



Improving the efficiency of your Field Service Workforce

Credits

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Today, most DSPs struggle with low First Time Fix Rate (FTFR) in their field service Delay in providing fixes can lead to significant customer churn and revenue loss affecting profit margin

Two major challenges in field service

Classifying productive and nonproductive dispatches!

35-40% of dispatches are found to be non-productive, costing millions of dollars

We covered this in our earlier insight that details on how DSPs can reduce 50-60% of non-productive dispatches by implementing an AI/ML-powered intelligence framework.







**Inefficient field technicians** lead to high MTTR (Mean Time to Resolve) and low FTFR (First Time Fix Rate).

70% of the field technicians are dispatched to the field without any insights about the right issue, location, nature of the problem & solution recommendations.

This results in longer time to resolve the issue, partial fixes, and repeat dispatches.



Field technician efficiency, if not improved has a cascading impact

47% of the dispatches require rework/repeat dispatch when inappropriate actions are taken by field technicians



Increase in the number of

High customer churn rate due to low FTFR (First Time Fix Rate)

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According to <u>Gartner's</u> report on **"Critical Capabilities for Field Service Management,"** 70% of customer interactions will involve an emerging technology such as *machine learning* applications, chatbots, or mobile messaging, by 2022.

In this insight, we will talk about how DSPs can implement AI/ML models to improve field technician's efficiency.

## Building an AI-powered field service framework to improve First Time Fix Rate (FTFR), field tech's efficiency, and customer delight



This insight details on how DSPs could build an AI-powered field service framework and provides best practices for effective implementation.

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## Key components of the AI-powered field service framework Achieve higher FTFR (First Time Fix Rate) and reduce MTTR (Mean Time to Resolve)



The following slides deep dive into each of these 3 components and talk about how they can be built to reduce MTTR and improve FTFR.

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## Fault location classifier – ML model predicts the fault location Helps in reducing 46% of the time taken to find the fault location & improves NPS by 20%-25%





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### Recommendation engine – ML model recommends the guided actions Improves field technicians' efficiency by 30-40%, saving OpEx for DSPs





# Sample use case – ML model predicts the cable failure based on the pattern and recommends fault location and guided actions







# Technician dashboard - Provides a one-stop view of all the productive dispatches to a technician in real-time with fault location and guided recommendations

#### Technician Dashboard





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Business benefits achieved by a leading Digital Service Provider (DSP) in North America implementing the AI-powered field service framework





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