -> shows the details of the menu (see the chapter on the Menu)

Functionality Open From Other

1. Click on the link "Open From Other"
2. The tool shows all the objects that do an open window from the considered form to others

ARSurf				
Relation	Form	AR System User Preference		
	Schema ID	1318		
	Type	REGULAR		
	Timestamp	2010-11-13 02:17:37		
	Overlay			
	Description	Mid-Tier		
	Use WebServer	http://ServerName:8080/ServerName/ARSystemUserPreference		
- Andet - Form - Menu - Function - Keycode - WebExposed - WebCafed - Doc - Pool - Strings - SetPush / strings - Qual / strings - Qual / Selection - Set - Bus process - Server - External - Action - Filter - Escalation - Acti Guide - Fit Guide - Plugin - Error - Action - Diff - Statistics - Net Event - Net Event	Field	Open Windows From Other		
	Index	Actl	Enable	Open Form
	Push To	ALSTARTARSystemPreferenceForm.Search		SEARCH
	Push From		AR System User Preference	
	Table IN			
	Table OUT			
	ResList			
	SortList			
	Oracle			
	ActiveLink			
	Filter			
	Escalation			
	ActiveLinkCode			
	FilterGuide			
	Permission			
	Set From this			
	Set From other			
	Menu			
	Open From			
	Other			
	Open From This			
	View			

The result is enhanced with the following information:

- Actl -> indicates the name of the object that does the open window
- Enable -> indicates if the object is active
- Open Form -> indicates the name of the opening form
- OpenMode-> indicates the type of "open window" made

The columns "Actl" and "Open Form" are additional links to:

- ✓ Actl -> displays the details of the object menu (see the chapters on the Actlink)
- ✓ Open Form -> shows the details of the form (see the chapter on Form)

Functionality Open From This

1. Click on the link "Open From This"
2. The tool shows all the objects that do an open window of the considered form

ARSurf				
Relation	Form	User		
Model	Schema ID	2		
Form	Type	REGULAR		
Menu	Timestamp	2011/04/17 13:38:09		
Function	Overview			
Keyword	Description	Mid Tier		
Web Exposed	User WebService	http://Service/Service/Service/Service/Service		
Web Called				
Doc				
Pool				
Storage				
SetPush / storage				
Qual / storage				
Qual / Selection				
Set				
Bar process				
Bar				
External				
Actlink				
Filter				
Escalation				
Acti Guide				
Fit Guide				
Page				
Error				
Action				
Diff				
Statistics				
Net Count				
Net Count				

Open Windows From This				
Field	Actl	Enable	Open Form	Open Mode
Push To	AR System Administration	01	Group	MODIFY SPLIT
Push From	AR System Administration Open Users Form	01	AR System Administration Console	SEARCH
Table IN				
Table OUT				
ResList				
ScrollList				
Oracle				
ActiveLink				
Filter				
Escalation				
ActiveLinkGuide				
FilterGuide				
Permissions				
Set From this				
Set From other				
Menu				
Open From				
Other				
Open From This				
View				

The result is enhanced with the following information:

- Actl -> indicates the name of the object that does the open window
- Enable -> indicates if the object is active
- Open Form -> indicates the name of the form by which the open window is done
- Open Mode -> indicates the type of the "open window" done

The columns "Actl" and "Open Form" are additional links to:

- ✓ Actl -> displays the details of the object menu (see the chapters on the Actlink)
- ✓ Open Form -> shows the details of the form (see the chapter on the Form)

ARSurf

Relation

Previous

Next

Analog

Form

Menu

Function

Keyword

Units Exposed

Units Called

Unit

Pool

Strings

SelfPush / string

Qual / string

Qual / Selection

Ref

Run process

Series

External

Action

Filter

Escalation

Action Guide

Filter Guide

Filter Guide

Phon

Error

Action

Diff

Previous

Next

Statistics

Not Equal

Not Equal

Form

AR System Email Messages

Schema ID

1329

Type

REGULAR

Timestamp

2010/11/13 02:34:52

Overlay

Description

Mail View

User WebService

<http://services.arsurf.com/ARSystemEmailMessages>

Field

Index

Push To

Push From

Table IN

Table OUT

RealList

SortList

Oracle

ActiveLink

Filter

Escalation

ActiveLinkGuide

FilterGuide

Permissions

Self From this

Self From other

Menu

Open From

Other

Open From This View

View

Label

Overlay

ID

Default Admin View	Default Admin View		54870612
Web View	Default Admin View		54873497

Chapter 4 : Menu

The feature allows you to analyze the characteristics and the functionalities of the menus associated with them.

➤ To use the functionality

1. Click on the link "Menu" in the box "Relation"
2. Enter the name or part of the name of the investigated menu
3. Press Enter

ARSurf							
Relation	Menu						
	Menu Name						
	ar s						
	Search for 'ar s' - RecordCount : 28						
	Menu	Used	Type	Refresh	Timestamp	Overlay	
Arrest	AR System Actor	[x]	SEARCH	ON CONNECT	2018-11-13 02:13:23		
Form	AR System Administration: AddRealLog - Log Types Users	[x]	CHARACTER	ON CONNECT	2018-11-13 02:09:18		
Menu	AR System Administration: AddRealLog - Product Features	[x]	CHARACTER	ON CONNECT	2018-11-13 02:09:18		
Function	AR System Administration: Favorite URLs	[x]	CHARACTER	ON CONNECT	2018-11-13 02:19:01		
Keyword	AR System Administration: Log Files - API Form Names	[x]	FILE	ON CONNECT	2018-11-13 02:19:01		
Web Exposed	AR System Administration: Log Files - Alert Form Names	[x]	FILE	ON CONNECT	2018-11-13 02:19:01		
Web Called	AR System Administration: Log Files - Escalation Form Names	[x]	FILE	ON CONNECT	2018-11-13 02:19:01		
Doc	AR System Administration: Log Files - FT3 Form Names	[x]	FILE	ON CONNECT	2018-11-13 02:19:02		
Pool	AR System Administration: Log Files - Filter Form Names	[x]	FILE	ON CONNECT	2018-11-13 02:19:01		
Strings	AR System Administration: Log Files - SQL Form Names	[x]	FILE	ON CONNECT	2018-11-13 02:19:01		
SetPush / strings	AR System Administration: Log Files - Server Group Form Names	[x]	FILE	ON CONNECT	2018-11-13 02:19:01		
Qual / strings	AR System Administration: Log Files - Thread Form Names	[x]	FILE	ON CONNECT	2018-11-13 02:19:01		
Qual / Selection	AR System Administration: Log Files - User Form Names	[x]	FILE	ON CONNECT	2018-11-13 02:19:01		
Sql	AR System Administration: Server Information - Factors List	[x]	DATA DICTIONARY	ON CONNECT	2018-11-13 02:19:01		
But process	AR System Application	[x]	SEARCH	ON CONNECT	2018-11-13 02:13:23		
Scout	AR System Currency Center	[x]	SEARCH	ON CONNECT	2018-11-13 02:13:23		
External	AR System Email Associated Mailbox	[x]	SEARCH	ON OPEN	2018-11-13 02:41:14		
Active	AR System Email Email Attachments	[x]	SEARCH	ON OPEN	2018-11-13 02:41:18		
Filter	AR System Email Encodings	[x]	CHARACTER	ON CONNECT	2018-11-13 02:41:21		
Escalation							
Acti Guide							
Fit Guide							
Plugin							
Error							
Action							
Diff							
Statistics							
Not Found							
Not Found							

The result is enhanced with the following information:

- Menu -> indicates the name of the menu
- Used -> indicates if the menu is attached to any fields or active-links
- Type -> indicates the type of menu
- Refresh -> type of refresh associated with the menu
- Timestamp-> indicates the date of last object's modification
- Overlay -> displays if the object is overlay

Clicking on the name of the menu you can analyze more detailed information.

The screenshot shows the ARSurf application interface. On the left is a navigation pane with a tree view containing items like 'Relation', 'Arche', 'Form', 'Menu', 'Function', 'Keyword', 'Vocab Exposed', 'Vocab Called', 'Data', 'Pool', 'Strings', 'SetDash / strings', 'Qual / strings', 'Qual / Selection', 'Set', 'Run process', 'Server', 'External', 'ActiveLink', 'Filter', 'Escalation', 'Acti Guide', 'Fit Guide', 'Plugin', 'Error', 'Action', 'Diff', 'Statistics', 'Not Exist', and 'Not Equal'. The main area displays details for a selected menu:

- Menu:** AR System Actor
- Used:** ☒
- Type:** SEARCH
- Refresh:** ON CONNECT
- Timestamp:** 2010/11/13 02:13:25
- Overlay:** ☐

Below this, there are sections for 'Definition', 'Form', 'Label', 'Value Field', 'Sort On Label', 'Qualification', and 'Linked to Field'. The 'Form' section shows 'Form: AR System Actor View'. The 'Label' section shows 'Label Field' and 'Label'. The 'Value Field' section shows 'Value Field: Actor'. The 'Sort On Label' section shows 'Sort On Label: TRUE'. The 'Qualification' section shows 'Qualification for Schema AR System Actor View: 'Actor' != \$NULL\$' and 'Qualification for Schema AR System User Application Actor: 'Actor' != \$NULL\$'. The 'Linked to Field' section has a table with columns 'Field' and 'Form'.

Field	Form
Actor	AR System Actor View
Actor	AR System User Application Actor

At the bottom, there is an 'ActiveLink' section.

