



Customer Churn Analysis and Impact of Technology Migration (Copper to Fiber)

(Telecommunication Company focused on the U.S. Rural market)

Analyzed customer churn behavior by product and performed a further deep-dive to evaluate the impact of customers migrating from copper technology to fiber technology on churn. Additionally, analyzed the conversion journey of customers upgrading to fiber through customer care platform.



CUSTOMER CHURN AND CONVERSION RATES FOR TECHNOLOGY MIGRATION

ABOUT THE CLIENT

Client is a leading provider of advanced network communications and technology solutions focused on the U.S. rural market

SITUATION



- Client had limited visibility into customer churn behavior leading to uncertainty in evaluating the impact of key strategic initiative of migrating customers from copper technology to fiber technology
- There was an opportunity to provide enhanced visibility into the churn behavior of customers at a product level along with the key drivers of churn
- Partnered with client to identify the various drivers of churn to identify the business impact of the technology migration and evaluated the efficacy of customer care in enabling copper customers to upgrade customers to fiber technology

VALUE ADDITION



- Analyzed churn behavior of customers by segmenting churn by various drivers such as disconnect reasons (non-pay, competitive, financial etc.), product type (single product, multiple), tenure, etc.
- Evaluated the incremental retention rate of a fiber customer to quantity the business impact of technology migration and layered the key driving factors of better retention in fiber
- Identified the key driving factors that enhance conversion rates of customers through customer care
- Developed a Tableau-based dashboard to monitor and track the product level churn performance on a real-time basis

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IMPACT

- Identified potential opportunity to reduce churn rate by 13% by migrating customers from copper technology to fiber technology
- Estimated 5% potential revenue uplift due to enhanced customer retention rate in fiber compared to copper technology



METHODOLOGY/ APPROACH



Customer Churn Behavior by Product

- Analyzed the churn behavior of customers by products across tenure group, acquisition channel, technology type, disconnect reason, etc.
- Benchmarked the churn rate for products on copper technology against the fiber technology products to evaluate the impact of technology type on churn rate
- Analyzed various customer service metrics such as network downtime, repair tickets, large outages, etc., to evaluate their impact on product churn



Churn Monitoring & Trends

- Developed a Tableau-based dashboarding suite to monitor churn rate for products and product combinations on an ongoing basis
- Identified the factors driving high churn rate among copper customers compared to fiber customers and validated the trend across time periods
- Highlighted the opportunity to migrate customers currently on copper technology to fiber



Copper to Fiber Migration

- To track the ongoing migration efforts of customers along with analyzing conversion rates, developed a Tableau-based automated dashboard with customer migration journey
- Identified customers reaching out to customer care with eligibility to migrate to fiber to fast-track migration efforts
- Analyzed various metrics to enhance the efficiency of customer care to increase the fiber migrations



