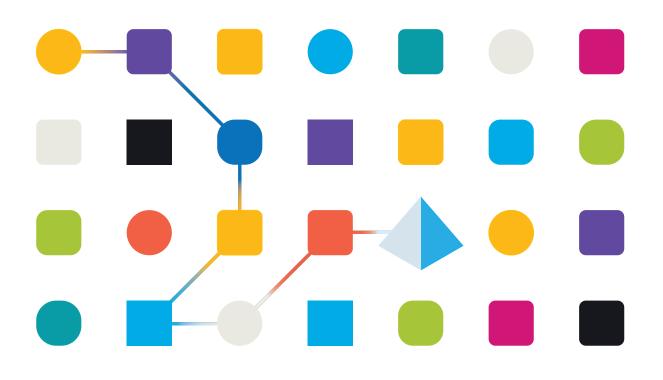
Blue Prism Cloud 2021 IADA.ai User Guide

Document Revision: 2.0



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IADA.ai

This document details how to utilize the Intelligent Automated Digital Assistant (IADA) Visual Business Object (VBO) – *IADA.ai.*

The IADA.ai VBO is available for use with Blue Prism Cloud and has the following Intelligent Automation Skills available:

- Language translation
- Sentiment analysis
- Language detection
- Text analysis
- Extraction of key phrases.

The IADA.ai VBO enables you to use the inbuilt actions to call the IADA.ai web services, which use Microsoft Cognitive Services, with the results being returned to your automation.



IADA.ai resides within a centralized Blue Prism Cloud Microsoft Azure subscription which is external to any client or partner platform subscription.

Prerequisites

IADA.ai needs to be installed and configured. To do this:

• If it is not already installed in Blue Prism, raise a request with Blue Prism Cloud Operations to install the VBO file.

The release file contains one VBO utility file, Utility – IADA.ai and two SOAP Web Services.

• Configure the web services.

Credentials need to be added for each of the services, see Enter the credentials below. Credentials can be obtained from the Blue Prism Cloud Support team and are associated with the subscription service that Blue Prism Cloud provides.

Enter the credentials

- 1. In the System > Objects SOAP Web Services screen in Blue Prism, select the service to be configured. The services are:
 - IADA.AI.TranslationService
 - IADA.AI.TextAnalysisService

You will need to configure each service individually.

2. Click Edit Service.

The Update a web service wizard displays. The example below shows the TranslationService selected for editing.

🚯 Blue Pri	sm - Robotic Proce	ss Automation Softv	vare - v6.	10.0					?	- 0	×
File	Home	Studio	Co	ontrol	Analytics	Releases	Digital Exchange		System	My Profile	
	S	ystem	0	bjects -	SOAP Web Servio	es					
	History Externa SOAP Web Al Excepti Enviror Skills Manag Choose	Web Services PF Services netclion Settings on Types mment Variables ement a web service a Web Service the Web Service Des	to inte	Enabled	Name IADA Al TranslationServi IADA Al TextAnalysisServi IADA Al NormalizationSe BluePrismCloud IADA	URL te https://iad ice https://iad	Tin nalweb azurevebites 100 aalweb azurevebites 100 RefVm-254675:8443/ 100	00 00	Add See A	<u>rvice</u> Service(s)	
		· · ·	~						.:		

3. Click **Next** and then enter your supplied credentials, for example:

Update a web se	ervice	?	×
Please supply	authentication details for the web service.		
☑ Web Service Requ	ires Username and password (HTTP Authentication)		
Username:	AzureLabsSandbox		
Password:	•••••		
Web Service Requ	ires client side certificate (SSL Authentication)		
Store Location:	V Store Name: V Find Type:		\sim
Find Criteria:			
Password:			
		Cancel	

- Credentials can be obtained from the Blue Prism Cloud Support team and are associated with the subscription service that Blue Prism Cloud provides.
- 4. Click Next.
- 5. Leave the timeout at the default value and click Next.