The result is enhanced with the following information:

- Menu -> indicates the name of the menu
- Used -> indicates if the menu is attached to any fields or active-links
- Type -> indicates the type of menu
- Refresh -> type of refresh associated with the menu
- Timestamp -> indicates the date of last object's modification
- Overlay -> displays if the object is overlay
- Form -> indicates the name of the form that is referenced by the menu
- Label -> indicates which field is referenced by the label of the menu
- Value Field -> indicates which field is referenced by the value of the menu
- Sort On Label -> indicates if there is any sort on the menu
- Qualification -> indicates the "where condition" of the menu
- Linked to Field -> indicates which field is related to the menu
- Field -> indicates the name of the field
- Form -> indicates the form that has a field in which the menu is attached
- ActiveLink-> indicates whether there is any active link that performs a change field

The columns "Field" and "Form" are additional links to:

- ✓ Field -> shows the details of the field
- ✓ Form -> shows the details of the form (see the chapter on the Form)

Capter 5 : Function

The feature allows you to analyze the function used in the application.

➤ To use the functionality

1. Click on the link "Function" in the box "Relation"

ARSurf		
Relation	Function	
	Function	Used
Aradef	DATE	☒
Form	TIME	☒
Menu	MONTH	☒
Function	DAY	☒
Keyword	YEAR	☒
Webs Exposed	WEEKDAY	☒
Webs Called	HOUR	☒
Dso	MINUTE	☒
Pool	SECOND	☒
Strings	TRUNC	☒
SetPush / strings	ROUND	☒
Qual / strings	CONVERT	☐
Qual / Selection	LENGTH	☒
Sql	UPPER	☒
Run process	LOWER	☒
Server	SUBSTR	☒
External	LEFT	☒
Actlink	RIGHT	☒
Filter		
Escalation		
Actl Guide		
Filt Guide		
Plugin		
Error		
Action		
Diff		
Statistics		
Not Exist		
Not Equal		

The result is enhanced with the following information:

- Function -> name of the function
- Used -> indicates if the function is used in the system

Clicking on the name of the function you can analyze more detailed information.

ARSurf				
Relation	Function	RIGHTC		
	Used	☒		
	All	▼		
ObjType	Object	Form	Enable	
FILTER	AR.System.Administration.ServerInformation.SaveAttachments.Panel	AR.System.Administration.ServerInformation.SaveAttachment	☒	
FILTER	AR.System.Administration.ServerInformation.SaveAttachments.GetAttachmentNameSize	AR.System.Administration.ServerInformation.SaveAttachment	☒	

The result is enhanced with the following information:

- ObjType -> type of object that uses the function
- Object -> name of the object that uses the function
- Form -> name of the form related to the object
- Enable -> indicates if the object is enabled

The result can be further filtered by using the "Type" field

The columns "Object" and "Form" are additional links to:

- ✓ Object -> displays the details of the object (see the chapters on the Actlink, Escalation, Filter)
- ✓ Form -> shows the details of the form (see the chapter on the Form)

Capitolo 6 : Keyword

The feature allows you to analyze the keywords used in the application.

➤ To use the functionality

1. Click on the link "Keyword" in the box "Relation"

ARSurf		
Relation	Keywords	
	Keyword	Used
Arsoel	\$DEFAULTS	☒
Form	\$USERS	☒
Menu	\$TIMESTAMPS	☒
Function	\$TIME	☒
Keyword	\$DATES	☒
Web Exposed	\$SCHEMAS	☒
Web Called	\$SERVERS	☒
Dso	\$WEEKDAYS	☒
Pool	\$GROUPS	☒
Strings	\$OPERATIONS	☒
SetPush / strings	\$HARDWARES	☐
Qual / strings	\$LOSS	☒
Qual / Selection	\$DATABASES	☒
Sql	\$LASTIDS	☒
Run process	\$LASTCOUNTS	☒
Server	\$VERSIONS	☒
External	\$VUS	☒
Actlink	\$GUIDETEXTS	☐
Filter		
Escalation		
Actl Guide		
Filt Guide		
Plugin		
Error		
Action		
Drift		
Statistics		
Not Exist		
Not Equal		

The result is enhanced with the following information:

- Keyword -> name of the keyword
- Used -> shows if the keyword is used in the system

Clicking on the name of the keyword you can analyze more detailed information.

ARSurf							
Relation	Keyword	STCPPORTS					
	Used	☒					
	All	☐					
	ObjType	Object	Form	Enable	Value	Desc	
	FILTER	AR_SignalCache	Server Events	☐			
	FILTER	AR_SignalAlert	Server Events	☐			

The result is enhanced with the following information:

- ObjType -> type of object that uses the keyword
- Object -> name of the object that uses the keyword
- Form -> name of the form related to the object
- Enable -> indicates if the object is enabled
- Value -> indicates a possible value passed to the keywords
- Desc-> describes the value entered in the "Value" column for the keyword "CLIENT-TYPE"

The result can be further filtered by using the "Type" field

The columns "Object" and "Form" are additional links to:

- ✓ Object -> displays the details of the object (see the chapters on the Actlink, Escalation, Filter)
- ✓ Form -> shows the details of the form (see the chapter on the Form)

Capter 7 : Webs Exposed

The feature allows you to analyze the web service used in the application.

➤ To use the functionality

1. Click on the link "Webs Exposed" in the box "Relation"

ARSurf			
Relation	Webservice	Timestamp	Overlay
	AAS_AccompInterface_Create_WS	2012-12-08 21:41:35	Base
	AAS_AccompInterface_WS	2012-12-08 21:41:35	Base
Archeif	ARSystemAdminRegistration	2012-06-24 13:58:56	Base
Form	AST_PurchaseLocation_QueryModify_WS	2012-12-08 23:29:54	Base
Menu	AST_PurchaseOrderInterface_WS	2012-12-08 23:29:53	Base
Function	AST_PurchaseOrder_QueryModify_WS	2012-12-08 23:29:53	Base
Keyword	AST_PurchaseOrder_WS	2012-12-08 23:29:53	Base
Webs Exposed	AST_PurchaseOrder_WS_noDate	2012-12-08 23:29:53	Base
Webs Called	AST_PurchaseRequesterInterface_Create_WS	2012-12-08 23:29:53	Base
Dao	AST_PurchaseRequester_QueryModify_WS	2012-12-08 23:29:53	Base
Pool	AST_WorkInfoInterface_Create_WS	2012-12-08 23:29:54	Base
Strings	CAL_EventParamInterface_WS	2012-12-08 20:31:47	Base
SetPath / strings	CAL_EventParamInterface_WS	2012-12-08 20:31:47	Base
Qual / strings	CAL_EventInterface_Create_WS	2012-12-08 20:31:48	Base
Qual / Selection	CAL_EventInterface_WS	2012-12-08 20:31:48	Base
Sql	CAL_Event_WS	2012-12-08 20:31:47	Base
Run process	CH0_ChangeInterface_Create_WS	2012-12-09 08:06:34	Base
Server	CH0_ChangeInterface_WS	2012-12-09 08:06:34	Base
External	CH0_ChangeInterface_WS	2012-12-08 09:07:11	Base
Active	HPO_IncidentInterface_Create_WS	2012-12-09 07:52:47	Base
Filter	HPO_IncidentInterface_WS	2012-12-09 08:43:34	Base
Escalation	PBM_KnowledgeInterface_WS	2012-12-09 08:43:35	Base
Acti Guide	PBM_ProblemInterface_Create_WS	2012-12-09 08:43:33	Base
Elt Guide	PBM_ProblemInterface_WS	2012-12-09 08:43:34	Base
Page	PBM_SolutionInterface_WS		
Error			
Action			
Diff			
Statistics			
Not Found			
Not Equal			

The result is enhanced with the following information:

- Webservice -> indicates the name of the object in which a web service is defined
- Timestamp -> indicates the timestamp of the last object's modification
- Overlay -> displays if the object is overlay

Clicking on the name of the webservice you can analyze more detailed information.

ARSurf				
Relation	Webservice: Group			
	Timestamp: 2010/11/13 02:13:22			
	Overlay			
Operation	Type	Input Mapping	Output Mapping	
OpCreate	create	CreateInputMap	CreateOutputMap	View Mapping
OpGet	get	GetInputMap	GetOutputMap	View Mapping
OpGetList	get	GetListInputMap	GetListOutputMap	View Mapping
OpSet	set	SetInputMap	SetOutputMap	View Mapping

The result is enhanced with the following information:

- Operation -> name of the operation defined in the webservice
- Type -> type of operation defined in the webservice
- Input Mapping -> name of the input mapping
- Output Mapping -> name of the output mapping
- View Mapping -> shows all the fields used in the input and output mapping

ARSurf					
Relation	Webservice		Group		
	Timestamp		2010/11/13 02:13:22		
	Overlay				
Arxdef Form Menu Function Keyword Webv_Expanded Webv_Caller Doc Field Storage GetFlash/.storage Goal/.storage Goal/.Selection Ed Run_process Search External Action Filter Execution Act_Guide Fit_Guide Plugin Error Action Diff					
Operation		Type	Input Mapping	Output Mapping	
OpCreate	create		CreateInputMap	CreateOutputMap	View Mapping
OpGet	get		GetInputMap	GetOutputMap	View Mapping
OpGetList	get		GetListInputMap	GetListOutputMap	View Mapping
OpSet	set		SetInputMap	SetOutputMap	View Mapping
Form		Field	Direction	Tag	
Group	Assigned To		INPUT	Assigned_To	
Group	Comments		INPUT	Comments	
Group	Computed Group Definition		INPUT	Computed_Group_Definition	
Group	Create		INPUT	Create	
Group	Flaming FTS License		INPUT	Flaming_FTS_License	
Group	Flaming License		INPUT	Flaming_License	
Group	Group Category		INPUT	Group_Category	
Group	Group ID		INPUT	Group_ID	
Group	Group Name		INPUT	Group_Name	
Group	Group Number		INPUT	Group_Number	
Group	Group Type		INPUT	Group_Type	
Group	Groups		INPUT	Groups	
Group	Instance ID		INPUT	Instance_ID	
Group	Long Group Name		INPUT	Long_Group_Name	
Group	Object ID		INPUT	Object_ID	
Group	Status		INPUT	Status	

The result is enhanced with the following information:

- Form -> name of the form that is referenced by the web service
- Field -> name of the field that is defined in the web service
- Direction -> shows if the field is used for input or output mapping
- TAG-> shows the name in the tag

The columns "Form" and "Field" are additional links to:

- ✓ Form -> shows the details of the form (see the chapter on the Form)
- ✓ Field -> shows the details of the field

Chapter 8 : Webs Called

The feature allows you to analyze the web service consumed by the application.

