



Combining the power of RPA and AI to keep customer experience unharmed during Network Outages

Credits

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Reactive response in notifying customers on network outages negatively impacts their experience

30% of calls in contact centers are related to **network outages**. Failing to notify and responding immediately during an outage might lead to increased call volumes in the contact center and prolonged wait-times degrade customer experience.



The insight describes how service providers in the connectedness industry can combine **RPA** and **AI** to build and implement a proactive **Two-way Conversational Framework** for their contact center to mitigate the above challenges and drastically improve NPS.



Two-way Conversational Framework for proactive network outage notification and resolution status

Build a **Two-way Conversational Framework**, a central intelligent platform to orchestrate bi-directional communication and provide seamless customer experience during common network outages.

Steps to implement a Two-way Conversational Framework



dentification of outage information

Build a unified outage monitoring dashboard to capture and categorize relevant outages

Build a standardized process to identify relevant outages in network monitoring systems based on technology (Copper, Fiber, or HFC). Integrate them with an outage monitoring dashboard for BOT to auto-extract outages and store them in a central database.

Step 2 👰 le Notification

Perform validation and schedule notification

Perform automated validation and intelligent scheduling to send notifications to the impacted customers proactively in a well-organized structure. It helps achieve the predefined SLA, KPI targets and improves customer experience.

Step 3

enot.com



Notify and engage with customers using a Conversational AI BOT

Send proactive notifications, and if the customer has additional queries, the bot can perform to and fro conversation using conversational AI

Provides seamless updates to the end customers on the service interruption, resolution status, and addresses customer queries if any.

Build a unified outage monitoring dashboard to capture and categorize relevant outages

The RPA BOT monitors and extracts details of the devices/services that have been interrupted from the various monitoring tools. It prevents the loss of information and stores it in a database to efficiently monitor, schedule, and notify the customer proactively.



Build an Outage Monitoring Dashboard

This solution pulls outage information capturing the node/device details from various monitoring systems.

Extract data from the Outage Monitoring Dashboard

RPA BOT fetches details of the impacted nodes from the Outage Monitoring Dashboard.

Update data to the outage database

RPA BOT updates the extracted details into the database where they can be validated, scheduled, monitored, and notified to the customers.

Perform automated validation and intelligent scheduling to send notifications to the impacted customers proactively

Outage Database

- Use RPA BOT to monitor and capture the Impacted Node ID/Device name in the outage database
- Validate the extracted information based on defined criteria using RPA BOT
- Leverage the extraction BOT to update the database and notify the Notification BOT
- Fetch the required details from the outage database using the Notification BOT to proceed further

Validating outages with the CRM Database

Leverage **RPA BOT** to fetch customer contact details from the CRM database based on details extracted from Monitoring tool

- Customer Name
- Customer Contact Number

Validating outages with Field Technicians

Validate the outages by sending notifications to the relevant stakeholder and getting a confirmation. For example, confirming an outage with a technician from a particular region.

RPA Scheduler

Organizes and assigns RPA BOTs to notify the impacted customers based on the below technologies:

- Technology Copper, Fiber, Cable
- Impact Time (2 iteration)
- Geographical location

Configure RPA BOT to trigger communications as below:

- **Outage Notification** Send the notification once the service interruption is identified
- **Update Notification** Send the notification based on the Estimated time to resolve (ETR) provided by the maintenance team
 - **Resolution Notification** Send the notification when the service is up

Recommendation

 If the impacted node is found in two consecutive runs, send the details of the node to the field technicians for confirmation. Else, treat the node as 'Not impacted'

LIVEPERSON

Conversatio

Manager

LIVEPERSON API - Technician Confirmation

LIVEPERSON API - Update Notification

LIVEPERSON API - Resolution Notification

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Conversation

Intelligence

Conversation

Builder

Integrate RPA BOT with a Conversational AI engine such as LivePerson to deliver notification to customers

Implement the RPA BOT in the auto-scheduling & planning phase to reduce human errors and improve efficiency in field service operations.

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Confirmation

received within

30 mints

Update

received on ETR

Outage resolve

by Tech team

Send proactive notifications and perform to-and-fro conversation using the Conversational AI BOT





Snapshot of a two-way conversation between the customer and the conversational AI BOT



Snapshot of a two-way conversation between the customer and the conversational AI BOT

Fly

+1 (876) 620-XXXX

Dear Customer, We are aware that your service has been disrupted due to network interference. Our team is investigating the issue to determine the restoration timelines.

Dear Customer. We are pleased to advise that your service has now been restored.

Thank you for being a loyal customer and we appreciate your continued support.



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Scenario 2: Customer posts a more complex query related to network issue which the Conversation AI Bot is unable to handle. It seamlessly transfers the query to a Live Agent without impacting customer chat experience.





A leading service provider in LatAm transformed network outage notification workflow by leveraging the Two-way Conversational Framework



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Business benefits achieved by a leading service provider in LatAm by implementing the Two-way Conversational Framework

Boost in agent

productivity





Network Outage calls







25% reduction in the operations cost



Satisfied customers



THANKS!



Get in touch

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