

# **GENESYS**

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# Privacy Manager Plug-in for GAX

Routing Strategies for Sensitive Data

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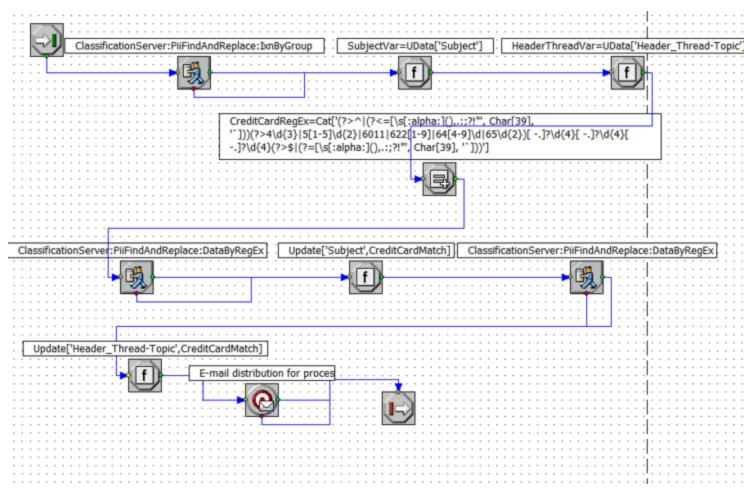
# Routing Strategies for Sensitive Data

For channels other than Chat, you must use Composer or Interaction Routing Designer (see the Universal Routing documentation) to create strategies (or modify existing ones) that include an External Service object that calls one of the following methods:

- IxnByGroup—This method specifies an interaction in the UCS database and the group of rules to apply to it. Its parameters are listed below.
- DataByRegex—This method extracts the text to be screened from the interaction as it passes through
  the strategy and the regular expression to apply to the text. Use it when you do not want to (or cannot)
  retrieve the interaction from the UCS database. In addition to the External Service object, strategies
  using this method must include some strategy object that extracts content from the user data and puts
  it in a variable which it passes to the External Service object. The parameters of this method are listed
  below.

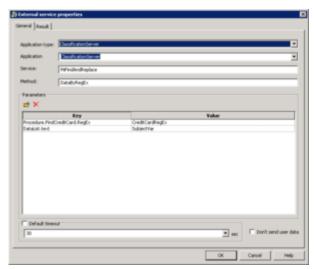
## Sample Strategy

The following strategy illustrates the use of both methods on an email interaction:

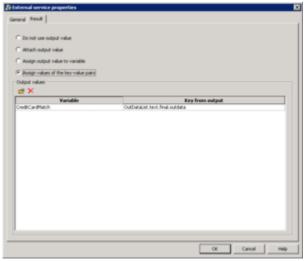


Strategy Using IxnByGroup and DataByRegEx

- 1. In the first **External Service** object, IxnByGroup looks at the interaction in the UCS database and scans its entire content: Subject, Header, Body. It also updates the content of the interaction as stored in UCS, replacing any sensitive data that it finds with strings of \* (asterisks). However, IxnByGroup does not affect the interaction's User Data, which contains attributes, such as Subject and various headers, that might also contain sensitive data. For that we must use DataByRegex.
- 2. Two Function objects retrieve the content of the Subject and Thread-Topic.
- 3. A Multi-Assign object creates a variable CreditCardRegEx and assigns it a value consisting of a regular expression that finds credit card numbers.
- 4. In the second External Service object, DataByRegex scans the content of the Subject field.



External Service, General Tab (click to enlarge)



External Service, Result Tab (click to enlarge)

- 5. The following Function object updates the interaction (in the Interaction Server database), substituting \* for the found data.
- 6. The third **External Service** object does the same for the Thread-Topic field.
- 7. When the interaction is terminated, the User Data attributes are also updated in the UCS database.