➤ To use the functionality

1. Click on the link "Webs Called" in the box "Relation"



The result is enhanced with the following information:

- Endpoint -> indicates the endpoint of the consumed web service
- Name -> name of the consumed web service
- File -> shows the path of the uploaded file to invoke the web service

Clicking on the name of the endpoint you can analyze more detailed information.

ARSurf									
Relation	Name: FaxXML								
	Endpoint: http://10.30.214.83/services/								
	File: http://10.30.214.83/webservices/Qual in Te web								
	ObjType	OBJNAME	Object	Form	Enable	Operation	Doc/Rpc	Enc/List	
	FILTER	WebServiceTCCINT2	WebServiceTCCINT2	Rick ELAB		SortQual	document	literal	View Mapping
	Input/Output	Field	Form	Tag					
	INPUT	TRACCLOTEST	Rick ELAB	TICKET_ID					
	INPUT	TIPO_EVENTO	Rick ELAB	TIPO_EVENTO					
	INPUT	SOURCE	Rick ELAB	SOURCE					
	INPUT	OM_SITE_ID	Rick ELAB	OM_SITE_ID					
	INPUT	ACCOUNT_NUMBER	Rick ELAB	ACCOUNT_NUMBER					
	OUTPUT	Result	Rick ELAB	Result					
	OUTPUT	Error	Rick ELAB	Error					
	OUTPUT	Detail	Rick ELAB	Detail					

The result is enhanced with the following information:

- Objtype -> shows the type of object that invokes the web service
- Objectname -> shows the name of the web service
- Object -> shows the name of the object that invokes the web service
- Form -> name of the form that is referenced by the object
- Enable -> indicates if the object is active
- Operation -> name of the operation invoked in the web service
- Doc/Rpc -> indicates the type of the consumed web service
- Enc/List-> indicates the type of Enc/List of the consumed web service
- View Mapping -> shows the details of the fields in the called web service
- Input/Output -> indicates if the field is used as input or output mapping
- Field -> name of the field defined for the input
- Form -> name of the form that is referenced by the field
- TAG -> name of the field in the webservice tag

The columns "Object", "Form" and "Field" are additional links to:

- ✓ Object -> displays the details of the object (see the chapters on the Actlink, the Escalation, the Filter, the DSO)
- ✓ Form -> shows the details of the form (see the chapter on the the Form)
- ✓ Field -> shows the details of the field

Capter 9: DSO

The feature allows you to analyze the DSO used in the application.

➤ To use the functionality

1. Click on the link "DSO" in the box "Relation"
2. Enter the name or part of the name of the investigated DSO
3. Press Enter

Dns	Enable	From Server	From Schema	To Server	To Schema	Used	Timestamp
AR System Email Messages Archive	☒	localhost:8080	AR System Email Messages	localhost:8080	AR System Email Messages Archive	☒	2017-04-15 11:48:30

The result is enhanced with the following information:

- Dso -> shows the name of the DSO defined in the system
- Enable -> shows if the DSO is active
- From Server -> shows the starting server of DSO
- From Schema -> shows the starting form of DSO
- To Server -> shows the arrival server of DSO
- To Schema -> shows the arrival form of DSO
- Used -> shows if the DSO is called by any filters

- Timestamp -> shows the last modification date of the DSO

The columns "DSO", "From Schema" and "To Schema" are additional links to:

- ✓ DSO-> see the picture below
- ✓ From Schema -> shows the details of the form (see the chapter on the Form)
- ✓ To Schema -> shows the details of the form (see the chapter on the Form)

Clicking on the name of DSO you can analyze more detailed information.

ARSurf		
Relation	Dso	AR System Email Messages Archive
	Enable	☒
	From Server	scott.intranet.fr
	From Schema	AR System Email Messages
	To Server	scott.intranet.fr
	To Schema	AR System Email Messages ARCH
	Used	☒
	Timestamp	2007-04-16 11:48:50
	When Update	Immediately
	Transfer Mode	Copy+Delete
	Duplicate Action	Overwrite
	Pattern Match	No
	Required Fields	No
	Retry Time	Only Once
	Mapping	By Fieldname
	Mapping Return	By FieldID
	Qualification	
	Row-ID: NONE	
	Objects	
	Mapping	
	Field	Value
	Field	ValueDesc
	Form ID: DO NOT DELETE	Form ID: DO NOT DELETE
	Actions	Actions
	Display Advanced Options	Display Advanced Options
	In Reply To	In Reply To

The result is enhanced with the following information:

- Dso -> shows the name of the DSO defined in the system
- Enable -> shows if the DSO is active
- From Server -> shows the starting server of the DSO
- From Schema -> shows the starting form of the DSO
- To Server -> shows the arrival server of the DSO
- To Schema -> shows the arrival form of the DSO
- Used -> shows if the DSO is called by some filters
- Timestamp -> shows the last modification date of the DSO
- When Update -> shows the type of update used in the DSO

- Transfer mode -> shows the type of the transfer mode used
- Duplicate Action -> shows if the record is duplicated or overwritten to match the request id
- Pattern mach -> shows if the pattern menus must be respected
- Required Field -> shows if the required fields must be filled
- Retry Time -> shows the retry policy
- Mapping -> shows the type of used mapping
- Mapping return -> shows the type of mapping used in the return
- Object -> shows the filters that call the DSO
- Mapping -> shows the defined mapping
- Return Mapping -> shows the mapping defined for the return

Capter 10: Pool

The feature allows you to analyze the Pool relating to the DSO defined in the application

➤ To use the functionality

1. Click on the link "Pool" in the box "Relation"
2. Enter the name or part of the name of the investigated pool
3. Press Enter

ARSurf				
Relation	Pool			
Pool Name	arsurf			
	Ricerca per 'arsurf' - RecordCount: 1			
Pool	Enable	Used	Timestamp	
ARSurf	10	10	2016-04-11 11:08:17	

The result is enhanced with the following information:

- Pool-> shows the name of the pool
- Enable -> shows if the pool is active
- Used -> shows if the pool is called by any filters
- Timestamp -> shows the last modification date of the pool

Clicking on the name of the pool you can analyze all filters that use it.

ARSurf						
Relation	Pool	ARStent				
	Trable	☒				
	Used	☒				
	Timestamp	2010/04/11 13:06:37				
Aradef						
Form						
Menu						
Function						
Keyword						
Webb Exposed						
Webb Called						
Data						
Pool						
Strings						
SetPush / string						
Qual / string						
Qual / Selection						
Sql						
Run process						
Server						
External						
Active						
File						
Escalation						
Acti Guide						
File Guide						
Plugin						
Error						
Action						
Diff						
Statistics						
Not Exist						
Not Equal						

ObjType	Object	Form	Enable	DSO	DSO Enable
FILTER	ARSM Commands Appname State Login DSO	ARSMessages	☒	ARSM - 48 LoginNameDSO_TCC.TNO	☒
FILTER	ARSM Commands Appname Data Update Access Login DSO	ARSMessages	☒	ARSM - 48 LoginNameDSO_TCC.TNO	☒
FILTER	ARSM COMMANDS CREATE/DELETE LOGIN DSO/INTO	ARSMessages	☒	ARSM Filter Create/Name IAM TCC	☒
FILTER	ARSM 48 LoginName Subnet	ARSMessages	☒	ARSM - 48 LoginNameDSO_TCC.TNO	☒
FILTER	ARSM 48 LoginName Subnet	ARSMessages	☒	ARSM - 48 LoginNameDSO_TCC.TNO	☒
FILTER	ARSM 48 LoginName DSO	ARSMessages	☒	ARSM 48 LoginName TCC	☒
FILTER	ARSM DSO Change Password	ARSMessages	☒	ARSM 48 LoginName TCC	☒
FILTER	ARSM DSO Change Password	ARSMessages	☒	ARSM 48 LoginName TCC	☒

The result is enhanced with the following information:

- ObjType-> shows the type of object that uses the pool
- Object -> name of the object that uses the pool
- Form -> shows the name of the form on which the object is defined
- Enable-> shows if the object is active
- DSO-> shows the DSO called back
- DSO Enable -> shows if the DSO is called active

The columns "Object", "Form" and "DSO" are additional links to:

- ✓ Object-> shows the details of the object (see the chapter on the Filter)
- ✓ Form -> shows the details of the form (see the chapter on the Form)
- ✓ DSO -> shows the details of the DSO (see the chapter on the DSO)

Capter 11: Strings

This feature allows you to search for the strings "hardcoded" in the objects. The string is searched both in "run if" of the objects and in the actions. For example, if you search for the "New" string, this feature will show every string that contains the searched value.

