

BMCIncidentManager-Automation Anywhere Readme

Version 1.0 October 21, 2019



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Introduction

This document contains all essential information for the user to make full use of the Bot or Digital worker. This manual includes a description of the functions and capabilities and step-by-step procedures for setup & configuration of the Bot.

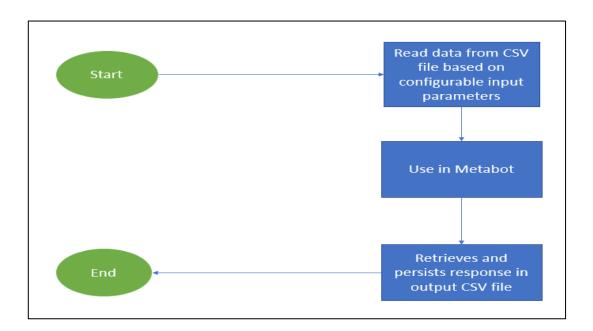
Overview

This Bot reads Information from a <u>CSV</u> Template based on Filter Conditions & other configurable parameters (as explained below) for Create Incidents, Read incidents and Update Incidents use case, it will read the information from user input and store output in CSV File after processing input csv file and user input respectively.

Detailed steps are as follows:

- 1) Reads data from a <u>CSV</u> file, e.g. CreateIncidentInput.csv, GetIncidentInput.csv, UpdateIncidentInput.csv.
- Exports data to the <u>CSV</u> Template based on Filter conditions set by a user.
 Filter conditions are as below (Click individual to read details)
 - Filter based on Column Value

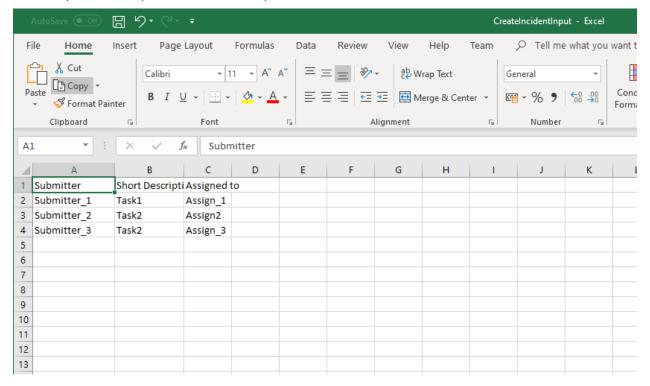
Visual flow



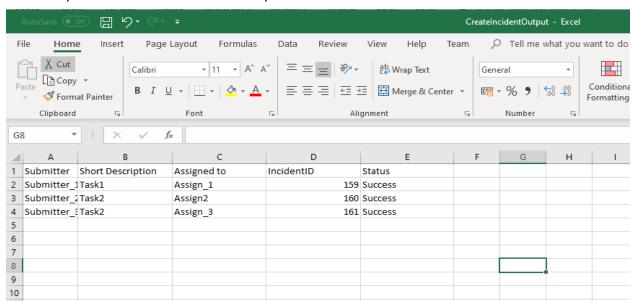


Create Incident:

Input: Reads parameters from input csv file:



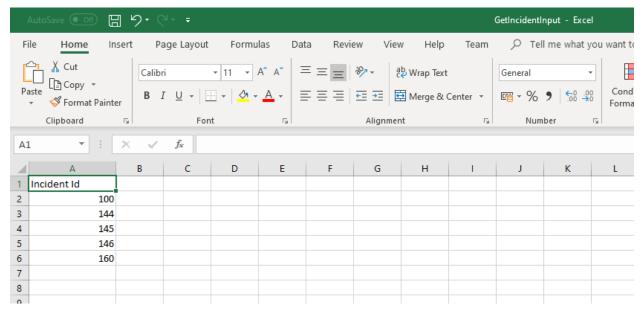
Output: Saves the result in the output csv file



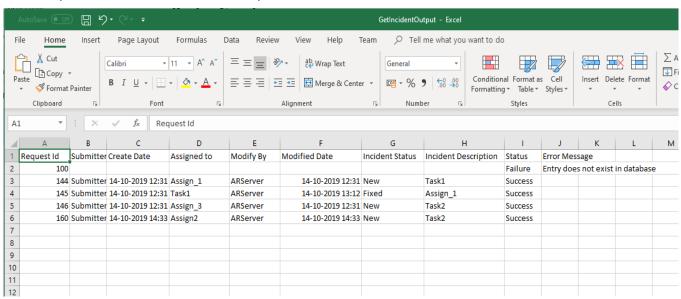


Read Incident

Input: Reads parameters from input csv file:

