

Prodapt, powering global telecom

# **Recipe for managing the digital** workforce effectively

Reduce 30% of operations efforts and meet SLAs

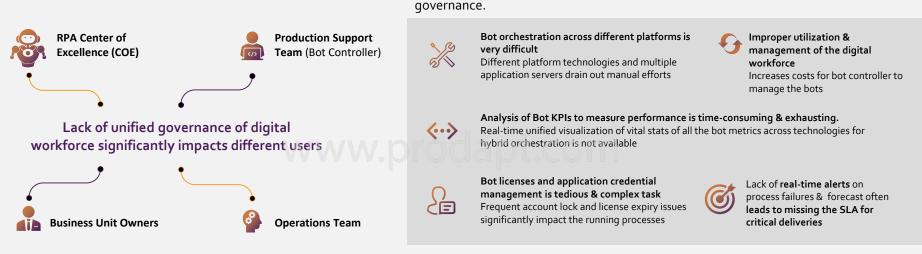
Credits

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# Governance of Digital Workforce is Becoming a Consistent Challenge in the Course of Adopting Robotics and Cognitive Automation

The telecom industry, today, is riding the automation wave. Painful manual tasks, which burdened staffs for ages, can now be easily handled by the software bots. However, in the process of onboarding the digital workforce, most DSPs have missed to establishing strong unified



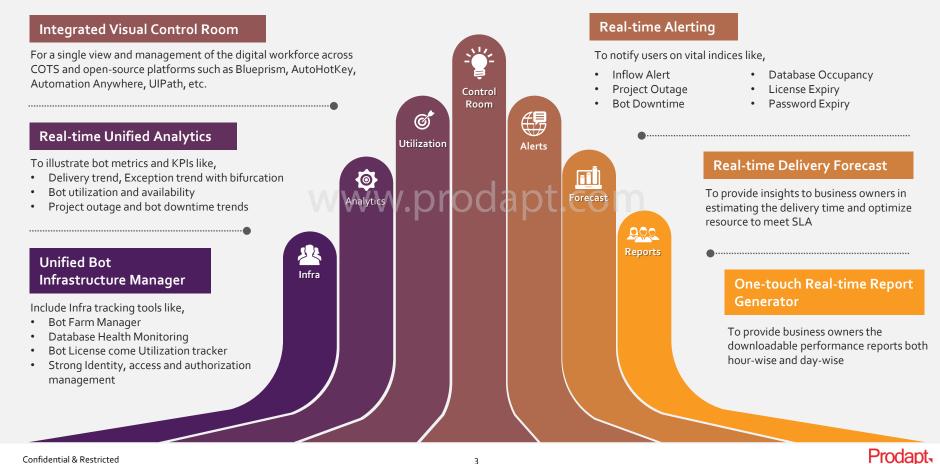
Findings from a <u>Forrester Consulting</u> report show that the **majority of DSPs struggle with RPA Bot governance in their organization**. **Survey question** - With which technical & deployment issues is your organization struggling with when it comes to RPA technology?



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# Focus Areas to Consider for Establishing an Effective RPA Bot Governance Model



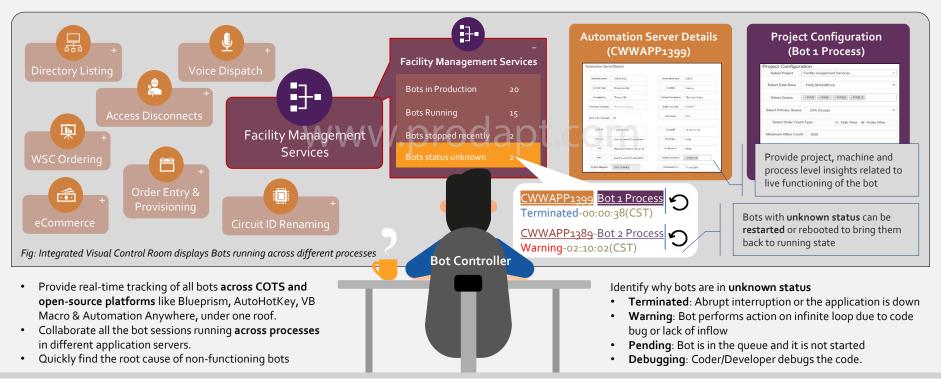


# Integrated Visual Control Room to Efficiently Manage a Digital Workforce

Higher levels of collaboration & transparency while managing bots across processes & platforms

**The Production support team** lacks an integrated view of all the bots deployed across different processes and platforms. They need to manually login to each bot machine, analyse issues and then take subsequent action.