➤ To use the functionality

1. Click on the link "Strings" in the box "Relation"
2. Enter the name or part of the name of the investigated string
3. Press Enter



The result is enhanced with the following information:

- Value Type-> shows the type of the searched string
- Strings -> shows the complete string found in the application

Clicking on the name of the string you can analyze all the objects that use it

ARSurf					
Relation	Strings	@@ Application-Confirm-Group 1			
	Value Type	CHAR			
	AI				
	ObjType	Object	Enable	Order	Timestamp
	ACTIVELINK	[[M-58_Controllermon_CheckAdminPermission]]	☒	82763	2011-10-08 19:12:36
	FILTER	@@ Application-Confirm-Group 1/0000000000	☒	4	1970-01-01 00:00:00

The result is enhanced with the following information:

- ObjType-> shows the type of the found object
- Object -> shows the name of the found object
- Enable-> shows if the object is active
- Order -> shows the order in which the object has been defined
- Timestamp -> date of the last modification made on the object

The column "Object" is an additional link to:

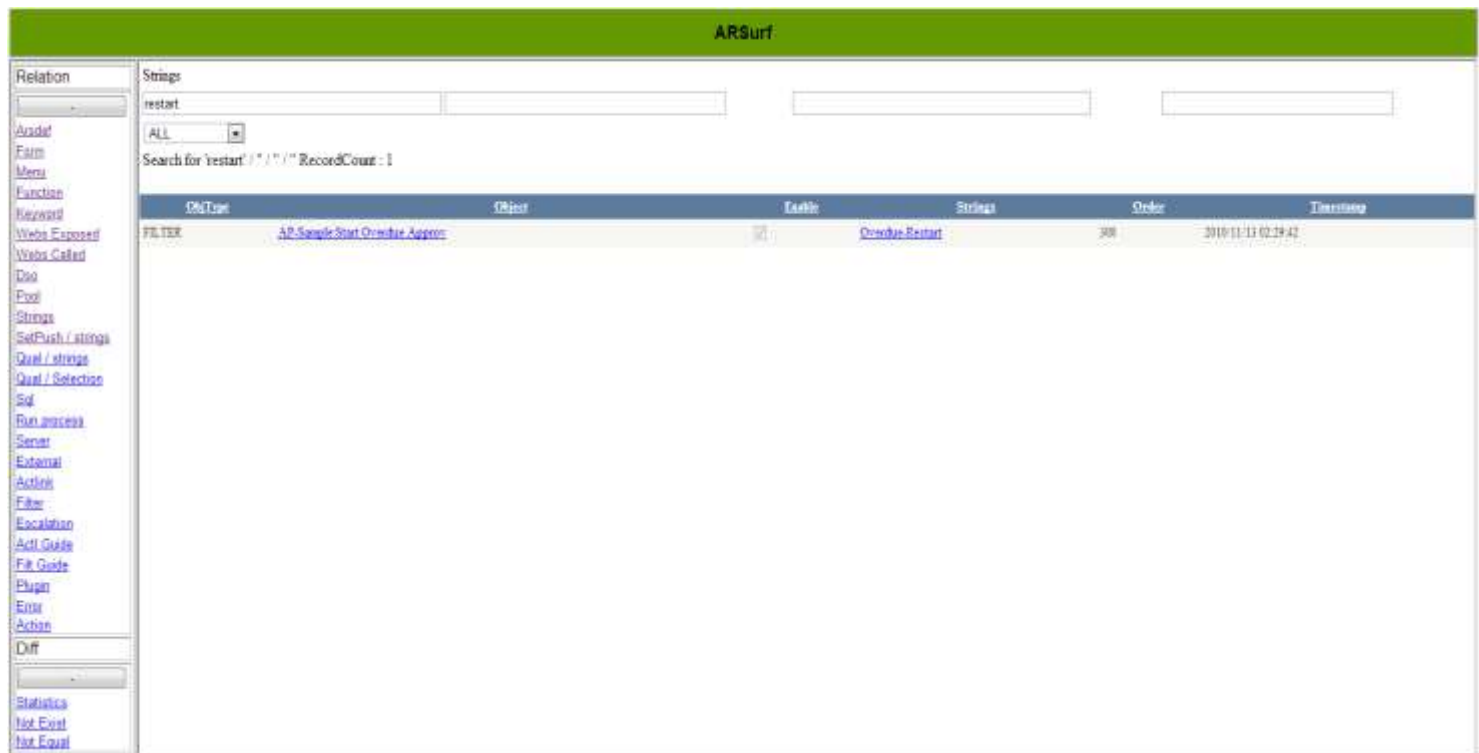
- ✓ Object-> displays the details of the object (see the chapters on the Actlink, the Escalation, the Filter, the DSO)

Capter 12: SetPush/ strings

This feature allows you to search for the strings "hardcoded" in the set field actions or push field of the objects defined in the application. For example, if you search for the "Restart" string, this feature will show all objects that contain this value in the action of SetField or Push. This feature allows you to search simultaneously up to 4 strings.

➤ To use the functionality

1. Click on the link "SetPush/ strings" in the box "Relation"
2. Enter the name or part of the name of the investigated string
3. Press Enter



The result is enhanced with the following information:

- ObjType-> shows the type of the found object
- Object -> shows the name of the found object
- Enable-> shows if the object is active
- Strings-> shows the complete string found in the application
- Order -> shows the order in which the object has been defined

- Timestamp -> date of the last modification made on the object

The columns "Object" and "Strings" are additional links to:

- ✓ Object-> displays the details of the object (see the chapters on the Actlink, the Escalation, the Filter, the DSO)
- ✓ Strings -> shows all the objects that contain the string

Capter 13: Qual/ strings

This feature allows you to search for the strings "hardcoded" in the qualifications of the objects defined in the application. For example, if you search for the "Restart" string, this feature will show all objects that contain the searched value in the qualification. This feature allows you to search simultaneously up to 4 strings.

➤ To use the functionality

1. Click on the link "Qual/ strings" in the box "Relation"
2. Enter the name or part of the name of the investigated string
3. Press Enter

The screenshot shows the ARSurf application interface. On the left is a 'Relation' sidebar with a list of links including 'Armed', 'Farm', 'Menu', 'Function', 'Keyword', 'Web Exposed', 'Web Called', 'Doc', 'Email', 'Strings', 'SetPush / strings', 'Qual / strings', 'Qual / Selection', 'Set', 'Run process', 'Serial', 'External', 'Active', 'Filter', 'Escalation', 'Act Guide', 'File Guide', 'Plugin', 'Error', 'Action', 'Diff', 'Statistics', 'Not Found', and 'Not Equal'. The main area is titled 'String on Qualification'. It features a search bar with the text 'restart' and a dropdown menu set to 'ALL'. Below the search bar, it says 'Search for 'restart' / " / " / " RecordCount : 1'. A table displays the search results with the following columns: ObjType, Action, Object, Enable, Strings, Order, and Timestamp. The table contains one row: 'FILTER', 'RUN IF', 'AP Sample Start Cost Approval', 'True', 'Combiner Restart', '390', and '2019-11-13 12:29:42'.

ObjType	Action	Object	Enable	Strings	Order	Timestamp
FILTER	RUN IF	AP Sample Start Cost Approval	True	Combiner Restart	390	2019-11-13 12:29:42

The result is enhanced with the following information:

- ObjType-> shows the type of the found object
- Action -> shows the action that has the searched string
- Object -> shows the name of the found object

- Enable-> shows if the object is active
- Strings-> shows the complete string found in the application
- Order -> shows the order in which the object has been defined
- Timestamp -> date of the last modification made on the object

The columns "Object" and "Strings" are additional links to:

- ✓ Object-> displays the details of the object (see the chapters on the Actlink, the Escalation, the Filter, the DSO)
- ✓ Strings -> shows all the objects that contain the string

Capter 14: Qual/ Selection

This feature allows you to search for the strings "hardcoded" in the qualifications for the "selection fields" of the objects defined in the application. For example, if you search for the "Restart" string, this feature will show all objects that contain in the qualification a selection field related to the value "Restart". This feature allows you to search simultaneously up to 4 strings.

➤ To use the functionality

1. Click on the link "Qual/ Selection" in the box "Relation"
2. Enter the name or part of the name of the investigated string
3. Press Enter

The screenshot shows the ARSurf application interface. On the left is a sidebar with a 'Relation' menu containing various categories like 'Andal', 'Form', 'Menu', 'Function', 'Keyword', 'Web Exposed', 'Web Called', 'Doc', 'Email', 'Strings', 'SetPush / strings', 'Qual / strings', 'Qual / Selection', 'Set', 'Run process', 'Secret', 'External', 'Active', 'Filter', 'Escalation', 'Act Guide', 'File Guide', 'Plugin', 'Error', 'Action', 'Diff', 'Statistics', 'Not Found', and 'Not Equal'. The main window is titled 'Selection-value on Qualification'. It features a 'Selection Value' input field with 'restart' entered, a dropdown menu set to 'ALL', and a search status 'Search for 'restart' / ' / ' / ' RecordCount : 1'. Below this is a table with the following data:

ObjType	Action	Object	Enable	Strings	Order	Timestamp
FILTER	RUN UP	AP-SampleRestart	☒	{Approval Error Approved Awaiting Approval Restart Rejected	100	2019-11-13 12:29:42

The result is enhanced with the following information:

- ObjType-> shows the type of the found object
- Action -> shows the action that has the searched string
- Object -> shows the name of the found object
- Enable-> shows if the object is active
- Strings-> shows the complete string found in the application

- Order -> shows the order in which the object has been defined
- Timestamp -> date of the last modification made on the object

The column "Object" is an additional link to:

- ✓ Object-> displays the details of the object (see the chapters on the Actlink, the Escalation, the Filter, the DSO)

ARSurf			
Relation	sql SELECT login_name FROM user_x WHERE (sqllogin_login = 'Citrus Terrace') AND login_name NOT IN (SELECT eventio_login FROM cfg_loginseventio_login WHERE type_record = 1) ORDER BY login_name		
	ObjType	Object	Enable
Archeol Farm Menu Function Keywords Virus Exposed Virus Called Dns Pool Strings SetPush/strings Qual / strings Qual / Selection Sql Run process Service External Actlink Filter Escalation Acti Guide Filt Guide Plugin Error Action Diff Statistics Not Found Not Equal	MDNU	CFG Logins eventio_login Login	[2]

The result is enhanced with the following information:

- ObjType-> shows the type of the object that uses the sql command
- Object -> name of the object that has the sql command
- Enable-> shows if the object is active

The column "Object" is an additional link to:

- ✓ Object-> displays the details of the object (see the chapters on the Actlink, the Escalation, the Filter, the Menu)

Chapter 16: Run Process

This feature allows you to search for every "run process" defined in the application.

➤ **To use the functionality**

1. Click on the link "Run Process" in the box "Relation"
2. Enter the run process or part of it to be found
3. Press Enter



The result is enhanced with the following information:

- Command-> shows the list of "run processes" found in the application in which the searched string is present

Clicking on the link you can analyze the object that uses the command.

