

Prodapt Chase Extraordinary

Building High-Speed Internet for Seamless Digital Experiences

Leverage Zero-touch Service Assurance Framework to proactively detect and auto resolve broadband connectivity issues

Credits

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67% of customers who contact their Digital Service Provider's customer service report broadband issue – E&Y

Reduction in broadband speed is a major Good customer service is a critical element to concern to customers value creation Customers are willing to pay Customers who contacted customer service 26% more for internet speed in return 32% reported inconsistent internet speed causing for good customer service work from home issues during the pandemic Broadband customers regularly confront issues and contact their service provider Good customer service is a key factor for customer loyalty Consumers consider good Customers who contacted customer service 67% 37% customer service as an important in the last 12 months reported connectivity factor for switching providers performance issue Source : E&Y Report Switching propensity rises dramatically if better quality and speed are guaranteed by other DSPs 360^o proactive service assurance for connectivity

43% Guaranteed internet speed improvement increases switching propensity

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services is key to value creation and customer loyalty.

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Move from manual and reactive to cloud-based proactive service assurance

Intelligent Insights Engine Diagnostic Engine Auto Resolution Engine Dashboard

Zero-touch service assurance framework enables continuous remote monitoring to proactively detect connectivity issues and provide automated resolution resulting in higher customer satisfaction



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Transform overwhelming customer data into actionable insights with intelligent insights engine Intelligent Insights Engine Auto Resolution Engine Dashboard

Smart monitoring of speed

- Monitor customer's current speed data on an hourly basis.
- Use data science software platforms like Rapidminer, Alteryx, KNIME, which analyzes event patterns in real-time and compares those to expected behavior.
- · Set up thresholds, based on business needs which can be expanded-
 - Customers with less than 80% of their current vs. billed speed
 - Rate of speed decline in the last 24 hrs. and 1 hr.
 - 20% for SMB
 - 40% for residential

Smart correlation

- Correlate the speed trend with historic customer data.
- Check if there are past tickets raised, customer complaints, or pending orders.
- Python-based correlation engine to create a pipeline for these data and decide target customers for performing the diagnostic procedure.

Filtered output

- Generates genuine, actionable targeted customer list.
- Goes as a feed into the diagnostic engine.

Implementation approach in a leading DSP in North America helped **customers improve service quality by** 60-70%



Import data

Retrieve customer's details like current speed, upload speed, download speed, and the trouble ticket.

Smart monitoring for exploratory data analysis

 Perform statistical analysis and correlation between data sets to arrive at the insights.

 Visualize the rate of speed decline in reference to the last 24 hrs.

Retune model based on insights derived

Speed threshold can be revisited

Benefits

Proactively address customers' performance issues

Service quality improved by 60-70%

Reduction of alerts/trouble tickets by 45%

Issue resolution time reduced from **72** hours to 1 hour

Recommendations Use data science software platforms like Rapidminer, Alteryx, and KNIME for accelerating and smart monitoring implementation Smart correlation avoids acting more than once on the same problematic customer

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Use diagnostic engine to classify connectivity issues so that right resolution can be actioned Intelligent Insights Engine Diagnostic Engine Auto Resolution Engine Dashboard



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Execute autonomous actions to quickly fix speed issues

Intelligent Insights Engine Diagnostic Engine

Auto Resolution Engine Dashboard

Auto resolution engine can resolve 45-50% f connectivity performance issues when implemented correctly





Leverage advanced analytics techniques on data to tap into rich insights through dashboards Intelligent Insights Engine Diagnostic Engine Auto Resolution Engine

Analytics and interactive visualization platform can help DSPs to query, visualize, alert, and understand

key metrics to **proactively resolve connectivity issues**

Scenario of a day in a leading DSP in North America Performance post remediation Target modems **Customers targeted each day** based on business needs Set up thresholds, which can be expanded-Less than 80% of current speed vs. billed speed Rate of speed decline is 20% (SMB) & 40% (residential) 3 27-07-2020 , HDM Reboot , 749 Remediation performed Speed change after 2. Of ~25% actionable customers, the 700 remediation performed following actions are performed 600 500 45% of customers observed For category 1: Modem reboot ٠ speed improvement after (~15% customers) 300 auto-resolution For category 2: Port bounce (~5% customers) For category 3: Issue cannot be resolved 100 • through automation. Service request/auto ticket is created

Use analytics and interactive visualization applications like Grafana, Dynatrace, AppDynamics, etc., which help visualize data, seamlessly define alerts, thresholds and generate meaningful insights.

Dashboard

Create custom dashboards with the operational and business insights that matter most.

Recommendations

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Monitor efficiency of the process

Provide real-time view of high impacted customers, remediation steps, performance, percentage improvement in speed, outages, current and historical issues

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Build useful insights for further business actions like upselling and cross-selling for marketing



Benefits achieved by a leading DSP in North America after implementing automated broadband speed assurance framework



No Speed

Limit

A leading DSP in North America faced major challenges in the service assurance process, which lead to poor customer experience (CX). Implementing the recommended approach as discussed in this insight resulted in the following benefits.





Solved 25%

of speed issue through auto resolution//W.prodapt.com





Issue resolution time reduced from 72 hours to 1 hour





THANKS!

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