This will then start the service and check that the credentials are valid, for example:

Update a web service	?	×
Importing web service definitions.		
Retrieved wsdl from https://iadaaiweb.azurewebsites.net/translationservice.svc?singleWsdl Found service port 'BasichttpsBinding_ITranslationService' Found service port 'BasichttpsBinding_ITranslationService' Found message 'ITranslationService_GetMessageTranslation_InputMessage' Found part 'request' Found part 'request' Found part 'GetMessageTranslationService_GetMessageTranslation_OutputMessage' Found part 'GetMessageTranslationService_GetMessageTranslation_OutputMessage' Found part 'GetMessageTranslationService_details		
Gack Next Nex	Cance	1

- 6. Continue to click **Next** until you reach the final screen and then click **Finish**.
- 7. Repeat the credentials setting for the other service.

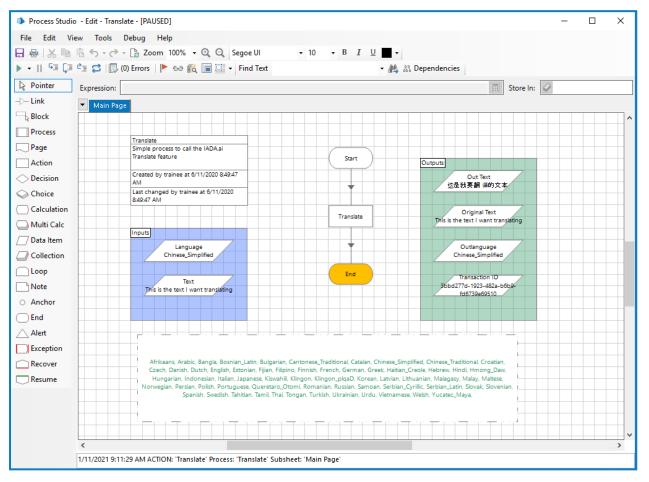
Using the IADA.ai VBO

The Skills within the IADA.ai VBO can be called using an Action stage in an automation process. The examples below show the results from operating some of the IADA.ai skills.

A The Normalization skill is no longer supported due to the withdrawal of Microsoft's web service for this function.

Translate

The image below shows a simple process calling the Translate skill from the business object Utility - IADA.AI, with the input and outputs shown. The note (in the image) below the process lists the available languages that can be used for translation.



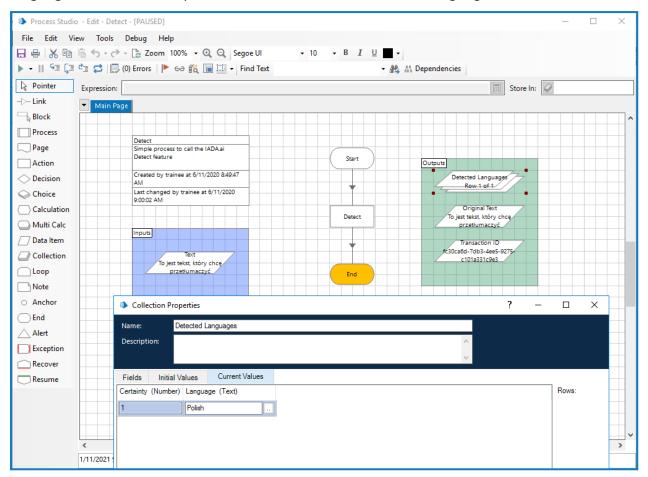
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In this example, the Translate action properties are set as follows:

Action Pro	perties				? – 🗆 🗙
	_			_	
Name:	Translate				
Description:					
Business Object	Utility - IADA.AI			~ ()	Group:
Action	Translate			~	🗌 Page 🔛 Data Type
	s Conditions				View All Items
	s Conditions	Data Type	Velue		
Name			Value		- Binaries - Collections
Text to Transla		Text	[Text]		Dates
Target Languag	je	Text	[Language]		DateTimes
					Flags
					Images Numbers
					Passwords
					Times
					TimeSpans
Stage logging:	Enabled	~	Don't log parameters on this stage		
Varning threshol	perties	Default ~ N	umber of minutes 5 🔹 (0 to disable)	OK Cancel
		Default 🗸 N	umber of minutes 5 🗘 (0 to disable)	
It Action Proj Name: Description:	perties Translate	Default 🗸 N	umber of minutes 5 🗘 (^ ~	? – 🗆 X
It Action Prop Name: Description: Business Object	Translate Utility · IADA.AI	Default v N	umber of minutes 5 🗘 (^ ~ 0	? — 🗆 X
Action Prop Name: Description: Business Object Action	Translate Utility - IADA AI Translate	Default ~ N	umber of minutes 5 🛟 (^ ~	? — □ × Group: □ Page ☑ Data Type
Action Prop Name: Description: Business Object Action Inputs Outputs	Translate Utility · IADA.AI			^ ~ 0	? − □ × Group: □ Page ☑ Data Type □ View All Items
It Action Prop Name: Description: Business Object Action Inputs Outputs Name	Utility - IADA AI Translate Utility - IADA AI Translate	Data Type	Store in	^ ~ 0	? − □ × Group: □ Page ☑ Data Type □ View All Items ■ Binaries
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Action Prop Name: Description: Business Object Action Inputs Outputs Name Transaction ID Original Text Target Language	perties Translate Utility · IADA.AI Translate Conditions ge	Data Type Text Text Text	Store In Transaction ID Original Text Outlanguage	~ ~ 0	? — □ × Group: Page ☑ Data Type View All Items Olates Dates Dates Dates Dates Dates Page Flags Images Numbers Passwords
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Action Prop Name: Description: Business Object Action Inputs Outputs Name Transaction ID Original Text Target Language	perties Translate Utility · IADA.AI Translate Conditions ge	Data Type Text Text Text	Store In Transaction ID Original Text Outlanguage	~ ~ 0	? — □ × Group: Page ☑ Data Type View All Items Binaries Collections Dates DateS DateTimes Flags Images Numbers Passwords Text Times
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Action Prop Name: Description: Business Object Action Inputs Outputs Name Transaction ID Original Text Target Language	perties Translate Utility · IADA.AI Translate Conditions ge	Data Type Text Text Text	Store In Transaction ID Original Text Outlanguage	~ ~ 0	? _ _ Group: _ Page Data Type _ View All Items _ _ Collections _ _ _ Date Type _ _ _ Binaries _ _ _ Collections _ _ _ DateTimes _ _ _ Flags _ _ _ Numbers _ _ _ Passwords _ _ _ Times _ _
Action Prop Name: Description: Business Object Action Inputs Outputs Name Transaction ID Original Text Target Language	perties Translate Utility · IADA.AI Translate Conditions ge	Data Type Text Text Text	Store In Transaction ID Original Text Outlanguage	~ ~ 0	? _ _ Group: _ Page Data Type _ View All Items _ _ Collections _ _ _ Date Type _ _ _ Data Type _ _ _ View All Items _ _ _ Date Times _ _ _ Date Times _ _ _ Numbers _ _ _ Text _ _ _ Times _ _
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Detect

The image below shows a simple process calling the Detect Languages skill from the business object Utility - IADA.AI, with the input and outputs shown. The collection properties show the detected languages and the certainty for the confidence that the detected language is correct.

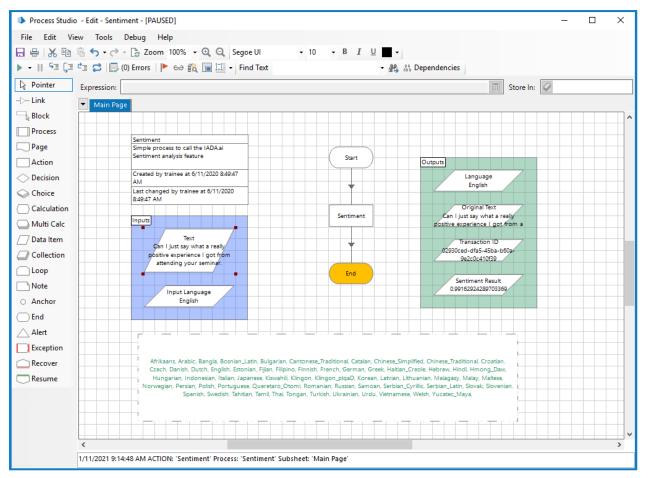


In this example, the Detect action properties are set as follows:

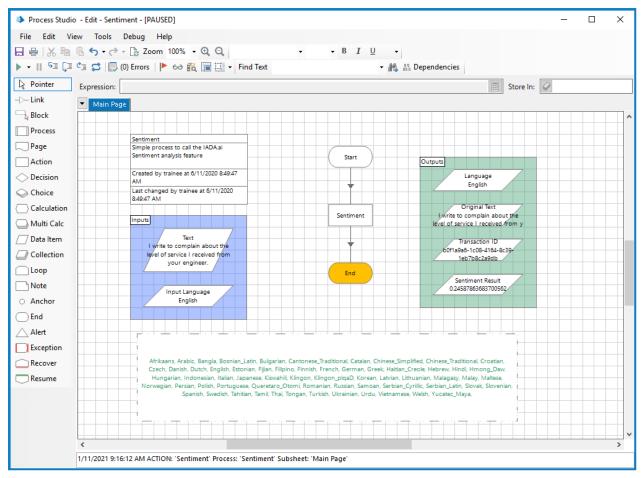
Action Pro	perties				? – 🗆 🗙
Name:	Detect				
Description:	Deleter			^	
				~	
Business Object	t Utility - IADA.AI				Group:
Action	Detect Language	•		~	🗌 Page 🛛 🗹 Data Type
	s Conditions				View All Items
Name		Data Type	Value		Binaries
Text to Detect	Language	Text	[Text]		Collections
					Dates
					DateTimes Flags
					Images
					- Numbers
					Times
					TimeSpans
Stage logging:	Enabled	I ~ [Don't log parameters on this stage		
Stage logging: Warning thresho	ld: System			(0 to disable)	OK Cancel
Warning thresho	ld: System			(0 to disable)	
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Warning threshold Action Pro Name: Description: Business Object	ld: System perties Detect t Utility - IADA.AI Detect Language	Default V N		^ 	? — 🗆 X
Warning threshold Action Pro Name: Description: Business Object Action	ld: System perties Detect t Utility - IADA.AI Detect Language	Default V N		^ 	? — □ × Group: □ Page ☑ Data Type □ View All Items Binaries
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Warning threshold Action Pro Name: Description: Business Object Action Inputs Output Name Transaction ID Original Text	Id: System perties Detect t Utilty - IADA.AI Detect Language S Conditions	Default V N Default V N Data Type Text Text	Store In Transaction ID Original Text	^ 	? — × Group: Page Data Type Page ✓ Data Type View All Items Binaries Collections Dates Dates Dates DateTimes Flags Images Numbers
Warning threshold Action Pro Name: Description: Business Object Action Inputs Output Transaction ID Original Text	Id: System perties Detect t Utilty - IADA.AI Detect Language S Conditions	Default V N Default V N Data Type Text Text	Store In Transaction ID Original Text	^ 	? — □ × Group: Page ☑ Data Type View All Items Binaries Collections DateS DateTimes Flags Images Numbers Passwords Text
Warning threshold Warning threshold Action Pro Name: Description: Business Object Action Inputs Output Name Transaction ID Original Text	Id: System perties Detect t Utilty - IADA.AI Detect Language S Conditions	Default V N Default V N Data Type Text Text	Store In Transaction ID Original Text	^ 	 ? – □ × Group: Page □ Data Type View All Items Binaries Collections Dates DateS DateTimes Flags Images Numbers Passwords Text Times
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Warning threshold Action Pro Name: Description: Business Object Action Inputs Output Name Transaction ID Original Text	Id: System perties Detect t Utilty - IADA.AI Detect Language S Conditions	Default V N Default V N Data Type Text Text	Store In Transaction ID Original Text	^ 	? — □ × Group: Page ☑ Data Type View All Items Binaries Collections Dates DateTimes Flags Images Numbers Passwords Text Times
Warning threshold Action Pro Name: Description: Business Object Action Inputs Output Name Transaction ID Original Text	Id: System perties Detect t Utilty - IADA.AI Detect Language S Conditions	Default V N Default V N Data Type Text Text	Store In Transaction ID Original Text	^ 	? — □ × Group: Page ☑ Data Type View All Items Binaries Collections Dates DateTimes Flags Images Numbers Passwords Text Times
Warning threshold Action Pro Name: Description: Business Object Action Inputs Output Name Transaction ID Original Text	Id: System perties Detect t Utilty - IADA.AI Detect Language S Conditions	Default V N Default V N Data Type Text Text	Store In Transaction ID Original Text	^ 	? — □ × Group: Page ☑ Data Type View All Items Binaries Collections Dates DateTimes Flags Images Numbers Passwords Text Times
Warning threshold Action Pro Name: Description: Business Object Action Inputs Output Name Transaction ID Original Text	Id: System perties Detect t Utilty - IADA.AI Detect Language S Conditions	Default V N	Store In Transaction ID Original Text	^ 	? — □ × Group: Page ☑ Data Type View All Items Binaries Collections Dates DateTimes Flags Images Numbers Passwords Text Times