ARSurf			
Relation	Command Application-Confirm-Group 1		
	Type	Object	Enable
Armed			
Arm			
Menu			
Function			
Keywords			
Video Exposed			
Video Called			
Do			
Pool			
Strings			
RelEvent-strings			
Qual / strings			
Qual / Selection			
Set			
Run process			
Server			
External			
Actlink			
Filter			
Escalation			
Acti Guide			
Fit Guide			
Plugin			
Error			
Action			
Diff			
Statistics			
Not Found			
Not Equal			

The result is enhanced with the following information:

- Type-> shows the type of object that uses the run process
- Object -> name of the object that has the run process
- Enable-> shows if the object is active

The column "Object" is an additional link to:

- ✓ Object-> displays the details of the object (see the chapters on the Actlink, the Escalation, the Filter)

Chapter 17: Server

This feature allows you to search for the references to different servers present in the analyzed application

➤ To use the functionality

1. Click on the link "Server" in the box "Relation"

ARSurf		
Relation	Different Server	
	Server	Field
Anchor	\$173285	ServerName.2
Form	\$173285	
Menu	\$10000145	Form.Server
Function	10.31.67.53	
Keyword		
Web.Exposed		
Web.Called		
Doc		
Pool		
Strings		
SetPush / strings		
Qual / strings		
Qual / Selection		
Sql		
Run process		
Server		
External		
Action		
Filter		
Escalation		
App Guide		
Win Guide		
Plugin		
Error		
Action		
Diff		
Statistics		
Not Exist		
Not Equal		

The result is enhanced with the following information:

- Server-> shows the found server
- Field -> shows the name of the field that contains the value of the name server

Clicking on the link in the column "Server", you can analyze the objects in which the value of the displayed server is used.

ARSurf			
Relation	Server	Field	
	5171283	Server Name 2	
	Type	Object	Enable
Asset	ACTIVE LINK	ReportCreator ShareTitleDa	☐
Form	ACTIVE LINK	ReportCreator ShareFormDa	☐
Menu	ACTIVE LINK	ReportCreator ShareMenuDa	☐
Function	ACTIVE LINK	ReportCreator ShareFunctionDa	☐
Keyword	ACTIVE LINK	ReportCreator ShareKeywordDa	☐
Web Exposed	ACTIVE LINK	ReportCreator ShareWebExposedDa	☐
Web Called	ACTIVE LINK	ReportCreator ShareWebCalledDa	☐
Dns	ACTIVE LINK	ReportCreator ShareDnsDa	☐
Email	ACTIVE LINK	ReportCreator ShareEmailDa	☐
Strings	ACTIVE LINK	ReportCreator ShareStringsDa	☐
GetPush / strings	ACTIVE LINK	ReportCreator ShareGetPushDa	☐
Qual / strings	ACTIVE LINK	ReportCreator ShareQualDa	☐
Qual / Selection	ACTIVE LINK	ReportCreator ShareQualSelDa	☐
Sql	ACTIVE LINK	ReportCreator ShareSqlDa	☐
Run process	ACTIVE LINK	ReportCreator ShareRunProcessDa	☐
Search	ACTIVE LINK	ReportCreator ShareSearchDa	☐
External	ACTIVE LINK	ReportCreator ShareExternalDa	☐
Active	ACTIVE LINK	ReportCreator ShareActiveDa	☐
Filter	ACTIVE LINK	ReportCreator ShareFilterDa	☐
Escalation	ACTIVE LINK	ReportCreator ShareEscalationDa	☐
Act Guide	ACTIVE LINK	ReportCreator ShareActGuideDa	☐
File Guide	ACTIVE LINK	ReportCreator ShareFileGuideDa	☐
Plugin	ACTIVE LINK	ReportCreator SharePluginDa	☐
Form Action	ACTIVE LINK	ReportCreator ShareFormActionDa	☐
Diff	ACTIVE LINK	ReportCreator ShareDiffDa	☐
	ACTIVE LINK	ReportCreator ShareFieldDa	☐
Statistics	ACTIVE LINK	ReportCreator ShareStatisticsDa	☐
Not Equal	ACTIVE LINK	ReportCreator ShareNotEqualDa	☐
Not Equal	ACTIVE LINK	ReportCreator ShareNotEqualDa	☐

The result is enhanced with the following information:

- Type-> shows the type of object that uses the server
- Object -> name of the correspondent object
- Enable-> shows if the object is active

The column "Object" is an additional link to:

- ✓ Object-> displays the details of the object (see the chapters on the Actlink, the Escalation, the Filter)

Chapter 18: External

This feature allows you to search for all the objects that use the External variable

➤ To use the functionality

1. Click on the link "External" in the box "Relation"

ARSurf				
Relation	External			
	Type	Object	Enable	ExternalID
Analyst	ACTIVELINK	PBM/PMC/Display/Selected_110_OpenPSEForm	☒	PBM/Problem Management Console
Entity	TABLE	zID_TableQual01	☐	PBM/PMC/Display/Selected_110_OpenPSEForm
Menu	ARCHIVE	PBM/Problem Management Console	☐	zID_TableQual01
Function	ACTIVELINK	PBM/PMC/Display/Selected_110_OpenADBForm	☒	PBM/Problem Management Console
Keyword	TABLE	zID_TableQual01	☐	CHG/CHG/Display/Selected_110_OpenTaskForm
Web Exposed	ARCHIVE	CHG/Change Management Console	☐	zID_TableQual01
Web Called	ACTIVELINK	CHG/CHG/Display/Selected_110_OpenChangeForm	☒	CHG/Change Management Console
Data	TABLE	zID_TableQual01	☐	WOL/WOC/Console/Metrics_0_SetCountsResolved
Pool	ARCHIVE	WOL/WorkOrderConsole	☐	zID_TableQual01
Strings	ACTIVELINK	WOL/WOC/Console/Metrics_0_SetCountsUnassigned	☒	WOL/WorkOrderConsole
SetPath / strings	TABLE	zID_TableQual01	☐	WOL/WOC/Console/Metrics_0_SetCountsPending
Qual / Selection	ARCHIVE	WOL/WorkOrderConsole	☐	zID_TableQual01
Set	ACTIVELINK	WOL/WOC/Console/Metrics_0_SetCountsOpen	☒	WOL/WorkOrderConsole
But process	TABLE	zID_TableQual01	☐	WOL/WOC/Console/Metrics_0_SetCountsResolved
Server	ARCHIVE	WOL/WorkOrderConsole	☐	zID_TableQual01
External	ACTIVELINK	WOL/WOC/Console/Metrics_0_SetCountsOpen	☒	WOL/WorkOrderConsole
Action	TABLE	zID_TableQual01	☐	WOL/WOC/Console/Metrics_0_SetCountsResolved
Filter	ARCHIVE	WOL/WorkOrderConsole	☐	zID_TableQual01
Escalation	ACTIVELINK	WOL/WOC/Console/Metrics_0_SetCountsUnassigned	☒	WOL/WorkOrderConsole
Act Guide	TABLE	zID_TableQual01	☐	WOL/WOC/Console/Metrics_0_SetCountsPending
File Guide	ARCHIVE	WOL/WorkOrderConsole	☐	zID_TableQual01
Plugin	ACTIVELINK	WOL/WOC/Console/Metrics_0_SetCountsOpen	☒	WOL/WorkOrderConsole
Error	TABLE	zID_TableQual01	☐	WOL/WOC/Report/WorkInfo_100_NonEnglish
Action	ARCHIVE	WOL/WorkOrderConsole	☐	zID_ReportQualification
Diff	ACTIVELINK	WOL/WOL/View/Report_110_WorkInfo_NonEN	☒	WOL/WorkOrder
	TABLE	zID_ReportQualification	☐	WOL/WOC/Report/WorkInfo_100_0

The result is enhanced with the following information:

- Type-> shows the type of object that uses the External variable
- Object -> name of the object that uses the command
- Enable-> shows if the object is active
- External -> shows the field in which there is the value passed to the external variable

The columns "Object" and "External" are additional links to:

- ✓ Object-> displays the details of the object (see the chapters on the Actlink, the Escalation, the Filter)
- ✓ External-> shows the details of the field

Capitolo 19: Actlink

This feature allows you to analyze the actlinks present in the application

➤ To use the functionality

1. Click on the link "Actlink" in the box "Relation"
2. Enter the name or part of it to be found. For example, if you want to analyze the actlinks whose names start with "arsystem", you must insert the following value in the field:

ActiveLink Name = arsystem

On the contrary, inserting the wildcard '%', all the objects are searched.