EXHIBIT 1 – PRODUCT PERFORMANCE DASHBOARD TO TRACK MONTHLY HEALTH

ILLUSTRATIVE

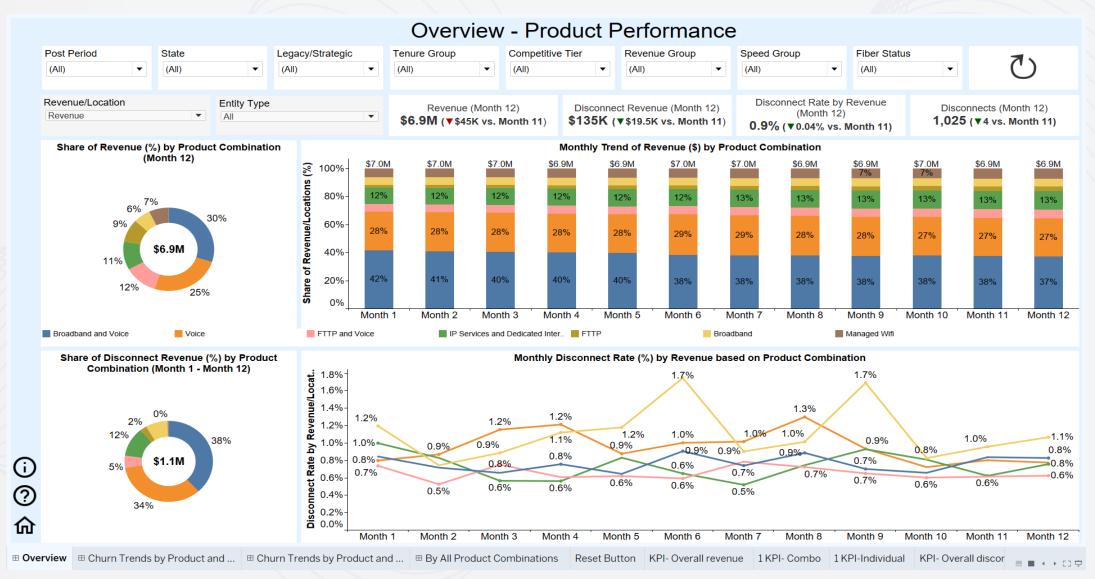
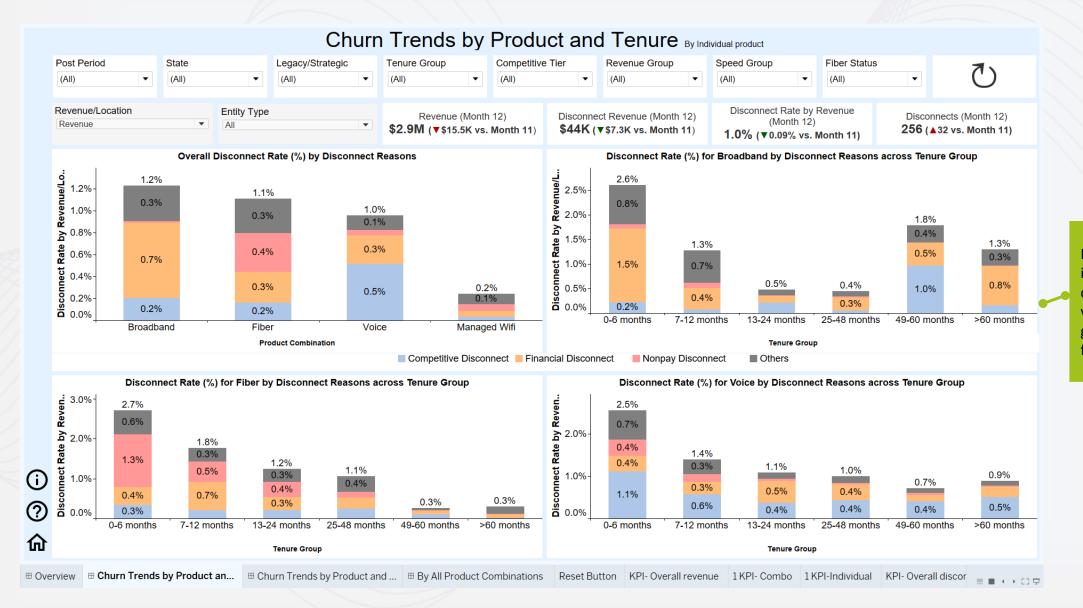




EXHIBIT 2 – CHURN TRENDS BY DISCONNECT REASON AND CUSTOMER TENURE

ILLUSTRATIVE



Provides visibility into churn for customers across various tenure groups and reasons for disconnects



EXHIBIT 3 – COPPER TO FIBER CUSTOMER MIGRATIONS

ILLUSTRATIVE

Provides flexibility to get granular insights on conversion rates based on other customer attributes

Provides
visibility into
the upgrade
requests and
conversion
rates for
copper to fiber
migrations