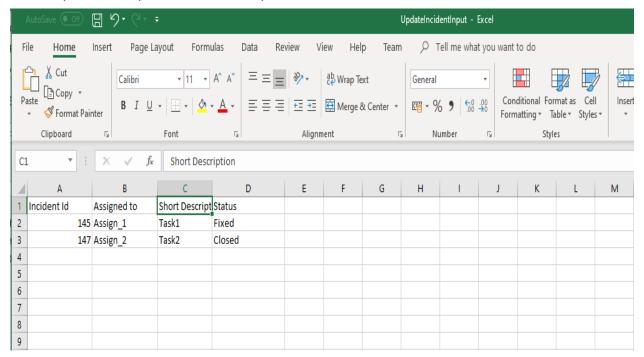


Output: Saves the result in the output csv file

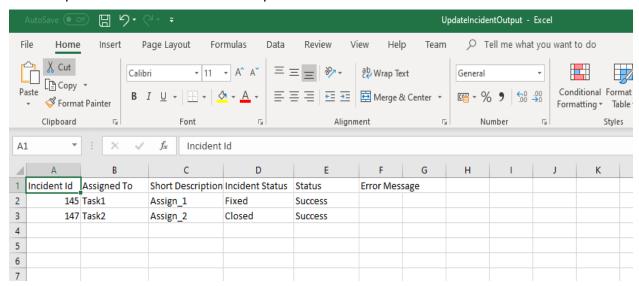


Update Incident

Input: Reads parameters from input csv file:



Output: Saves the result in the output csv file





Common Use cases



The fields in the <u>CSV</u> can be changed to whatever data that needs to be added in list. Examples of use cases includes:

- Create Incident in a regular form
- Read Incidents in a regular form
- Update Incidents in a regular form



Requirements & Prerequisites

System Requirements



For the PC or server where the bot needs to run:

- ✓ RAM: 8GB or higher
- ✓ PROCESSOR: Intel Core i5 or higher and equivalent for any other OS
- ✓ Hard Disk: Up to 2GB of overall free space in the AA Client installation drive.

Reference below for Enterprise Client & Control Room system requirements.

Prerequisites



- Software's needed -
- ✓ AA Enterprise Client 11.3.3
- ✓ AA Enterprise Control Room 11.3.3
- Accounts/License needed -
- ✓ BMC Account. BMC account can be opened at here
- ✓ AA Enterprise License



Security Measures



There are some security best practice recommendations that you may follow with your bot.

- It is not recommended to provide admin access to the Windows User Account executing the Bots, to avoid unintended data changes with the <u>CSV</u> Template.
- It is recommended to rotate server password twice or more in a quarter using Server setting in Remedy Mid Tier Configuration Tool which ensure data safety.
- Password stored in credential vault should not be reused in other systems.
 - Username used for BMC and stored in credentials vault should be reused in other systems only if corporate security policies allow it.
 - BMC URL should use secure connection('https'). Configure your URL click here



Getting Started

Skill Matrix



The functionality of the Bot has been divided into set of skills.

Below is an overview of how the task bots and metabots map to these skills:

Skill	Task Files	MetaBot Files
Create Incident, Read Incidents, Update Incidents	BMCIncident.atmx	BMCIncident.mbot

Installation Hierarchy



Once the bot is downloaded and installed, the installer creates the files in the folder structure as shown below.