3. Press Enter

ARSurf						
Relation	Active Link					
ActiveLink Name	arsystem					
Search for 'arsystem' - RecordCount: 7						
	Active Link	Enable	Executed On	Order	Timestamp	Order
Arched	ARSystemUserDefaultCustomCheckVMT	☒	Submit,Modify;	0	2018/11/13 02:17:01	
Form	ARSystemUserDefaultCustomVMT	☒	Return,Display,SetDefault,WindowsLoaded;	0	2018/11/13 02:17:01	
Menu	ARSystemUserDefaultCustomVMT	☒	Return,Display,SetDefault,WindowsLoaded;	0	2018/11/13 02:17:01	
Function	ARSystemUserDefaultCustomVMT	☒	WindowsOpen;	0	2018/11/13 02:17:01	
Keyword	ARSystemUserDefaultCustomCheck	☒	Submit,Modify;	0	2018/11/13 02:17:01	
Video Exposed	ARSystemUserDefaultCustomCheck	☒	Submit,Modify;	0	2018/11/13 02:17:00	
Video Called	ARSystemUserDefaultCustomCheck	☒	Return,Display,SetDefault,WindowsLoaded;	0	2018/11/13 02:17:01	
Doc	ARSystemUserDefaultCustomCheck	☒	Return,Display,SetDefault,WindowsLoaded;	0	2018/11/13 02:17:01	
Pool	ARSystemUserDefaultCustomCheck	☒	Return,Display,SetDefault,WindowsLoaded;	0	2018/11/13 02:17:01	
Strings	ARSystemUserDefaultCustomCheck	☒	Return,Display,SetDefault,WindowsLoaded;	0	2018/11/13 02:17:01	
SelfPush / strings	ARSystemUserDefaultCustomCheck	☒	Return,Display,SetDefault,WindowsLoaded;	0	2018/11/13 02:17:01	
Qual / strings	ARSystemUserDefaultCustomCheck	☒	Return,Display,SetDefault,WindowsLoaded;	0	2018/11/13 02:17:01	
Qual / Selection	ARSystemUserDefaultCustomCheck	☒	Return,Display,SetDefault,WindowsLoaded;	0	2018/11/13 02:17:01	
Set	ARSystemUserDefaultCustomCheck	☒	Return,Display,SetDefault,WindowsLoaded;	0	2018/11/13 02:17:01	
Run process						
Screen						
External						
Actlink						
Filter						
Execution						
Act Guide						
File Guide						
Plugin						
Enter						
Action						
Exit						
Statistics						
Not Found						
Not Equal						

The result is enhanced with the following information:

- Active Link-> shows the name of the found object
- Enable -> shows if the object is active
- Execute On -> shows when the object is carried out
- Order -> shows the order of execution
- Timestamp -> shows the last modification date of the object
- Overlay -> displays if the object is overlay

The column "Active Link" is an additional link to:

- Active link-> displays the details of the selected object

AR\$urf		
Relation	Active Link	ARSystemUserPrefInableCustom
	Enable	0
	Order	0
	Timestamp	2010/11/13 02:17:01
	Execute On	Render,Display;SetDefault;WindowLoaded;
	ExecuteOn Field	Display Time Style (Web)
	Button/Menu	0
	Overlay	
	Schemas	
	ARSystemUserPrefInableCustom	
	Qualification	
	Run of "Display Time Style (Web)" = "Custom"	
	IF ACTION :	
	Type	Action
	CHANGE	Field : Custom Date Format Field Access : Enabled
	CHANGE	Field : Custom Time Format Field Access : Enabled
	ELSE ACTION :	
	Type	Action
	CHANGE	Field : Custom Date Format Field Access : Disabled
	CHANGE	Field : Custom Time Format Field Access : Disabled
	Data Source : CURRENT TRANSACTION	
	Field Mapping	
	Field Name	Value
	Custom Date Format	MM/DD/YYYY

Capitolo 20: Filter

This feature allows you to analyze the filters present in the application

➤ To use the functionality

1. Click on the link "Filter" in the box "Relation"
2. Insert the name or part of it to be found. For example if you want to analyze filters whose names start with "arsystem", you must insert the following value in the field:

Filter Name = arsystem

On the contrary, inserting the wildcard '%', all the object are searched

3. Press Enter

ARSurf

Relation

Filter Name

ar system

Search for 'ar system' - RecordCount: 88

Filter	Enable	Execute On	Order	Timestamp	Handler	Order
AR System Email Association Delete Attachments	[?] [x]	Delete	150	2010-11-13 02:41:08		
AR System Email Association Generator on Merge	[?] [x]	Merge	180	2010-11-13 02:41:13		
AR System Email Association Generator on Merge2	[?] [x]	Merge	181	2010-11-13 02:41:13		
AR System Email Association Generator on Merge3	[?] [x]	Merge	182	2010-11-13 02:41:13		
AR System Email Association Mark Email Entry Attachments (over)	[?] [x]	Submit/Modify/Merge	180	2004-07-04 09:54:26		
AR System Email Association Update Attachment Reference	[?] [x]	Submit/Modify/Merge	1800	2010-11-13 02:41:08		
AR System Email Attachments Update Reference	[?] [x]	Submit/Modify/Merge	1800	2010-11-13 02:41:09		
AR System Email GUID Generator	[?] [x]	Submit/Modify	180	2010-11-13 02:41:21		
AR System Email Attachment Delete Parameters	[?] [x]	Delete	180	2010-11-13 02:41:10		
AR System Email Mailbox Configuration Check Default Workflow Form	[?] [x]	Submit/Modify/Merge	180	2010-11-13 02:41:13		
AR System Email Mailbox Configuration Check For Default Mailbox	[?] [x]	Submit/Modify/Merge	180	2010-11-13 02:41:14		
AR System Email Mailbox Configuration Check Incoming Form User Name	[?] [x]	Submit/Modify	0	2010-11-13 02:41:14		
AR System Email Mailbox Configuration Check Outgoing Server User Name	[?] [x]	Submit/Modify	0	2010-11-13 02:41:14		
AR System Email Mailbox Configuration Check Page Mailbox	[?] [x]	Submit/Modify	0	2010-11-13 02:41:14		
AR System Email Mailbox Configuration Check Associated	[?] [x]	Delete	180	2010-11-13 02:41:14		
AR System Email Mailbox Configuration Delete Default Mailbox	[?] [x]	Delete	180	2010-11-13 02:41:14		
AR System Email Mailbox Configuration Enforce Associated Mailbox	[?] [x]	Submit/Modify	180	2010-11-13 02:41:14		
AR System Email Mailbox Configuration Enforce Single Default Mailbox	[?] [x]	Submit/Modify/Merge	185	2010-11-13 02:41:14		
AR System Email Mailbox Configuration Set Default Mailbox	[?] [x]	Submit/Modify/Merge	181	2010-11-13 02:41:14		

The result is enhanced with the following information:

- Filter-> shows the name of the found object
- Enable -> shows if the object is active
- Execute On -> shows when the object is carried out
- Order -> shows the order of execution

- Timestamp -> shows the last modification date of the object
- Handler -> shows if there is any defined error handler
- Overlay -> displays if the object is overlay

The column "Filter" is an additional link to:

- Filter-> shows the details of the selected object

AR\$urf									
Relation	Filter AR System Email Association Generator on Merge								
Enable	(2)								
Timestamp	2010/11/13 02:41:13								
Order	500								
Execute On	Merge								
Error Handler									
Overlay									
Schema									
AR System Email Mappings Configuration									
Qualification									
Run#: 'Unique Identifier' = NULL OR 'Unique Identifier' = 'NO ID GENERATED'									
IF ACTION:									
Type	Action								
SETFIELD	DataSource: CURRENT TRANSACTION <table border="1"> <thead> <tr> <th colspan="2">Field Mapping</th></tr> <tr> <th>Field Name</th><th>Value</th></tr> </thead> <tbody> <tr> <td>Unique Identifier</td><td>Application-Generate GUID</td></tr> <tr> <td></td><td>Link</td></tr> </tbody> </table>	Field Mapping		Field Name	Value	Unique Identifier	Application-Generate GUID		Link
Field Mapping									
Field Name	Value								
Unique Identifier	Application-Generate GUID								
	Link								
ELSE ACTION:									
Diff									
Statistics									
Not Found									
Not Equal									

Capitolo 21: Escalation

This feature allows you to analyze the escalations present in the application.

➤ To use the functionality

1. Click sul link "Escalation" in the box "Relation"
2. Insert the name or part of it to be found. For example, if you want to analyze the escalations whose names start with "user:disable" and defined on the user form, you must insert the following value in the two fields:

Escalation Name = user:disable

On the contrary inserting the wildcard '%', all the objects are searched

3. Press Enter

The screenshot shows the ARSurf application interface. On the left is a sidebar with a 'Relation' section containing a list of object types: [Armed](#), [Form](#), [Menu](#), [Function](#), [Keyword](#), [WebExposed](#), [WebCalled](#), [Doc](#), [Pool](#), [Strings](#), [SelfPush / strings](#), [Qual / strings](#), [Qual / Selection](#), [Sql](#), [Run process](#), [Server](#), [External](#), [Active](#), [File](#), [Escalation](#), [Act Guide](#), [Filt Guide](#), [Plugin](#), [Enter](#), [Action](#), and [Diff](#). Below these are [Statistics](#), [Not Exist](#), and [Not Equal](#). The main area is titled 'Escalation' and contains a search bar with 'user:dis' entered. Below the search bar, it says 'Search for 'user:dis' - RecordCount : 1'. A table displays the results with columns: Escalation, Enable, EscType, Timestamp, Form, and Qualifier. One result is shown: 'UserDisableCheckContent' with 'Enable' set to a checkbox, 'EscType' as 'Time', 'Timestamp' as '2011-01-27 19:00:49', 'Form' as 'User', and 'Qualifier' as an empty field.

Escalation	Enable	EscType	Timestamp	Form	Qualifier
UserDisableCheckContent	☐	Time	2011-01-27 19:00:49	User	

The result is enhanced with the following information:

- Escalation-> shows the name of the found object

- Enable -> shows if the object is active
- ExecType -> shows when the object is carried out
- Timestamp->shows the last modification date of the object
- Form -> name of the form that is referenced by the escalation
- Overlay -> displays if the object is overlay

The column Escalation is an additional link to:

- Escalation-> shows the details of the selected object

ARSurf	
Relation	Escalation UserDisableUserAccount
Enable	☐
Timestamp	2011-07-27 19:00:49
ExecType	Time
Interval	
Day	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
Time	00:30
Weekday	
Overlay	
Tickets	
User	
Qualification	
Run if: 'Applied Password enforcement enabled' != 'NULL' AND 'Force Password Change On Login' = 'Yes' AND 'Applied Days After Suspension Until Disabling' != 'NULL' AND 'Account Disabled Date' != 'NULL' AND 'STATUS' != 'Account Disabled Date'	
IF ACTION :	
Type	Action
SETFIELD	DataSource: CURRENT TRANSACTION Field Mapping Field Name / Value Status Disabled
ELSE ACTION :	

Capitolo 22: Active Link Guide

This feature allows you to analyze the active link guides present in the application.

