WONDERBOTZ

A360

CUSTOM PACKAGES

Version 1.0

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Published by:
WonderBotz LLC
821 Alexander Road
Suite 206 Princeton
NJ 08540-6352
United States
Web: www.WonderBotz.com
Email: Info@WonderBotz.com

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Document Control

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Author	Information contact(s)	Date
Lead Technical Writer	Solution Architect	07-May-2023

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Co-CEO	05-June-2023

Document Conventions

Convention	Meaning
Bold	The subject under the action, Emphasis
Italics, small font	Reference information and captions
`Courier New font`	User input and scripts
Pantone cool grey color	Note and caution body
Pantone cool grey color bold	Note
Highlight	Information to be updated
Pantone red bold	Caution

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Contents

1 Introduction 5
1.1 Point of Contact 5
1.2 System Prerequisites 5
2 Custom Action Packages 6
2.1 WBZ Data Table Plus 6
2.2 WBZ File Plus 8
2.3 WBZ Workload Plus 9
2.4 WBZ IQ Bot Plus 12
2.5 WBZ PowerPack 13
A P P E N D I X : Source Code 16

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1 Introduction

Customized packages are developed in addition to the A360-provided packages to ease and increase the functionalities to run WonderBotz solutions on the A360 platform optimally. The developed packages include but are not limited to data table, file, queue, and document management.

1.1 Point of Contact

Contact the WonderBotz Account Manager or the WonderBotz support team if further assistance is required while following this document.

1.2 System Prerequisites

Prerequisite	Description
A360 installation	The A360 On-Prem or Cloud instance of version 26 is required to use these custom action packages.
MSSQL database	MSSQL database is required in case of On-Prem A360 Installation.

Table 1: System Prerequisites

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2 Custom Action Packages

The Custom Action Packages are implemented using Automation Anywhere's Software Development Kit (SDK). The following is the list of Action Packages developed; each package contains a unique set of actions.

- WBZ Data Table Plus
- WBZ File Plus
- WBZ Workload Plus
- WBZ IQ Bot Plus
- WBZ PowerPack

2.1 WBZ Data Table Plus

2.1.1 I: Filter Data Table

This action filters a data table for a selected column value. It currently supports string, DateTime, and Number conditions. One filter can be applied, but adding another filter within the same action is a work in progress.

Parameters/Inputs	Output
Table: The input data table on which the filter must be applied.	Output Data Table: Returns a new Filtered Data Table.
Column Identifier: The Name / Index of the column.	
Type of Condition: Condition type like string/date/number.	
Operator: Operators like Equals/Greater Than/Not Equals, etc.	
Value: The Value to check in the specified column.	

Table 2:I: Filter Data Table

2.1.2 I: Get Table Headers

This action gets the table headers as a list.

Parameters/Inputs	Output
Table: The input data table on which the filter must be applied.	Output Data Table: Returns a new Filtered Data Table.

Table 3: I: Get Table Headers

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2.1.3 I: Get Cell Value

This action gets a selected cell value from the data table using row/column indexes.

Parameters/Inputs	Output
Table: The input data table from which the cell value must be obtained.	Output String Value: The processed collection.
Row index: Row index in which the cell is available.	
Column Index: column index in which the cell is available.	

Table 4: I: Get Cell Value

2.1.4 I: Merge Records

This action merges two records into one (Adds columns in one record to another record variable).

Parameters/Inputs	Output
Record 1: The Input Record variable 1 merges with another record.	Output Record: Returns the merged record.
Record 2: The Input Record variable 2 merges with record variable 1.	

Table 5: I: Merge Records

2.1.5 I: Set Table Headers

This action sets the new headers to a data table from a row or a list.

Parameters/Inputs	Output
Table: The data table to which headers must be updated.	Output Data Table: Returns data table with new headers.
Header Source: Source of new headers like Row/List.	
Header Values: Row Index If the source is Row, List Variable if the source is selected as a list.	

Table 6: I: Set Table Headers

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2.1.6 I: Check Table cells

This action searches for whether each cell contains a selected value in a data table. The cell index returns in output if the cell contains the value.

Parameters/Inputs	Output
Table: The data table in which the cell contains string action should be performed.	Output List: Returns a list of any data type with each list item as [Row index, Column index].
String: The string to search in each cell of the data table.	

Table 7: I: Check Table cells

2.2 WBZ File Plus

2.2.1 I: Get File Size

This action gets the size of a local file in bytes.

