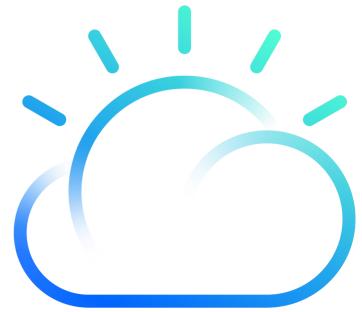
TDM

IBM Robotic Process Automation with Automation Anywhere 24 April 2018

Dr. Reinhold Engelbrecht
IBM Digital Business Automation
Technical Sales Leader Europe
r_engelbrecht@at.ibm.com









Physical robots

Perform repetitive **physical** tasks

Example:

- Pick eight chocolates from assembly line
- Assemble a finished box of chocolates



Software robots

Perform repetitive **software** tasks

Example:

- Log in to four different systems
- Navigate legacy screens to retrieve data
- Use data to open new account in system of record



ROBOTIC PROCESS AUTOMATION (RPA)

enables companies to easily automate mundane, repetitive tasks in order to free up employees to perform higher value work

HOW RPA WORKS:

RPA 'bots' replicate the actions of humans interacting with application user interfaces

- No changes to existing interfaces
- Reduces swivel chair integration
- Efficiently execute high volume work

Key Benefits of Robotic Process Automation





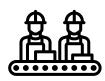
Accelerate time to value

Create, test and deliver new automations in days or weeks



Reduce human error

Eliminate copy/paste mistakes introduced by swivel chair integration



Increase throughput

Fulfill automated tasks in seconds or minutes, round the clock

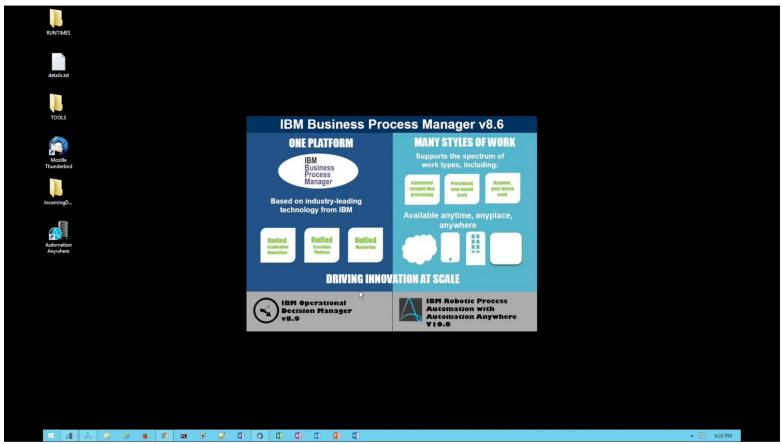


Decrease development costs

Develop
automations quickly
with simple
record/playback
functions

How does a Software Robot look like?





Industry Use Cases



Banking and Insurance

Banking data migrations, Insurance Claims tasks, Loan origination

Healthcare Doctor reporting,

Medical Bills, Medical claims tasks



Distribution Travel & **Transportation**

Invoices

Payroll

Vehicle checks and reporting

Media & Communication

Order management Phone info reporting Backup data



RPA



Energy & Utilities

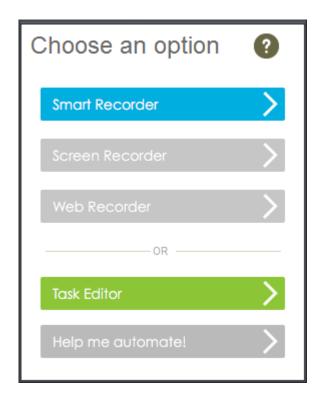
Data collection & reporting Contracts Regulations & compliance

Data conversions Cross Industry HR processes **ERP Transactions** Mass email handling

Reporting **Data Migrations**

TRM

Build a Bot Task in a few Minutes



Smart Recorder captures objects from various applications that use different technologies such as html, .NET, WPF, Java, Flex and Silverlight. These are saved as a set of Object Cloning commands. Can locate moved controls.

Object Cloning
Select Window:
Text coach view - Internet Explorer

Object Details:

Type: TextBox Technology: HTML

HTML ID

Select Search Criteria:

OBJECT COORDINATES IMAGE

4|3|1|2|1

Text_Text2

//div[@id='mainBody']/div[3]/.