## IxnByGroup Parameters

Parameter	Туре	Description	Mandatory?	<b>Default Value</b>
Group	String	ID of the rule group to be applied. Either Group or	N	No default value

<b>Parameter</b>	Туре	Description	Mandatory?	<b>Default Value</b>
		GroupName may be specified, but not both.		
		If both are specified an Error is generated. If neither is specified, the predefined Email group is used.		
GroupName	String	Name of the rule group to be applied. Either Group or GroupName may be specified, but not both.  If both are specified an Error is generated. If neither is specified, the predefined Email group is used.	N	Email
IxnAccessSpec	List	Specifies which parts of interaction stored in UCS should be processed, and other parameters needed for Ixn. Ucs Access Provider. This string is passed to the Provider and is used by the Provider exclusively. The string has the following form: key:value= <part>: where  part can be Subject, Header, Text (body), StructuredText, Content (MIME content), or _EmailAll (all fields) operation can be check (the modified part of the interaction is not written back to UCS) or update (the modified part of the interaction is written back to UCS).</part>	N <operation>,</operation>	key:value=_AllEmai
mList	String	List of IDs of interactions stored in UCS, separated	N	No default value

Parameter	Туре	Description	Mandatory?	<b>Default Value</b>
		by the pipe character (   ). If absent, the Interaction ID is taken from user data.		
ProcedureOpt	String	Sets the output type of the procedure:  • final—only final processed data is placed in the result  • trace—full output with results of all intermediate procedure steps, including positions, is placed in the result.	N	final

# DataByRegex Parameters

Parameter	Туре	Description	Mandatory?	<b>Default Value</b>
DataList	List	Specifies the data portions to process: a list of key-value pairs, where the key is the reference ID of this data portion and the value is a string specifying the data portion to process.	Υ	No default value
Procedure	List of K-V pairs	Describes find and replace procedure by direct explicit specifications of its steps.  • Key (String)—Referent ID of this step of the	Y	No default value

Parameter	Туре	Description	Mandatory?	<b>Default Value</b>
		procedure  Value: (List of key-value pairs)—Specifica of this step of the procedure, as listed in "Values of <b>Procedure</b> " below.	tion	
ProcedureOpt	String	Sets the output type of the procedure:  • final—only final processed data is placed in the result  • trace—full output with results of all intermediate procedure steps, including positions, is placed in the result.	N	final

#### Values of **Procedure**

Key	Туре	Description	<b>Default Value</b>
TheOrder (optional)	Integer	Specifies the order of this part of the procedure. If <b>Procedure</b> contains only one step then TheOrder can be omitted. Otherwise TheOrder must be specified for each step of the procedure, and each step must have a different value.	No default value
RegEx (mandatory)	String	Regular expression used to process the data	No default value
ReplacementPattern (optional)	String or K-V list	Replacement pattern applied in data	See embedded table to left

Key	Туре	Description Default Value
		processing.
		Key Type Description
		Name of "namestring the string replacement pattern
		Type of replacement pattern:  • "standard"—POSIX type, with named and nurse replaced survives groups  • "genesys"—as specified in the "spec" attribute
		Specification of the replacement pattern if "type" = "genesys":  • "none"—Replace notherplace digits-0" • "replace- all"—Replace all characters in the found text  • "replace- digits-

Key	Туре	Description	Default Value
		Key Type Description	ult n e
		<n>"— only digits in the found text, leaving the <n> rightmo digits, where <n> is a non- negative integer.</n></n></n>	
		Specifies a character used to "repcharing replace all (aste characters in the found text	risk)

## Response

The response to the above methods is Event3rdServerResponse, which has the following parameters:

Key	Туре	Description	<b>Default Value</b>
OutDataList	List of lists	Key is the reference ID of the original data portion: the interaction ID or the reference ID of the data portion in the DataList parameter of the request.	No default value

Key	Туре	I	Descri	ption	Default Value
		The valu	ıe is as f	ollows	
		Key	Туре	Description Value	
		"final		string No consis <b>tlef</b> ault of value	
		ID of a step of the proce (the key in the reque Proc key- value list). These data eleme are create only when	etRire value pairs nts	String: the result "outdata" processing this step  List: positions of text found in position processing step; see description below.  List: positions of texts positions of text found in place of	

Key	Туре	Description Default Value	2
		Key Type Description	
		found text; see description	
		below.	

### Values of "posfound" and "poschanged"

Key	Туре	Value
"start"	String	Starting position. The first character in a string is numbered 0.
"end"	String	Ending position.