➤ To use the functionality

1. Click on the link "Actl Guide" in the box "Relation"
2. Insert the name or part of it to be found
3. Press Enter

ARSurf

Active Link Guide

Relation

Arxdat

Form

Menu

Function

Keyword

Webp Exposed

Webp Called

Dns

Pool

Strings

SetPush / strings

Guid / strings

Guid / Selection

Sql

Run process

Server

External

Actlink

Filter

Escalation

Actl Guide

Fir Guide

Plugin

Envir

Action

Diff

Statistics

Not Equal

Not Equal

Guide Name

ar system

Search for 'ar system' - RecordCount: 40

Guide	Used	Timestamp	Overlay
AR System Administration: AI Guide To Build Allowable Certificates On Load	12	2010-11-11 02:19:02	
AR System Administration: AI Guide To Build Allowable Certificates On Sec	12	2010-11-11 02:19:02	
AR System Administration: AI Guide To Build DSO Server Setting On Sec	12	2010-11-11 02:19:02	
AR System Administration: AI Guide To Build DSO Server Setting Pool On Sec	12	2010-11-11 02:19:02	
AR System Administration: AI Guide To Build EA Group Mapping On Load	12	2010-11-11 02:19:02	
AR System Administration: AI Guide To Build EA Group Mapping On Sec	12	2010-11-11 02:19:02	
AR System Administration: AI Guide To Build Functional Certificates On Load	12	2010-11-11 02:19:02	
AR System Administration: AI Guide To Build Functional Certificates On Sec	12	2010-11-11 02:19:02	
AR System Administration: AI Guide To Build Plugin Pool On Sec	12	2010-11-11 02:19:02	
AR System Administration: AI Guide To Build Remote Workflows On Sec	12	2010-11-11 02:19:02	
AR System Administration: AI Guide To Build Server Ports On Sec	12	2010-11-11 02:19:02	
AR System Administration: AI Guide To Parse Allowable Certificates	12	2010-11-11 02:19:02	
AR System Administration: AI Guide To Parse DSO Server Setting	12	2010-11-11 02:19:02	
AR System Administration: AI Guide To Parse DSO Server Setting Pool	12	2010-11-11 02:19:02	
AR System Administration: AI Guide To Parse EA Group Mapping	12	2010-11-11 02:19:02	
AR System Administration: AI Guide To Parse Functional Certificates	12	2010-11-11 02:19:02	
AR System Administration: AI Guide To Parse Plugin Pool	12	2010-11-11 02:19:02	
AR System Administration: AI Guide To Parse Remote Workflows	12	2010-11-11 02:19:02	
AR System Administration: AI Guide To Parse Server Ports	12	2010-11-11 02:19:02	

The result is enhanced with the following information:

- Guide-> shows the name of the found object
- Used -> shows if the guide is used
- Timestamp -> shows the last modification date of the object
- Overlay -> displays if the object is overlay

The column "Guide" is an additional link which shows details of the guide:

ARSurf

Relation	Guide	AR System Administration: AL Guide To Build Allowable Currencies On Load		
	Used	☒		
	Recursive	☐		
	Timestamp	2010-11-15 02:19:02		
	Overlay			
	Definition :			
	Order	Label	ActiveLink	Enable
	0	AR System Administration: Allowable Currencies - Build Str		☒
	Called From :			
		ActiveLink	Enable	
	AR System Administration: Allowable Currencies - On Remove Allowable Currency		☒	
	AR System Administration: Allowable Currencies - On Add Allowable Currency		☒	
	Form:			
		Form		
	AR System Administration: Server Information			
	Permission:			
	GroupID	Group Name	Hidden	Permissions
	0	Public	Hidden	

Statistics

Not Exist

Not Equal

The result is enhanced with the following information:

- Definition-> shows the objects present in the guide
- Called From -> shows the object that recalls the guide
- Form -> shows the form in which the object is defined
- Permission-> shows the permissions associated with the guide

The columns ActiveLink and Form are additional links to:

- ✓ Form -> shows the details of the form (see the chapter on the Form)
- ✓ ActiveLink-> shows the details of the selected object (see the chapter on the Actlink)

Capitolo 23: Filter Guide

The feature allows you to analyze the filter guides present in the application.

➤ To use the functionality

1. Click on the link "Filter Guide" in the box "Relation"
2. Insert the name or part of it to be found
3. Press Enter

ARSurf				
Relation	Guide Name			
	ar system			
	Search for 'ar system' - RecordCount : 4			
	Guide	Used	Timestamp	Overlay
	AR System Administration Service Information Service Attachment	☒	2010-11-13 02:18:04	
	AR System Email Mailbox Configuration Test/Config MAPI Mail Box	☒	2010-11-13 02:41:11	
	AR System Web Services Registry - FG - Create	☒	2010-11-13 02:58:03	
	AR System Web Services Registry - FG - Modify	☒	2010-11-13 02:58:03	

The result is enhanced with the following information:

- Guide-> shows the name of the found object
- Used -> shows if the guide is used
- Timestamp -> shows the last modification date of the object
- Overlay -> displays if the object is overlay

The column "Guide" is an additional link that shows the details of the guide:

The screenshot displays the ARSurf application interface. On the left is a vertical navigation menu with various options like 'Relation', 'Andel', 'Form', 'Menu', 'Function', 'Keyword', 'Web Form', 'Web Call', 'Doc', 'Pool', 'String', 'SetPush / string', 'Qual / string', 'Qual / Selection', 'Set', 'Run process', 'Server', 'External', 'Active', 'Filter', 'Escalation', 'Act Guide', 'Filt Guide', 'Plugin', 'Error', 'Action', 'Diff', 'Statistics', 'Not Found', and 'Not Equal'. The main area shows details for a guide titled 'AR System Administration:Server Information:Save Attachment'. It includes fields for 'Used' (checked), 'Recursive' (unchecked), 'Timestamp' (2010/11/13 02:19:04), and 'Overlay'. Below these are three sections: 'Definition', 'Called From', and 'Form'. The 'Definition' section is a table with columns 'Order', 'Label', 'Filter', and 'Enable'. It contains three rows: '0 Start', '1 AR System Administration:Server Information:Save Attachment Page', and '2 AR System Administration:Server Information:Save Attachment Page2'. The 'Called From' section shows a single entry 'AR System Administration:Server Information:Save Attachment Call Guide'. The 'Form' section shows a single entry 'AR System Administration:Server Information:Save Attachment'.

Order	Label	Filter	Enable
0	Start		☐
1	AR System Administration:Server Information:Save Attachment Page		☒
2	AR System Administration:Server Information:Save Attachment Page2		☒

The result is enhanced with the following information:

- Definition-> shows the objects present in the guide
- Called From -> shows the object that recalls the guide
- Form -> shows the form on which the object is defined

The Columns "Filter" and "Form" are additional links to:

- ✓ Form -> shows the details of the form (see the chapter on the Form)
- ✓ Filter-> shows the details of the selected object (see the chapter on the Filter)

Capitolo 24: Plugin

The feature allows you to analyze the plugins present in the application.

➤ To use the functionality

1. Click on the link "Plugin" in the box "Relation"



The result is enhanced with the following information:

- Plugin-> shows the plugins present in the system

The column "Plugin" is an additional link that shows its details (as the following image describes):

ARSurf			
Relation	Plugin ARSYS ARF REGISTRY		
Armed			
Form			
Menu			
Function			
Request			
Value Exposed			
Value Called			
Isa			
Pool			
Strings			
SetPush / strings			
Qual / strings			
Qual / Selection			
Id			
Run process			
Serial			
External			
Actlink			
Filter			
Escalation			
Acti Guide			
Fit Guide			
Plugin			
Env			
Action			
Diff			
Statistics			
Not Found			
Not Equal			

The result is enhanced with the following information:

- ObjType-> shows the type of object that uses the plugin
- Object -> shows the name of the object
- Enable -> shows if the object is active

The column "Object" is an additional link to:

- ✓ Object -> shows the details of the object (see the chapter on the Filter, the Actlink)

Capitolo 25: Error

This feature allows you to analyze all the fallacious objects present in the application.

➤ To use the functionality

1. Click on the link "Error" in the box "Relation"

ARSurt						
Relation		Errors				
Asdef Form Menu Function Keyword WebSite Exposed WebSite Called Data Pool Strings GetPush / strings Qual / strings Qual / Selection Sig Run process Sensor External Active Filter Escalation Acti Guide Filt Guide Physic Error Action Diff Statistics Not Exist Not Equal	ObjType ALL	Object ase	Error Type ALL			
ID	ObjType	Object	Error type	Timestamp	Details	
16	ACTIVELINK	ASE.AssignRules_GetKeywords	No Group Found	2010-11-13 02:33:00	Select	
17	ACTIVELINK	ASE.AssignRules_ChangeStatus_3	No Group Found	2010-11-13 02:33:01	Select	
18	ACTIVELINK	ASE.AssignRules_ChangeStatus_2	No Group Found	2010-11-13 02:33:01	Select	
19	ACTIVELINK	ASE.AssignRules_ChangeStatus_1	No Group Found	2010-11-13 02:33:02	Select	
20	ACTIVELINK	ASE.AssignRules_ChangeStatus_0	No Group Found	2010-11-13 02:33:02	Select	
21	ACTIVELINK	ASE.AssignAttributes_AddTimes	No Group Found	2010-11-13 02:33:59	Select	
22	ACTIVELINK	ASE.AssignAttributes_AddRightParam	No Group Found	2010-11-13 02:33:59	Select	
23	ACTIVELINK	ASE.AssignAttributes_AddParam	No Group Found	2010-11-13 02:33:59	Select	
24	ACTIVELINK	ASE.AssignAttributes_AddPercent	No Group Found	2010-11-13 02:33:59	Select	
25	ACTIVELINK	ASE.AssignAttributes_AddOr	No Group Found	2010-11-13 02:33:59	Select	
26	ACTIVELINK	ASE.AssignAttributes_AddNotEqual	No Group Found	2010-11-13 02:33:59	Select	
27	ACTIVELINK	ASE.AssignAttributes_AddNot	No Group Found	2010-11-13 02:33:59	Select	
28	ACTIVELINK	ASE.AssignAttributes_AddGenu	No Group Found	2010-11-13 02:33:59	Select	
29	ACTIVELINK	ASE.AssignAttributes_AddAnd	No Group Found	2010-11-13 02:33:59	Select	
30	ACTIVELINK	ASE.AssignAttributes_AddLessThanEqual	No Group Found	2010-11-13 02:33:59	Select	
31	ACTIVELINK	ASE.AssignAttributes_AddLessThan	No Group Found	2010-11-13 02:33:59	Select	
32	ACTIVELINK	ASE.AssignAttributes_AddGreaterThan	No Group Found	2010-11-13 02:33:59	Select	
33	ACTIVELINK	ASE.AssignAttributes_AddGreaterThanEq	No Group Found	2010-11-13 02:33:59	Select	
34	ACTIVELINK	ASE.AssignAttributes_AddKerameThan	No Group Found	2010-11-13 02:33:59	Select	
35	ACTIVELINK	ASE.AssignAttributes_AddEqual	No Group Found	2010-11-13 02:33:59	Select	
36	ACTIVELINK	ASE.AssignAttributes_AddDoubleGenu	No Group Found	2010-11-13 02:33:59	Select	
37	ACTIVELINK	ASE.AssignAttributes_AddDouble	No Group Found	2010-11-13 02:33:59	Select	