MHTML Tag NPUT

Walt for the object to exist. 15 seconds

TP:

Double click on a property to edit. Press F2 to insert a variable.

Click and hold the mouse and drag the mouse where you want to Capture

tect Play Mode:

Object

Coordinates

Image

Select Action : Select Action To Perform

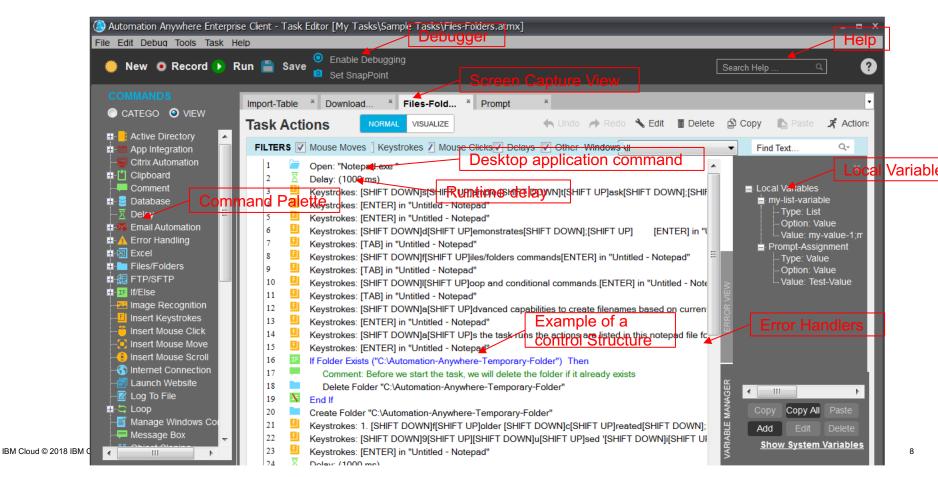
Select Action

Get Property Set Text Append Text

Left Click

Task Editor





500+ Bot Commands Available





REST Web Service



Key Key strokes / Mouse

Edit mouse moves and key strokes

Program / Files / Windows

 Interact with Windows OS elements (files, windows, etc..)

Conditions / Loops

Add programming construct

Pause / Delays / Wait

 Wait for window to show up before clicking on it

Internet

 Start Web browser window, upload a file, call REST API...

Tasks / Scripts

Interact with recorded tasks

Applications

 Interact with applications (DB/Excel) and files (XML/CSV)