Folder Structure on your Machine

Folder Structure	Description	
< <u>AA Application Path</u> >	<aa application="" path=""> is the location where AA files are stored on your machine</aa>	
1. My Tasks	1. My Tasks	
1.1. Bot Store	My Task Folder is the default directory where Bot Files are saved. 1.1 Bot Store Bot Store Folder contains the Bot Name Folder which the installer creates while installation of	
1.1.1. BMCIncidentManager-	the Bot.	
AutomationAnywhere	1.1.1 BMCIncidentManager-	
 Error Folder Logs Error logs Month-Day-Year.txt Snapshots Error Snap Month-Day-Year HourMinSec.png 	AutomationAnywhere This folder gets created by the installer and contains files and folders that are needed for the bot execution. Ferror folder is where logs and snapshots of screens will be placed if something goes wrong with the bot during execution	
 Input Folder CreateIncidentInput.csv ReadIncidentInput.csv UpdateIncidentInput.csv 	 Input Folder is where the input files are saved that are needed by the taskbot for execution of the use case CreateIncidentInput.csv provides parameters that can be used as input for the incident creation in form and given as an input to the bot. There can only be some fields that are used as input Submitter, Short Description and Assigned to which creates incident. 	



 ReadIncidentInput.csv 	provides
parameter (Incident Id) that can	be used as
input for the incident for which o	details need
to be retrieved from the form.	
• UndateIncidentInnut csy	nrovidas

 UpdateIncidentInput.csv provides parameters that are used for updating incident fields which are Assigned to, Short description and Status(one of Fixed, Closed, Assigned, Rejected).

- Output Folder
 - CreateIncidentOutput.csv
 - ReadIncidentOutput.csv
 - UpdateIncidentOutput.csv

- My Tasks
 - 01 BMCIncident.atmx

- ➤ Output Folder is where the output files that the bot creates after execution of the use case is saved
 - CreateIncidentOutput.csv contains Create Incident response along with status and error message, if any.
 - ReadIncidentOutput.csv contains Read Incident response along with status and error message, if any.
 - UpdateIncidentOutput.csv contains
 Update Incident response along with status and error message, if any.
- ➤ My Tasks folder contains all the developed Platform Source Code

- 2. My MetaBots
 - > BMCIncident.mbot

2.**My MetaBots** folder contains the developed Metabots needed for the bot execution.



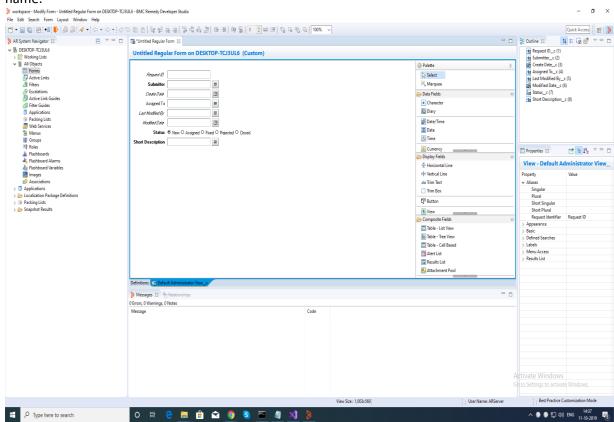
Quick Start

Setup



1.1.1.1 STEP 1 (Create form in the AR Server):

- If you already have a form created, then you can skip this step
- In AR System Navigator, expand serverName > All Objects.
- Right-click Forms, and select New Regular Form
- An Untitled Regular Form appears with the Core fields as displayed in the <u>Create Form window</u> and core fields figure.
- Right click on the Untitled Regular form and select save. Save the form with an appropriate form



• For more information <u>click here</u>



1.1.1.2 Step 2 (Generating TokenURL and IncidentURL):

- For https services ,AR Server URL is https://<server name>:<port>
- Port refers to the port number on which Jetty server is running.
- You can configure the port in AR server by changing jetty-selector.xml file.
- For more information click here.
- TokenURL: AR Server URL/api/jwt/login
- IncidentURL: AR Server URL/api/arsys/v1/entry/{form-name}
- Password should be changed at regular intervals, according to corporate policies.

AR Server password can be changed as:

Log in to Remedy MidTier - Configuration Tool

Go and edit the Server settings and update the password Update the password in credential vault.

Note: Here the form-name is the name of the form that we created in step 1.

Configuration



STEP 1 (Configuring Credential in Control Room's Credential Vault)

Passwords and other sensitive information such as Server URL, Username and password used in automation tasks, should be stored as credentials centrally in the Credential Vault.

These sensitive data items are secured (stored in <u>CR</u>) and can't be accessed locally which is used by the bots when it executes in the machine.

Below are the step-by-step instructions for what needs to be done to set up the Server Uri, Username and Password for BMC incident in the Credential Vault.