Sentiment Analysis

The two images below illustrate a simple process using the Sentiment Analysis skill from the business object Utility - IADA.AI. The first image illustrates a 'positive' statement:



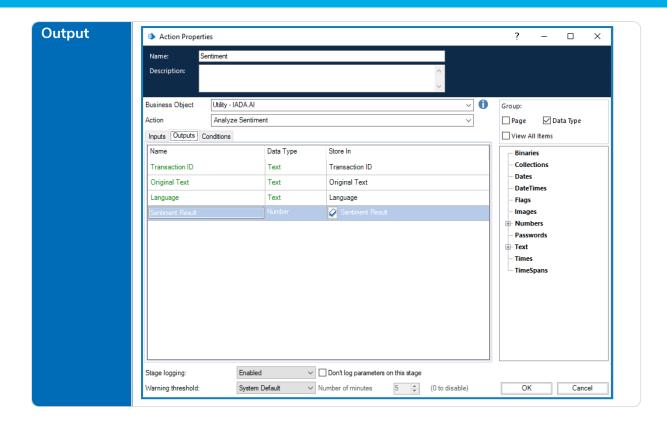
The next image illustrates a 'negative' comment:



The Sentiment Analysis results in a 'sentiment' is closer to '1' when 'positive' and closer to '0' if 'negative'. In this example, the Sentiment action properties are set as follows:

Action Properti	es			? – 🗆 ×
Name: Se	entiment			
Description:			~	
Business Object	Utility - IADA.AI		~ 🚺	Group:
Action	Analyze Sentiment		~	🗌 Page 🛛 🗹 Data Type
Inputs Outputs C	onditions			View All Items
Name	Data Type	Value		Binaries
Text to Analyze Se	ntiment Text	[Text]		Collections
Language of Text	Text	[Input Language]		Dates DateTimes
				 Flags Images Numbers Passwords Text Times TimeSpans
Stage logging:	Enabled	✓ □ Don't log parameters on this stage	e	L
Warning threshold:	System Default	✓ Number of minutes 5 ≑	(0 to disable)	OK Cancel

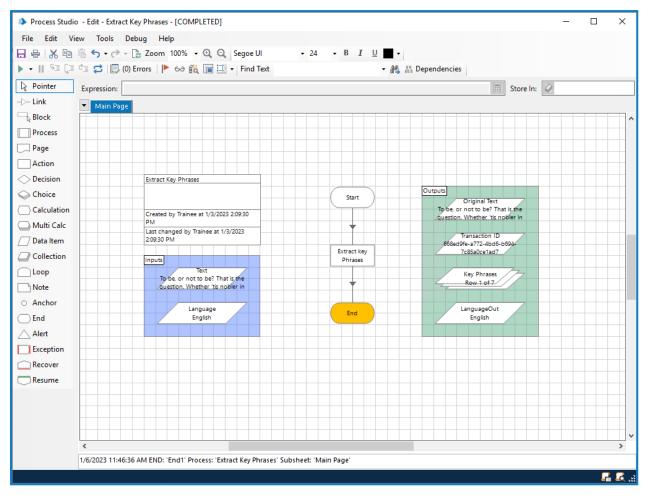
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Extract Key Phrases

The image below shows a simple process call the Extract Key Phrases skill from the business object Utility - IADA.AI.



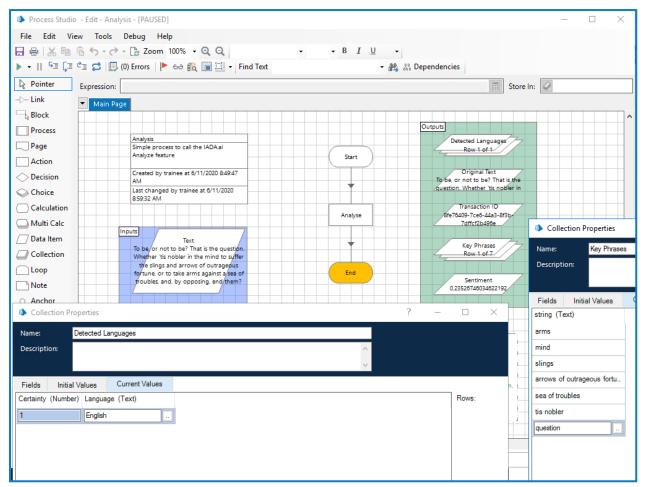
In this example, the Extract Key Phrases action properties are set as follows:

Action Properties Action Properties Action Properties Action Properties Action Properties Business Object Utilty - IADA AI O Business Object Utilty - IADA AI O Business Object Utilty - IADA AI O	Name: Description: Business Object Action				? – 🗆 >
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Action Extract Key Prrases Page Data Type Pould Conditions Uvew All items Binaries Name Data Type Value Data Type OdeCons Text to Extract From Text (Text) Text OdeCons Signaries Collections Data Type OdeCons Data Type Warning threshold: System Default Number of minutes S © (0 to disable) OK Cance Description: Images OdeCons Page Data Type Stree In Page Data Type Name: Extract Key Prrases Open Stree In Page Data Type Name: Data Type Stree In Transaction ID Original Text Otata Type Page Data Type Name: Data Type Store In Transaction ID Otata Times Page Data Type Page OddeCons Data Type Store In Page Data Type Page Name: Extract Key Prrases Conditions Pata Type Page Data Type Name: Data Type	Action Inputs Outputs			^	
Action Etract Key Phrases Page Data Type Pade Odputs Conditions Page Data Type Value Text to Extract From Text [Text] Date Treet Fags Number of minutes Stage logging: Errors only Dent log parameters on this stage Warning threshold: System Default Number of minutes Color Conservation Name: Extract Key Phrases Page Data Type Page Data Type Page Page Page Page Page Page Page Pag	Action Inputs Outputs			~	
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Name Data Type Value Text to Extract From Text [Text] Text to Extract From Text [Language] Data Data Data Data Data Data Passwords Times Passwords TimeSpans TimeSpans TimeSpans Stage logging: Extract Key Phrases OK Verning threshold: System Default Number of minutes S © (0 to disable) OK Cance Pass Data OK Cance Pass Default Number of minutes © (0 to disable) OK Cance Pass Detata Very Phrases OK Cance OK Cance Pass Detata Very Phrases Collections Pass Data Type Pass Original Text Transaction ID Original Text Pass Data Type Pass Collections Data <td></td> <td>Extract Key Phra</td> <td>ises</td> <td>~</td> <td>🗌 Page 🛛 🗹 Data Type</td>		Extract Key Phra	ises	~	🗌 Page 🛛 🗹 Data Type
Text to Extract From Text [Text] Impluinge of feed Text [Language] Impluinge of feed Text [Language] Dates Dates Dates Page Data Type Store In Name: Description: Collections Description: Images Images Name: Extract Key Phrases Images Description: Images Images Name: Data Type Store In Transaction ID Text Transaction ID Original Text Text Original Text Key Phrases Collections Dates		Conditions			View All Items
Text Local Image: Text Image: Date: Date: Date: Description: OK Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Description: OK Date: Date: Date: Date: Date: Date: Date: Date: Date: Original Text Name: Date: Date: Date: Date: Date:	Name		Data Type	Value	
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Stage logging: Errors only Warning threshold: System Default Number of minutes 5 0 to disable) OK Cance Action Properties ? Parce Description: Imputs Duty Imputs Data Type Store In Transaction ID Text Original Text Key Phrases Collection Key Phrases Collection Key Phrases					
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Warning threshold: System Default Number of minutes 5 (0 to disable) OK Cance Action Properties ? - -					
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Warning threshold: System Default Number of minutes 5 (0 to disable) OK Cance Action Properties ? - -					
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Name: Etract key Phrases Description: Image: Construction of the second sec	Warning threshold	J: System	Default V N	lumber of minutes 5 (0 to disable)	OK Cancel
Action Extract Key Phrases Page Data Type Inputs Outputs Conditions View All Items Name Data Type Store In Binaries Transaction ID Text Transaction ID Data Type Original Text Text Original Text Date Type Key Phrases Collection Key Phrases Flags		Extract key Phrases		^	
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Inputs Outputs Conditions Name Data Type Store In Transaction ID Text Transaction ID Original Text Text Original Text Key Phrases Collection Key Phrases					
Name Data Type Store In Transaction ID Text Transaction ID Original Text Text Original Text Key Phrases Collection Key Phrases			ises	~	
Transaction ID Text Transaction ID Original Text Text Original Text Key Phrases Collection		Conditions	Data Tur-	Stars In	
Transaction D Text Transaction D Original Text Text Original Text Key Phrases Collection Key Phrases	Name				
Key Phrases Collection Key Phrases - Flags	Trans. 10 107				
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Language Text A LanguageOut Images	Original Text		Text	NeyThidses	Flags
	Original Text		- OAC	LanguageOut	Images Numbers
- Passwords	Original Text Key Phrases			Z LanguageOut	Numbers
	Original Text Key Phrases			☑ LanguageOut	Numbers Passwords Text
 Passwords ⊕ Text Times 	Original Text Key Phrases			☑ LanguageOut	Numbers Passwords ⊕- Text Times
Passwords	Original Text Key Phrases			LanguageOut	Numbers Passwords ⊕- Text Times
Passwords ⊕- Text Times	Original Text Key Phrases			LanguageOut	Numbers Passwords ⊕- Text Times
Passwords ⊞- Text Times	Original Text Key Phrases			LanguageOut	Numbers Passwords ⊡- Text Times
Passwords ⊕- Text Times	Original Text Key Phrases			LanguageOut	Numbers Passwords ⊡- Text Times
- Passwords ⊮- Text Times	Original Text Key Phrases			LanguageOut	Numbers Passwords ⊡- Text Times
 Passwords ⊕-Text Times 	Original Text Key Phrases			LanguageOut	Numbers Passwords ⊡- Text Times
 Passwords ⊕-Text Times 	Original Text Key Phrases Language				Numbers Passwords ⊡- Text Times