Parameters/Inputs	Output
Full File Path: The full local path of the file.	Output File Size: Returns the file size in bytes as a Number.

Table 8: I: Get File Size

2.2.2 I: Move File

This action moves a local file from a source to a destination folder.

Parameters/Inputs	Output
Source file Path: The source file path which must be moved.	Returns Nothing.
Destination file Path: The destination path to which the file must be moved.	
Create path: A checkbox that says if the destination folder can be created if unavailable.	

Table 9: I: Move File

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2.3 WBZ Workload Plus

2.3.1 I: Add WorkItem

This action creates a new workitem in the queue within a task bot and returns the ID of the newly created workitem.

Parameters/Inputs	Output
Queue Name: Choose one of the available queues for adding a new item. WorkItem Details: Map all the workitem column details in the property pane to create the new workitem.	Output WorkItem Id: The workitem ID of the newly created workitem.

Table 10:I: Add WorkItem

2.3.2 I: Delete WorkItem

This action deletes a workitem from the queue within a task bot.

Parameters/Inputs	Output
Queue Name: Choose one of the available queues for an item to be deleted.	Output Number: Return 204 status code in case of successful execution.
WorkItem Id: The ID of the WorkItem to delete from the queue.	

Table 11:I: Delete WorkItem

2.3.3 I: Get WorkItems [Advanced]

This action gets all workitems from the queue within a task bot. It optionally exports the workitems to a CSV file.

Parameters/Inputs	Output
Queue Name: choose one of the available queues from which all items must be retrieved.	Output DataTable: Returns a DataTable with all the columns present in the workitem template of the queue.
Filter Condition [optional]: choose the filter condition if specific workitems only need to be fetched.	
Export to CSV Checkbox [optional]: select this checkbox and choose a CSV file to import all workitem data.	

Table 12:I: Get WorkItems [Advanced]

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2.3.4 I: Get WorkItems [Basic]

This action gets all workitems from the queue within a task bot. Still, it only returns the columns visible in the control room.

Parameters/Inputs	Output
Queue Name: choose one of the available queues from which work items must be retrieved.	Output DataTable: Returns a DataTable with all the control room visible columns of the queue.
Filter Condition [optional]: choose the filter condition if specific workitems only need to be fetched.	

Table 13: I: Get WorkItems [Basic]

2.3.5 I: Get WorkItem

This action gets any workitem from the queue within a task bot using ID.

Parameters/Inputs	Output
Queue Name: choose one of the available queues from which the work item must be retrieved.	Output Record: Returns a Record with all the columns of the selected workitem in the queue.
WorkItem Id: The ID of the WorkItem to retrieve from the queue.	

Table 14: I: Get WorkItem

2.3.6 I: Get QueueId

This action gets the ID of a selected queue.

Parameters/Inputs	Output
Queue Name: choose one of the available queues from which the work item must be retrieved.	Output Number: Returns a Number with the ID of Queue.

Table 15:I: Get QueueId

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2.3.7 I: Set WorkItem Status

This action sets the status of any workitem in the queue within a task bot.

Parameters/Inputs	Output
Queue Name: choose one of the available queues in which the status of the workitem should be updated	Output Number: Returns a number 200 if the execution is successful.
WorkItem Id: Id of the workitem to set the status.	
WorkItem Status: value to set as the status of a work item as Defer/Completed/Failed/Re Process.	
WorkItem Result [optional]: Any string value to set as a result of the processed workitem.	

Table 16:I: Set WorkItem Status

2.3.8 I: Update WorkItem

This action updates a workitem in the queue within a task bot.

Parameters/Inputs	Output
Queue Name: choose one of the available queues in which the workitem should be updated.	Output Number: Returns a number 200 if the execution is successful.
WorkItem Id: Id of the workitem to set the status.	
WorkItem Data: Map all the column values in the selected WorkItem for updating them.	
WorkItem Status: value to set as the work item status as Defer/Completed/Failed/Re Process.	
WorkItem Result [optional]: Any string value to set as a result of the processed workitem.	

Table 17: I: Update WorkItem

2.3.9 I: Upload WorkItems

This action creates bulk workitems from a CSV/Excel file in the queue within a task bot.

Parameters/Inputs	Output
Queue Name: choose one of the available queues into which the workitems must be bulk-created.	Output Number: Return 200 status code in case of successful execution.
CSV/Excel File: The file from which all the workitems should be created into the queue.	