- 'Locker Consumer Role' needs to be assigned to the <u>AA</u> user (bot runner) which ensures the user have full access to the locker.
- Locker needs to created with name as "BMCIncident_Locker"
- Credential needs to created with name as "BMCIncident_Credential", where the URL and Token needs to be saved.



Locker Name	Credentials Name	Attribute Name	Value
BMCIncident_Locker	BMCIncident_Credential	TokenURL	Token URL value should be as mentioned in step 2 of SetUp.
BMCIncident_Locker	BMCIncident_Credential	IncidentURL	Incident URL should be as mentioned in step 2 of <u>SetUp</u> .
BMCIncident_Locker	BMCIncident_Credential	Username	Username of BMC Remedy AR server
BMCIncident_Locker	BMCIncident_Credential	Password	Password of BMC Remedy AR Server

For more information on how to set up credentials in the Control Room, please visit this link on the Automation Anywhere Product Documentation portal.

STEP 2 (Configuring Parameters with an External File)

External file can be configured at -

AA Application Path > My Tasks > Bot Store > BMCIncidentManager-AutomationAnywhere > Input Folder > CreateIncidentInput.csv

AA Application Path > My Tasks > Bot Store > BMCIncidentManager-AutomationAnywhere > Input Folder > GetIncidentInput.csv

AA Application Path > My Tasks > Bot Store > BMCIncidentManager-AutomationAnywhere > Input Folder > UpdateIncidentInput.csv

This is where, the input values for variables are stored that are needed by the bot at the time of execution. (Sensitive variables – like user name, password, and URLs will be an input in the Credential).



Below is a table that summaries what the variable name is, what it does, and an example of the input & output:

Input variables:

INPUT VARIABLES: NEEDS TO BE CONFIGURED BY THE USERS FOR INPUT PARAMETER					
Variable Name Type Mandatory (Yes/No) Purpose Example Input					
Prompt-Assignment	Text	Yes	Decides which metabot has been called based on its value Val: 1 CreateIncident Val: 2 ReadIncident Val: 3 UpdateIncident	2	
vErrorFolder	Text	Yes	Location where Error folder is located	\$AAApplicationPath\$\Automation Anywhere\MyTasks\Bot Store\BMCIncidentManager- AutomationAnywhere\Error Folder	
vInputCSVPath	Text	Yes	File path where Input CSV file is located	\$AAApplicationPath\$\Automation Anywhere\MyTasks\Bot Store\BMCIncidentManager- AutomationAnywhere\Input Folder\CreateIncidentInput.csv	
vOutputCSVPath	Text	Yes	File path where Output CSV is located	\$AAApplicationPath\$\Automation Anywhere\MyTasks\Bot Store\BMCIncidentManager- AutomationAnywhere\Output Folder\CreateIncidentOutput.csv	
vOutputFolder	Text	Yes	Location where Output folder is located.	\$AAApplicationPath\$\Automation Anywhere\MyTasks\Bot Store\BMCIncidentManager- AutomationAnywhere\Output Folder	
vSnapshotFolder	Text	Yes	Location where Snapshot folder is located	\$AAApplicationPath\$\Automation Anywhere\MyTasks\Bot Store\BMCIncidentManager- AutomationAnywhere\Error Folder\Snapshots	
vToken	Text	Yes	JWT token that is generated after calling Generate Token function	eyJhbGciOiJIUzl1N	

vInputFolder	Text	Yes	Location where Input folder is located.	\$AAApplicationPath\$\Automation Anywhere\MyTasks\Bot Store\BMCIncidentManager- AutomationAnywhere\Input Folder
vLogFolder	Text	Yes	Location where Log folder is located.	\$AAApplicationPath\$\Automation Anywhere\MyTasks\Bot Store\BMCIncidentManager- AutomationAnywhere\Error Folder\Errors

Output Variables:

OUTPUT VARIABLES: SAVE OUTPUT RESPONSE				
Variable Name	Туре	Mandatory (Yes/No)	Purpose	Example Input
vResponse	Text	Yes	Returns Success message about the incident	The result is generated in the output csv file.