The result is enhanced with the following information:

- ID -> shows the ID of the object
- ObjType -> shows the type of the object in which the fallacy is present
- Object -> name of the object
- Error type -> shows the type of the fallacy present in the object
- Timestamp -> shows the last modification date of the object
- Details -> shows the error's reason

The result can be also filtered using these three fields: "Objtype", "ObjName" and "ErrorType". The column "Object" is an additional link to:

- ✓ Object -> shows the details of the object (see the chapters on the Filter, the Actlink, the Escalation)

Capitolo 26: Action

This feature allows you to search for the objects that use a subset action present in the system, in particular: DDE, LogToFile, Message, Notify, Ole, OpenWindow, Runtime Value, Service, RunMacro, Report and PushField. Selecting one of these actions, the tool searches for all the objects that use it in the application. For example if you select "Report", the tool will search for all the reports defined in the "Report" form and will show possible objects that use it.

➤ To use the functionality

1. Click on the link "Action" in the box "Relation"
2. Select the type of action that you want to analyze



In the picture above the action "Service" has been selected. The tool searches for all the objects in which the action "Service" is present and shows them.

The result is enhanced with the following information:

- ObjType -> shows the type of the object that uses the selected action

- Object -> name of the object
- Enable -> shows if the object is active

The column "Object" is an additional link to:

- ✓ Object -> shows the details of the object (see the chapters on the Filter, the Actlink, the Escalation)

Capitolo 27: Statistic

This features allows you to compare data present in two different servers. It also shows the number of objects present in the two different analyzed servers.

➤ To use the functionality

1. Click on the link "Statistic" in the box "Diff"

ARSurf						
Relation	Server Src	Server A				
	Port Src	0				
	Server Dst	Server B				
	Port Dst	0				
	Start Time	2013-06-11 09:30:58				
	End Time	2013-06-11 09:39:38				
	Elaboration Time	420				
Web Exposed	URLs	Count Src	Count Dst	Count Equal	Count not Exist	Count Not Equal
Web Called	FORM	2011	1841	1738	184	90
Doc	FIELDS	72727	72343	70388	3978	358
Pool	ACTIVELINK	17481	17281	16028	1400	845
Strings	FILTER	8024	8017	7801	851	814
SetPath / strings	ESCALATION	137	138	34	23	111
Qual / strings	MENU	470	1270	416	258	23
Qual / Selection	POOL	79	79	74	18	9
Set	ACTIVELINK GUIDE	514	581	436	27	58
Run process	FILTER GUIDE	121	113	108	18	4
Server	D80	145	135	122	18	13
External	WEBSERVICE	83	38	33	27	4
Active	GROUPS	756	788	735	44	14
Filter						
Escalation						
Acti Guide						
Fin Guide						
Plugins						
Enter						
Action						
Diff						
Statistics						
Not Exist						
Not Equal						

The result is enhanced with the following information:

- Time -> time spent to compare the two servers
- Server Src -> name of the first compared server
- Port Src-> port of the first compared server
- Server Dst -> name of the second compared server
- Port Dst -> port of the second compared server
- Start Time -> date of beginning of the comparison process
- End Time -> date of end of the comparison process

- Elaboration Time -> time spent to compare the two servers
- ObjType -> shows the type of compared object
- Count src -> number of objects present in the first server
- Count dst -> number of objects present in the second server
- Count Equal -> number of equal objects between the two servers
- Count not exist -> number of objects present in one server but not in the other and vice versa
- Count not equal -> number of not congruous objects. For example for the same field the size of the first server is 10 and the size of the second is 9.

Capitolo 28: Not existst

This feature allows you to compare data present in two different servers. The feature shows objects present in a server A but not in a server B and vice versa.

➤ To use the functionality

Click on the link "Statistic" in the box "Not exist"

ARSurf		
Relation	Server Src	Server A
	Port Src	0
	Server Dst	Server B
	Port Dst	0
	Start Time	2013-06-11 09:30:58
	End Time	2013-06-11 09:39:38
	Elaboration Time	520
	Not Exist	
Arred Form Menu Function Keywords Video Exposed Video Called Doc Pool Storage SetPoint / string Qual / string Qual / Selection Sol Run process Server External Active Filter Escalation Acti Guide Fit Guide Plugin Ergo Action Diff Statistics Not Exist Not Equal	Schema ActiveLink Filter Escalation Schema Pool TitleGuide ActiveLinkGuide WebService Group DBO Field	

The result is enhanced with the following information:

- Server Src -> name of the first considered server
- Port Src-> port of the first compared server
- Server Dst -> name of the second considered server
- Port Dst -> port of the second compared server
- Start Time -> date of beginning of the comparison process
- End Time -> date of end of the comparison process
- Elaboration Time -> time spent to compare the two servers

In the picture below "Not Exist" there are some links which send back to:

- For Example, see the following picture about the link "Schema" :

[illegible]

The result is enhanced with the following information:

- Count -> shows the number of the forms present in one server but not in the other
- ObjName-> shows the name of the form

- TimeSrc -> if exploited it shows that the form is present in the Scr server but not in the Dst server
- TimeDst -> if exploited it shows that the form is present in the Dst server but not in the Scr server

Capitolo 29: Not Equal

This feature allows you to compare the data present in two different servers. It shows the list of the different objects and why they are different.

➤ To use the functionality

Click on the link "Statistic" in the box "Not Equal"

ARSurf		
Relation	Server Src	tondev.ktra.net.fw
	Port Src	0
	Server Dst	tondev.ktra.net.fw
	Port Dst	0
	Start Time	2013-06-11 09:30:58
	End Time	2013-06-11 09:39:38
	Elaboration Time	420
	Not Equal	
Andel Earm Menu Function Keyword WebExposed WebCalled Doc Pool Strings SetPush / strings Qual / strings Qual / Selection Set Run process Server External Active Filter Escalation Acti Guide Fit Guide Plugin Error Action Diff Statistics Not Equal Not Equal	Schema ActiveLink Filter Escalation Menu Pool FilterGuide ActiveLinkGuide WebService Group DSD Field	

The result is enhanced with the following information:

- Server Src –name of the first analyzed server
- Port Src-> port of the first compared server
- Server Dst -> name of the second analyzed server
- Port Dst -> port of the second compared server
- Start Time -> date of beginning of the comparison process
- End Time -> date of end of the comparison process
- Elaboration Time -> time spent to compare the two servers

In the picture below in the label "Not Equal" there are some links which send back to:

- Schema->shows the name of the different forms between the two servers

- ActiveLink -> shows the name of the different ActiveLinks between the two servers
- Filter -> shows the name of the different filters between the two servers
- Escalation -> shows the name of the different escalations between the two servers
- Menu -> shows the name of the different menus between the two servers
- Pool-> shows the name of the different pools between the two servers
- FilterGuide-> shows the name of the different filterguides between the two servers
- ActiveLinkGuide-> shows the name of the different activelinkguides between the two servers
- Webservice-> shows the name of the different web services between the two servers
- Group-> shows the name of the different groups between the two servers
- DSO-> shows the name of the different DSO between the two servers
- Field-> shows the name of the different fields between the two servers

For example, see the following picture about the link "Schema":

ARSurf

Relation	Server Src	tccdev.intranet.fw				
	Port Src	0				
	Server Dst	tccint2.intranet.fw				
	Port Dst	0				
	Start Time	2012-08-14 08:50:20				
	End Time	2012-08-14 08:57:34				
	Elaboration Time	434				
Aradef Form Menu Function Keyword Webt.Exposed Webt.Called Doc Pool Stringhs SetPush / stringhs Qual / stringhs Qual / Selection Sql Run process Server External ActiveLink Filter Escalation Acti Guide Filter Guide Plugin Entr Action	Schema	Count	ObjName	Time Src	Time Dst	Diff
	ActiveLink	0	Form1	2008-09-11 12:17:58	2008-09-07 21:41:16	RESLIST
	Filter	1	Form2	2011-02-01 16:12:18	2011-04-17 11:42:38	INDEX
	Menu	2	Form3	2007-06-20 17:08:49	2007-06-20 18:49:12	INDEX;RESLIST
	Pool	3	Form4	2006-07-13 09:49:55	2010-03-29 20:11:17	INDEX
	FilterGuide	4				
	ActiveLinkGuide	5				
	Webservice	6				
	Group	7				
	DSO	8				
	Field	9				
		10				

The result is enhanced with the following information:

- Count -> shows the number of forms present in one server but not in the other
- ObjName-> shows the name of the form
- TimeSrc -> shows the last modification date of the object
- TimeDst -> shows the last modification date of the object
- Diff -> shows the reason why the two servers are different