Table 18: I: Upload WorkItems

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2.4 WBZ IQ Bot Plus

2.4.1 I: Upload Document

This action uploads a document for extraction using IQ Bot.

Parameters/Inputs	Output
Learning Instance Name: Learning Instance to which the input file should be uploaded.	Output Dictionary: Returns dictionary value with keys as UploadStatus, fileId, projectId, and processed
Local File Path: Location of the file for extraction.	

Table 18: I: Upload Document

2.4.2 I: Check Document Status

This action checks the processing status of the uploaded document to IQ Bot's Learning Instance.

Parameters/Inputs	Output
Learning Instance Name: Learning Instance to which the input file is uploaded.	Output Dictionary: Returns dictionary value with keys Status and error in case of any.
File Id: The file ID returned from the upload document action.	

Table 19: I: Check Document Status

2.4.3 I: Get Extracted Results

This action downloads the extracted results from IQ Bot's Learning Instance.

Parameters/Inputs	Output
Export Results format: The exported results can be stored in JSON/CSV formats.	Output DataTable: Returns data table value with extracted results as rows.
File Id: The file ID returned from the upload document action.	
Delete Results from server [optional]: checkbox to decide whether to delete the results from the server.	

Table 20: I: Get Extracted Results

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2.5 WBZ PowerPack

2.5.1 I: Autofit Columns

This action auto-fits the columns in Excel workbooks according to content without opening it using the Excel application.

Parameters/Inputs	Output
Excel File Path: The Excel file path in which the columns must be autofitted for the content.	Output: None.
Choice: The auto-fit option must be for the entire workbook or only a specific sheet. Also, select to fit all or only one selected column.	

Table 21:I: Autofit Columns

2.5.2 I: Get Global Value

This action retrieves the Global Variable value within the task bot.

Parameters/Inputs	Output
Variable Name: The Global Variable name whose value must be retrieved.	Output: Returns the global variable value of its datatypes like String, Boolean, Datetime, or Number.
Value Type: The option for retrieving user/Default value.	

Table 22: I: Get Global Value

2.5.3 I: Record as Dictionary

This action converts a Record to a Dictionary within the task bot.

Parameters/Inputs	Output
Record: The Record Variable for converting into a dictionary variable.	Output Dictionary: Returns the dictionary variable with the Key, Values as column headers, and values from the input record.

Table 23: I: Record as Dictionary

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2.5.4 I: Get Worksheet Names

This action gets the list of worksheet names present in the Excel workbook.

Parameters/Inputs	Output
Excel File Path: The Excel workbook path for retrieving the list of available worksheets without opening the Excel application.	Output List: Returns a list of variables with a list of worksheet names available in the input workbook.

Table 24: I: Get Worksheet Names

2.5.5 I: Regex Extract

This action performs a regex match on the input string; the regex pattern is built from the regex101 portal and used as input.

Parameters/Inputs	Output
Regex Pattern: The regex pattern for validating the input string.	Output Dictionary: Returns a Dictionary of variables with regex extracted groups.
String Value: The string value on which the regex pattern should be used for validation.	
Delimiter: The delimiter that separates the flags and actual pattern in the input pattern string.	

Table 25: I: Regex Extract

2.5.6 I: Round Number

This action performs a round on the input number to selected decimal places.

Parameters/Inputs	Output
Number: The input decimal number to perform the round.	Output String: Returns a string value of rounded input number.
Round Type: Round type (round up/round down/round).	
Decimal Positions: The number of decimal positions in the input number to be rounded.	

Table 26: I: Round Number

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2.5.7 I: Log Message

This action creates a log file and adds log messages to the file.

Parameters/Inputs	Output
Log Level: The log message level: Information/Critical/Warning/Success.	Output: Creates a log file with the name as execution ID of task bot in C:\Automation Anywhere\Bots\Custom Logs folder on the bot runner machine.
Log Message: The log message for recording in the log file.	

Table 27: I: Log Message

2.5.8 I: Update Global Value

This action updates the global value variable from the task bot.

Parameters/Inputs	Output
Global Variable Name: The name of the global variable to update. Datatype of Variable: The datatype of the global variable. Value: The value to be updated as the global variable value.	Output: None.

Table 28: I: Update Global Value

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APPENDIX: Source Code

- WBZ Data Table Plus
- WBZ File Plus
- WBZ Workload Plus
- WBZ IQ Bot Plus
- WBZ PowerPack

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