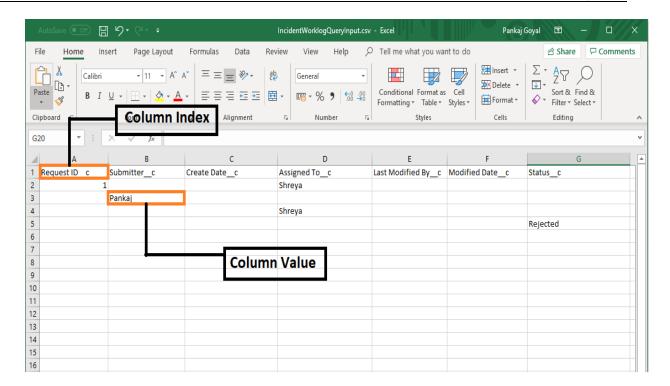
Guidance for configurating Filter conditions are described below:

a. Filter based on Column Value

vColumnIndex and vColumnValue variables are needed to configure this.

'vColumnIndex' is the column name which needs to be defined in the config file.

'vColumnValue' is the value which needs to be matched against the mentioned Column name.



Input CSV Files-

CreateIncidentInput.csv

Required Parameters-

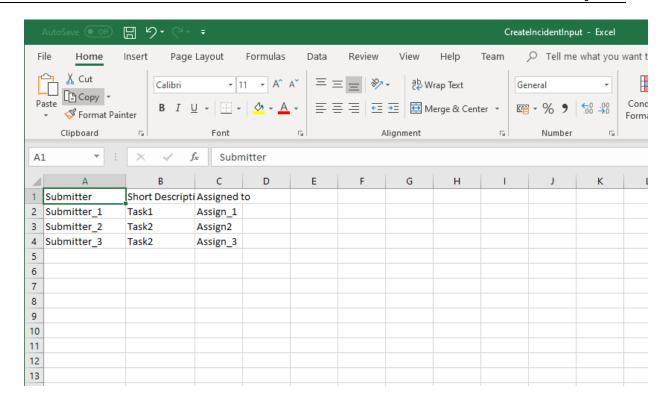
File Parameter Name	Туре	Description	Example Input
Submitter	Text	Submitter's name of the incident	Submitter_Test
Short Description	Text	Short Description about the incident	A short description about the incident

Optional Parameters -

(If you don't want to add any value in the parameter leave it empty)

File Parameter Name	Туре	Description	Example Input
Assigned to	Text	Name of the person who is assigned this incident	Assignee_Test

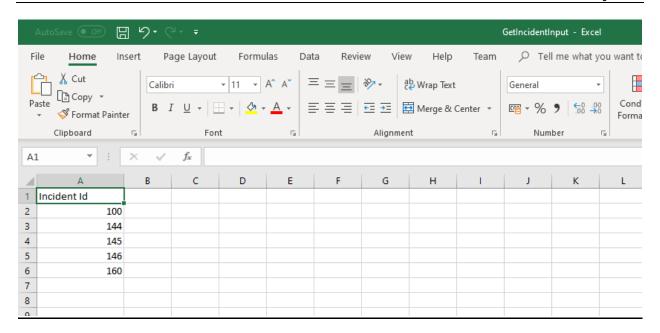




GetIncidentInput.csv

• Required Parameters-

File Parameter Name	Туре	Description	Example Input
	Text	Incident Id whose	0000019
Incident Id		description has been fetched	



UpdateIncidentInput.csv

• Required Parameters-

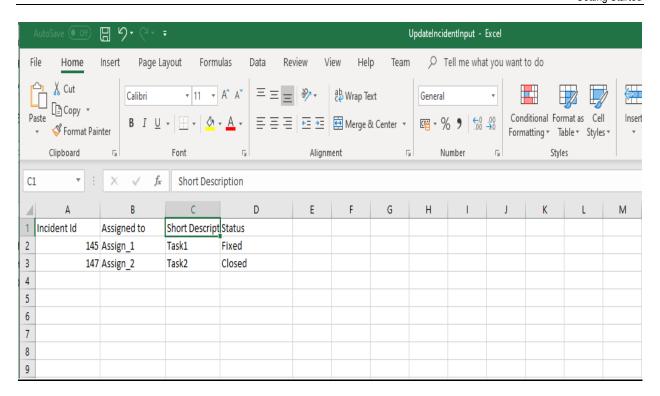
File Parameter Name	Туре	Description	Example Input
	Text	Incident Id whose	0000019
		description has been	
Incident Id		updated	

Optional Parameters -

(If you don't want to add any value in the parameter leave it empty)

File Parameter Name	Туре	Description	Example Input
Assigned to	Text	Name of the person who is assigned this incident	Assignee_Test
Short Description	Text	Updated Short Description about the incident	A new short description about the incident





4. Reports



There are no Bot Insight Reports generated for this Bot.