Interactive

Insert message box, get input

Miscellaneous

Variable or Clipboard, String operations,

System

Printers, Services, LDAP

Advanced

Fault handlers, Image processing

Integration Pack

- Work with PDF, receive emails,
- App Integration and Terminal Emulator

Security

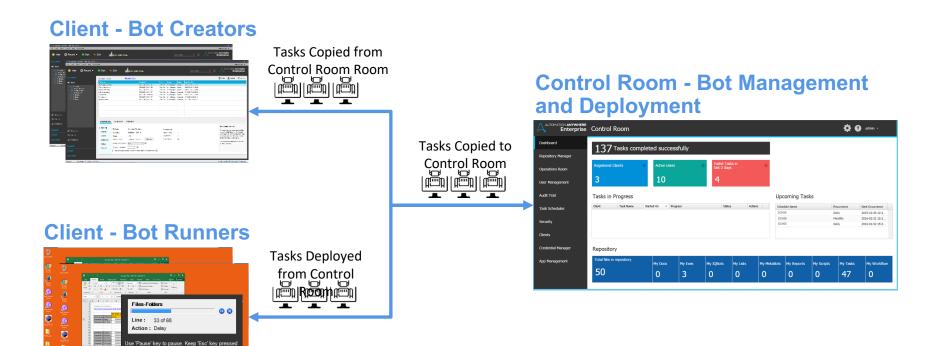
Encrypt / decrypt files

SAP

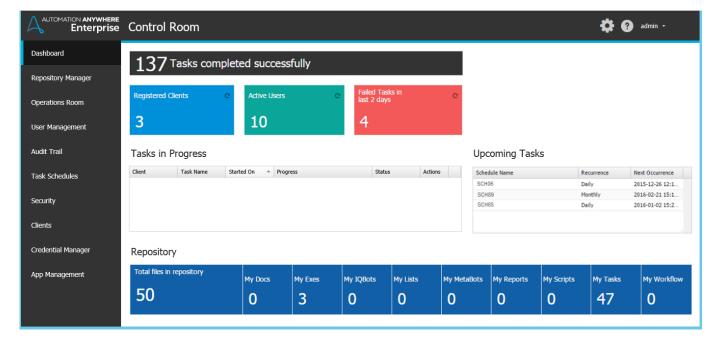
Work with SAP GUI

Deploying a Task Bot





Control Room – Bot and User Management Console

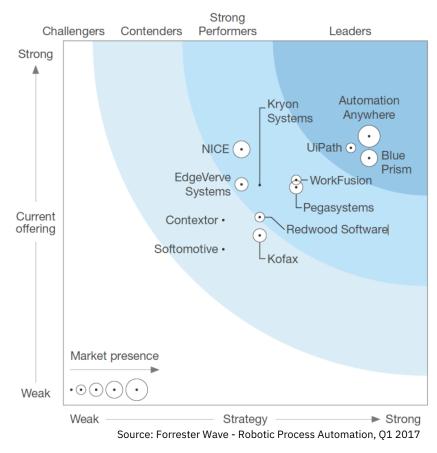




- Dashboard to view Bot activities
- Repository Manager to manage uploaded Bots
- Task Scheduler to deploy Bots to Bot Runners and manage Bot dependencies
- Operation Room to view the control room history and tasks in progress.
- User Management to configure users (developers, bot runners, administrators)
- Audit Trail to display all Control Room events

Analyst View



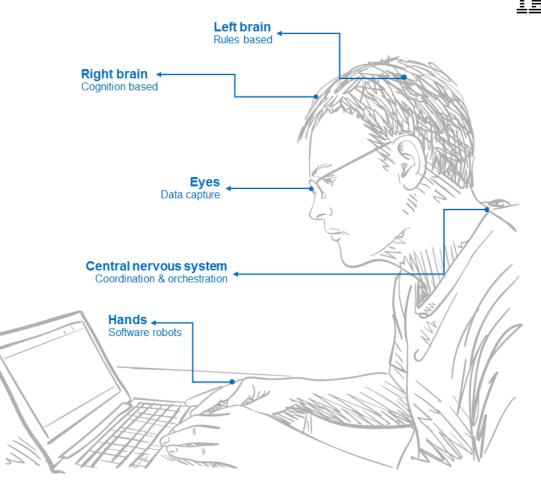






Beyond Task Automation: Digital Labor

Our mission is to extend humans with digital labor to enable businesses to scale



Use Case: Data Collection

A bot can read from ...

- Databases
- CSV files
- PDF files
- Web Application screens (no API needed)
- Thick Client application (without API)
- Host terminals

- ... And even from <u>unstructured</u> information



IBM

Extracting Data from Unstructured Information

IBM Datacap efficiently captures, accesses, analyzes critical transactional business content, producing clean structured data that robots need to operate continuously and efficiently.

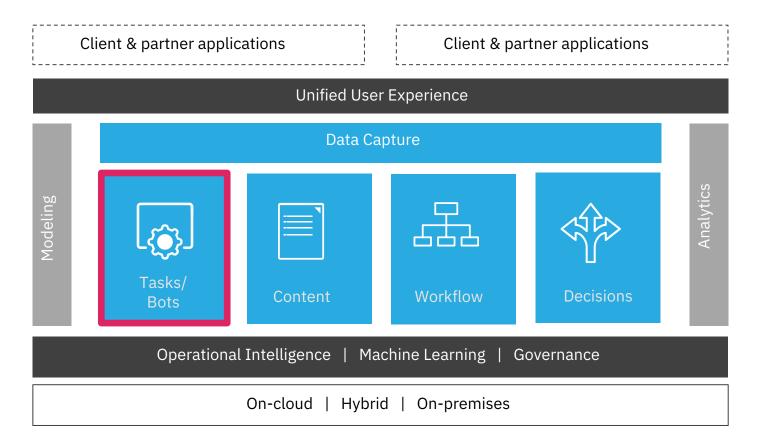
- Feeds data to robots from non-digital channels like mail, fax, email and mobile capture
- Digitizes and extracts data with cognitive capture
- Identifies errors before they get to the bots, minimizing exceptions



Product Commander 4.0 Cu. Ft. Category 26-Cycle King-Size Size Model washer Color white Issue large items leaves dry spots Issue 1/2 basket Issue Issue not clean mix bleach Issue

IBM Digital Business Automation









Join a free test drive of IBM Robotic Process Automation!

On Cloud Garage