An integrated visual control room can address this problem more efficiently



# Real-time Bot Delivery Forecast & Inflow Alert Mechanism

Visualize key metrics in real-time to meet the required SLA

<b>Business Unit Owners</b>	Lacks real-time visibility in the running processes.	(
Production Support Team	Not aware of inflow in real-time and if the bot has stopped picking orders. Such production outage issues easily take 20-30 mins even to be detected.	Ì

ot Delivery Forecast an	d Inflow A	lert Mechanis	m				
		Order Details		Bot Detai	ls		
Process Automation	Estimated Inflow / day	Current Inflow	Completed Orders	Average Handling Time (in mins)	Bot Assigned	Hours to Complete	Inflow Alert
Directory Listing	800	2	1	1.85	1	24.64	Receiving Inflo
Access Disconnects	800	117	97	28	<u>//1</u>	A 32.81	Receiving Inflo
Voice Dispatch	120	3	0	6.23	1	12.46	C No Infle
Order Entry and Order Provisioning	550	28	16	4.56	10	<b>B</b> 4.06	Receiving Inflo
Facility Assignment Services	1000	98	63	12.6	16	12.3	ing Inflow

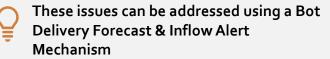
Fig: Sample Image of Delivery Forecast & Inflow Alerts for Different Processes

**Delivery forecast for a process** can be calculated by capturing following details:

- Average Handling Time for an order to be completed The estimated Inflow for the Number of bots assigned
- day
  - Number of orders completed

**Reallocate or scale-up bots** for any specific processes, which are lagging behind.

E.g. Bots can be switched from Order Entry & Order Provisioning Process to Access AB Disconnects Process, ensuring SLAs for both the processes are met for the day.





Real-time notification of inflow alert to the production support team. Quickly detect the issue, thereby reducing any downtime impact.

Estimated delivery forecast for each running process. Facilitates BU owners to add additional resources for on-time delivery.



Helps RPA Center of Excellence (COE) team to reallocate required number bots for different processes from the unused/underutilized ones.

Inflow alert status type:

- Receiving-Inflow: Indicates bot is active and acts on the input from the source
- No-Inflow: Indicates bot is not in a position to consume the orders even though it is in active & running state.
- E.g. For Voice Dispatch Processes, though the bot is in running status, it is not picking the orders. This requires immediate action or else can impact the SLA for this process.



# Automated Application Credential Management & Bot License Tracker

Prevent production outage by avoiding account lock & license expiry issues



# Automated Application Credential Management

- Manually managing credentials is a complex & lengthy process
- Build a strong Identity, access and authorization management
- Automate credential management process along with data privacy

						GID	G9989074	
S.No#	GID	ExpireDate▼▲	Project	View	Edit			
1	G9984776	2019-10-30	WSC Ordering			Password		
	03304110	2015-10-50	wac ordening	۲	G	Expire Date	2020-02-03	
2	G9989074	2020-02-03	Directory Listing					
				- dm		ExpirePeriod	80	
3	G9989075	2020-02-03	Directory Listing	۲	ଓ	Project Mapped:	× Directory Listing	
<b>F</b> ' <b>C</b>	] . ]	V V 3		Dev .				
Fig: San	npie image of	Application Cred	ential Tracker			Data Virtualization	Test	

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# Bot License Expiry & Occupancy Tracker

- Licenses once purchased, get used across different processes over time.
- Tracking license usage & expiry across processes gets complicated with more automation.
- A bot license expiry and occupancy tracker is vital to tackle this tedious task.

S.No#	License Name	license Owner	Start Date▼ ▲	Expire Date	License Count	Un Used	View
1	Facility Assignment Services - 5 licenses	James Smith	2019-12-19	2021-12-18	5	0	B
2	Service Activation 16 Bot License	James Smith	2019-12-13	2022-12-12	16	0	
					License Name	Facility Assignment Service	ces - 5 Lhumses
3	Voice Dispatch - 4 License	James Smith	2019-10-09	2021-10-08			
					Licence Count	5	
4	CLLI Code Standardization	James Smith	2019-10-01	2022-09-30	Projects Mapped		
						Facility Assignment Servic	es (1 Bot)
					Environment	Voice Dispatch (3 Bot)	
Eia. Sa	mple Image for Bot License e	vniny & Occu	nancy Track	or		Directory Listing (1 Bot)	
riy: 5u	inple influge jor bot License e	πριι γ α Οςτοι		51	Automation Tool	●Blue Prism ○AH	к

# Functionalities to be built



- License Utilization Tracker
- Provide a holistic view on all the license purchased for each process
- Keep a track of unused licenses across processes to re-use them more efficiently.