Logs



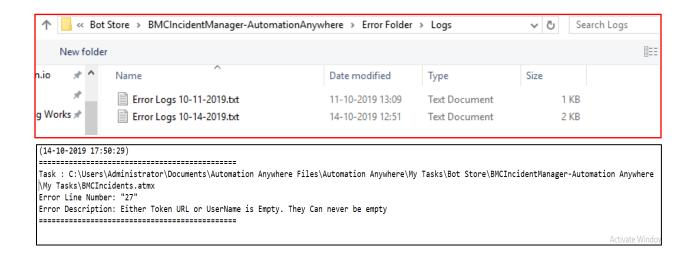
In case of Errors, Error Logs & Screenshots are generated within Error Folder (Highlighted below in yellow)

- My Tasks
 - Bot Store
 - Bot Name
 - o Error Folder
 - Logs (Folder)
 - Error Logs Month-Day-Year.txt
 - Snapshots (Folder)
 - Error Snap Month-Day-Year HourMinSec.png

Error Logs will contain the below information -

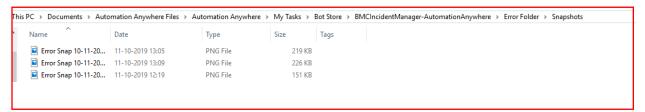
- Task Name
- Error Line Number
- Error Description
- Generated Timestamp

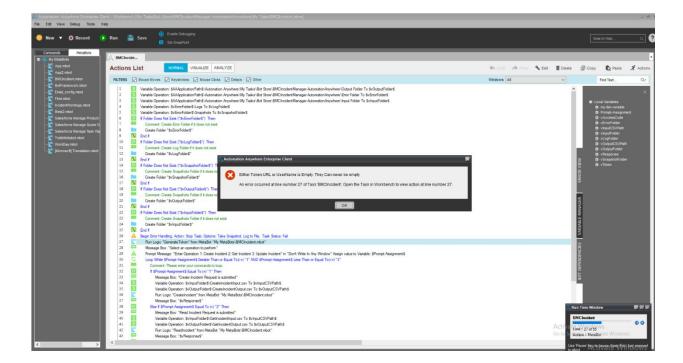
Example:





Example of Screenshot Generated Error File:







Troubleshooting & Support



Support



Free bots are currently not supported directly.



Questions on Bot Functionality or Feature can also be posted to our Community site Apeople

Automation Anywhere provides a <u>Product Documentation portal</u> which can be accessed for more information about <u>AA</u>'s products and guidance on building bots and Digital Workers.

The "Build" section of the portal includes these sections:

- Getting Started information on building bots recommended practices (including use of the Credential Vault)
- Build Advanced Bots details on MetaBots and the approach to integrating code into them
- Build Digital Workers high level architecture
- •

FAQs



Q: The 'Create Locker' button not visible in the Credential Vault Page. What do I do?

A: Please check if the role 'Locker Consumer' is assigned to the user and you are using an Enterprise Client version.



Appendix A: Record of Changes

No.	Version Number	Date of Change (DD/MM/YYYY)	Author	Notes
1	1.0	October 21, 2019	Nikhil Gupta Pankaj Goyal	Version 1 Release



Appendix B: Acronyms

No.	Acronym	Description
1	AA	Automation Anywhere
2	CSV	Comma Separated File
3	DW	Digital Worker
4	CR	Credential Vault
5	CRM	Customer Relationship Management
6	API	Application Programming Interface
7	PC	Personal Computer
8	RAM	Random Access Memory
9	OS	Operating System



Appendix C: References

No.	Topic	Reference Link
1	System Requirements - Client	Click <u>here</u>
2	System Requirements – Control Room	Click <u>here</u>
3	How to create credential & Locker?	Click <u>here</u>
4	Credential Overview	Click <u>here</u>
5	Apeople Community Site	Click <u>here</u>
6	Product Documentation portal	Click <u>here</u>