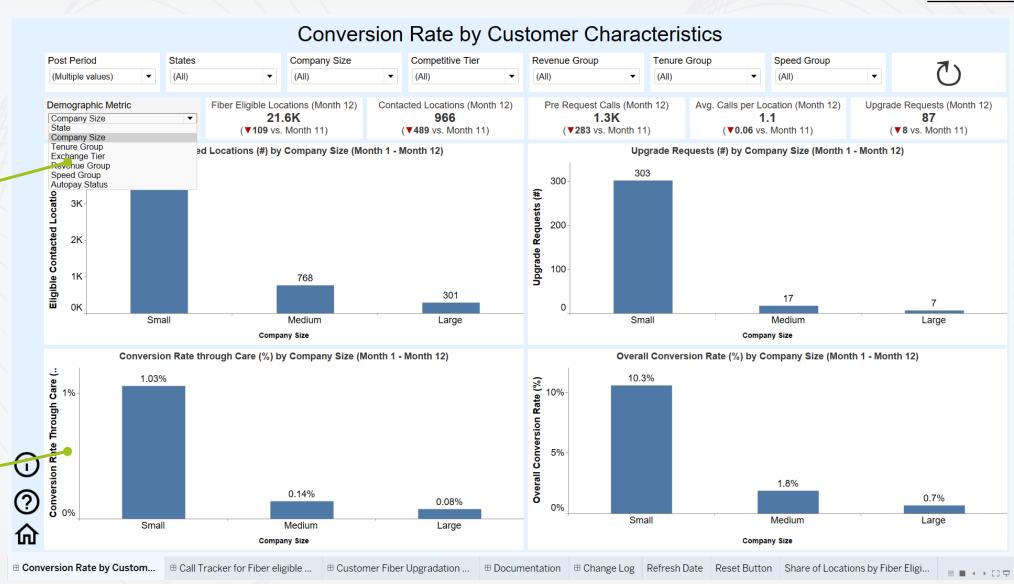
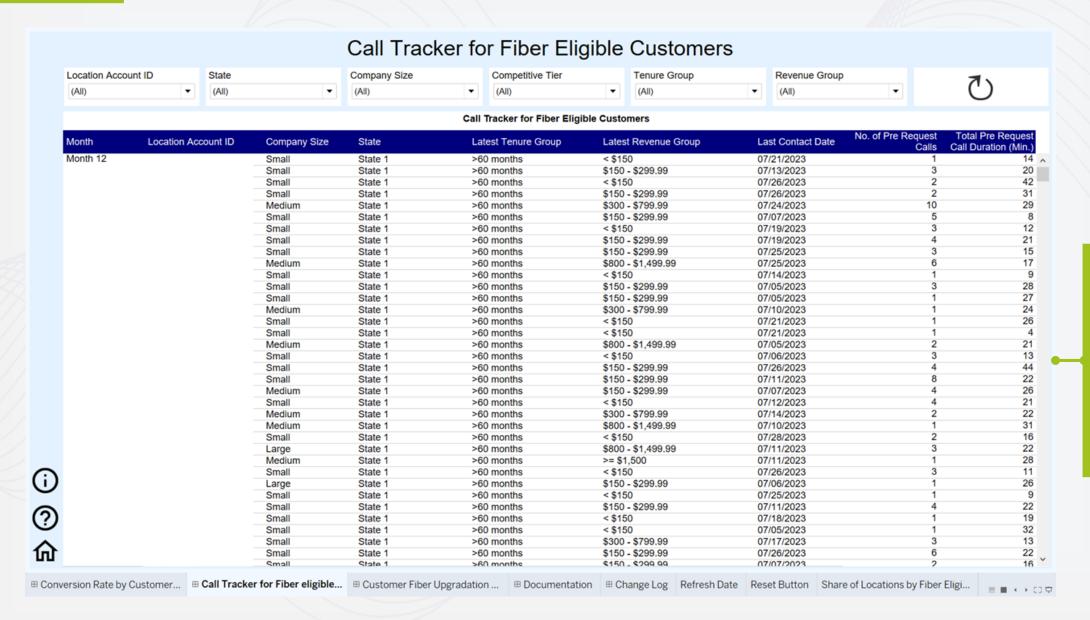




EXHIBIT 4 – PRODUCT CHURN BY TENURE (FOR CUSTOMERS WITH MULTIPLE PRODUCTS)



Provides
visibility into
calls to
customer care
for client to
pro-actively
reach out to
these
customers for
upgrades from
copper to fiber