License Expiry Notification: An automated alert can be sent to RPA COE & Production Support on prior notice (e.g. 45 days before license expiry)

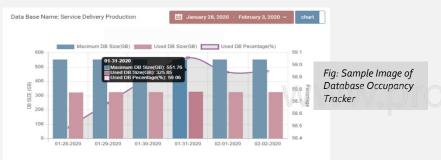


# Real-time Database Health Monitoring & Bot Infrastructure Manager



# Database Health & Occupancy Tracker

- Database health check assessment is crucial to avoid instability and performance issues
- Having real-time health monitoring to keep track of multiple databases across processes can avoid such impacts



Database Occupancy Notification & Warning Alerts

Generate real-time reports for stakeholders to take necessary actions

## Automated Database Housekeeping

Unwanted logs can be cleared intelligently to keep database occupancy under control



**Email Alert Notifications** can be sent to RPA COE and production support once the threshold is reached

# Bot Infrastructure Manager

- Managing the Automation Infrastructure by traditional methods limits visibility to availability, searchability, integrity, and consistency. This leads to improper utilization of resources.
- Unified Bot Infrastructure Manager can bring more visibility & transparency

S.No#	Machine Name ▼▲	Automation App <b>▼▲</b>	Server Type ▼▲	Current Occupancy	▼▲	GID	Locatio <b>▼</b> ▲	n view	Edit	Delete
1	VIRWF1162	COTS	Production Bot	Directory Listing		X9984776	Conway	C	C	â
2	VIRWF1688	Open Source	Production Bot	Automation ServerDetails						
3	VIRWF1665	COTS	Production	Machine name:	VIRW	F1162		Automationt Ap	p: COT	s
	VIIIIIII	-6013 = =	Bot	Server Type:	Produ	duction Bot		Location:	Conv	vay
4	VIRWF1666	COTS	Production Bot	Occupied by:	Thom	as Bill		Current Occupan	cy: Dire	ctory Listing
			500	Planned Occupany:	Plann	ed Occupany		Date Procured	5/1/2	017
	ample Image o	f Bot Infras	tructure	MSS EXE Installed				AD Group:	Prod	
Manag	ger									
				NAT IP:	71.29	. 163. 118		Actual IP:	10.10	4.147.34

# Bot Farm Manager

Keep track of availability of resources and provide configuration details such as Bot machine details, Associated Bot ID and Physical, Network and Logical Configuration

Benefits RPA COE, Production Support & Operations Team in effective management of infrastructure



# Dynamic Bot Utilization, Project Outage and Bot Downtime Cross-utilize bots across different processes and identify real-time production outages

Understanding and tracking bot utilization is very complex & time-consuming process for RPA COE and respective BU owners

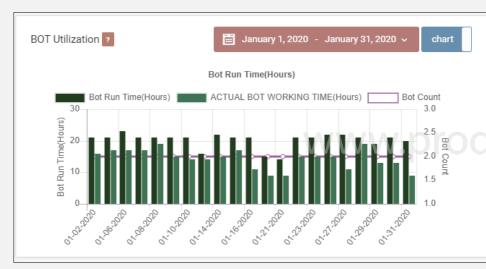


Fig: Sample image of Bot utilization over a period of time

# Analyze the average number of hours bots remain idle per day

 Monitor the difference between Actual bot Run time vs. Actual bot working time

# RPA COE can use these insights to cross-utilize bots across process

 Find what processes are lagging behind by looking at the delivery trends and reallocate the bots accordingly

# Analysing trends based on historical information can help in extracting actionable insights

All Terr S.No#	ninated Stopped Com Process Name	pleted Pending Resource Name	Debugging Arch Start Date	ived Stopping End Date	Current Time	BOT Start & Stop Time	Status	Time Difference(M)
1	DIRFOC Process	CWWAPP1156	02-21-2019 08:11:45	02-21-2019 08:11:50	02-03-2020 05:39:15	00:00:00- 23:59:00	Terminated	339
2	DIRLIST Process	CWWAPP1155	01-30-2020 20:52:29	01-31-2020 16:25:23	02-03-2020 05:39:15	00:00:00- 23:59:00	Completed	339
3	DIRCOMP Process	CWWAPP1161	01-31-2020 15:09:04	01-31-2020 16:23:44	02-03-2020 05:39:15	00:01:00- 23:59:00	Completed	338
	DIRFOC Process	CWWAPP1160	01-31-2020 15:09:04	01-31-2020 16:23:26	02-03-2020 05:39:16	00:00:00- 23:59:00	Terminated	339
Project Outt	Proje Proje Project Down To		տՈ		own Time 2	Bot Down Time	e(Hours) 01-31-2020 Bot Down Time(H	

Fig: Sample images of real-time Bot status, Project Outage trend and Bot downtime trend

- Send real-time email alerts on production outages
- Bot downtime hours is a clear indication to find gaps in the workflow. These insights can be used to optimize the processes

Historical trend for project outages shows for how long the project was consistently down

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# Business & Operational benefits Achieved by a Leading Digital Service Provider (DSP) in North America

The service provider faced huge challenges in establishing strong governance over the RPA bots, which were deployed across different processes and different COTS & Open Source platforms such as Blueprism, AutoHotKey, and VB Macro.

Establishing an effective **RPA bot governance model** as mentioned in this Insight, helped the DSP to realize major benefits



**Reduced operations** efforts by **30%**, optimizing bot utilization and effectively managing the bots across processes and platforms

# Key Benefits

Realized \$312K savings annually

~\$152K saved annually by automating the application credential and bot license management

~\$160K saved annually with unified infrastructure management and realtime database health monitoring. **87%** reduction in time for detecting production outages



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# THANK YOU!