Analyze Text

SS&C | blueprism

The image below shows a simple process calling the Analyze Text skill from the business object Utility - IADA.AI, which produces multiple outputs. Analyze Text combines several skills to produce its output.



In this example, the Analyze Text action properties are set as follows:

Name:				? – 🗆
	Analyse			
Description:			^	
			~	
Business Object			()	
Action	Analyze Text		~	🗌 Page 🗹 Data Type
Name	s Conditions	Data Type	Value	View All Items
Text to Analyze		Data Type Text	[Text]	Binaries Eollections
				Dates
				DateTimes
				Flags Images
				+ Numbers
				Passwords
				Times
				TimeSpans
Stage logging:	Enable	d v	Don't log parameters on this stage	
Warning threshol	ld: System	Default ~	Number of minutes 5 🔹 (0 to disable)	OK Canc
Action Prop Name:				? – 🗆
Action Prop Name: Description:	Analyse		^	? – 🗆
Name: Description:	Analyse		Ŷ	
Name: Description: Business Object	Analyse Utility - IADA.AI		^ ~ 0	Group:
Name: Description: Business Object Action	Analyse Utility - IADA AI Analyze Text		` ` ` `	Group: □ Page ☑ Data Type
Name: Description: Business Object Action Inputs Outputs	Analyse Utility - IADA AI Analyze Text		~	Group: ☐ Page ☑ Data Type ☐ View All Items
Name: Description: Business Object Action Inputs Outputs Name	Analyse Utility - IADA AI Analyze Text	Data Type	V Store In	Group: ☐ Page ☑ Data Type ☐ View All Items ☐ Binaries
Name: Description: Business Object Action Inputs Outputs Name Transaction ID	Analyse Utility - IADA AI Analyze Text	Text	Store In Transaction ID	Group: ☐ Page ☑ Data Type ☐ View All Items
Name: Description: Business Object Action Inputs Outputs Name Transaction ID Original Text	Analyse Utility - IADA.AI Analyze Text Conditions	Text Text	Store In Transaction ID Original Text	Group: Page Data Type View All Items Binaries Collections
Name: Description: Business Object Action Inputs Outputs Name Transaction ID Original Text Detected Langu	Analyse Utility - IADA.AI Analyze Text Conditions	Text Text Collection	Store In Transaction ID Original Text Detected Languages	Group: Page Data Type View All Items Binaries Collections Dates Dates - Dates - Dates - Flags
Name: Description: Business Object Action Inputs Outputs Name Transaction ID Original Text	Analyse Utility - IADA.AI Analyze Text Conditions	Text Text	Store In Transaction ID Original Text	Group: Page Data Type View All Items Binaries Collections Dates Dates DateTimes