



# Fix the broken dispatch process to improve filed service

Spare location intelligence can enable efficient dispatch operations and reduce the issue resolution time by 45%"

**Credits** 

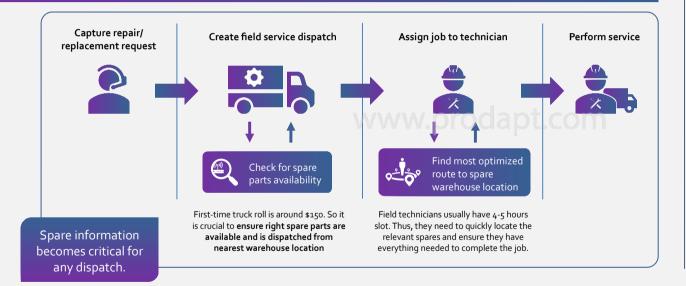
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# Handling Repair and Replacement Activities by DSPs is a Challenging Task

Increase in Mean Time To Repair(MTTR) Affects Customer Experience; Higher Repeat-Dispatch Rate Increases Cost

To perform repair/replacement activities, Digital Service Providers (DSPs) need to quickly find the relevant spare parts and schedule the dispatch. Taking too long to repair faulty hardware can significantly impact customer experience.



# Major Roadblocks In Accelerating Repair Activities

**Element of unpredictability** - Less visibility on what is available in stock vs onsite requirements.

Inefficient monitoring of spare parts movement & storage across location Lack of real-time reports on availablity of spare parts

# No optimized routes to reach warehouse location

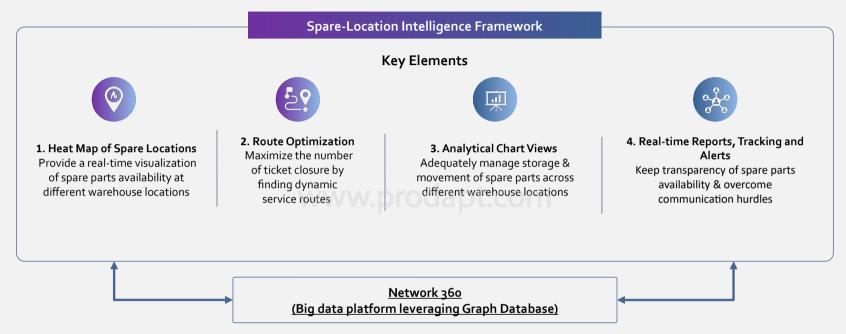
This gets further complicated when a technician needs to visit multiple locations to complete multiple work orders

# Communication hurdles and poor synchronisation

Repeated call backs, late arrival, lack of clear visibility and transparency brings down process efficiency and impacts customer satisfaction

Accelerating MTTR requires DSPs to adopt solutions, which can digitally transform the operations performed by Field Technicians and Design & Planning team.

# DSPs can Build Spare-Location Intelligence Framework to Fast Track Repair Activities



<sup>\*</sup> It is recommended to have a big data ecosystem, which integrates scattered set of data to solve the problem of information asymmetry in network management.

One of the most efficient way to achieve this is by <u>building a 360° real-time network visualization leveraging graph database.</u>

This insight details out each of the key elements of the framework and showcases how these elements digitally transform the existing operations

# Heat Map of Spare Locations – Provide Real-time Visualization of Spare Parts Availability at Different Warehouse Locations











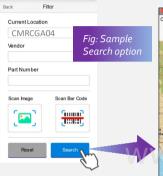
Heat Map brings more transparent visibility of spare parts; thereby avoiding need of any manual intervention.

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# Create quick search options

Technician can search the spare parts by entering any one of the search criteria





Integrate advance search functionalities into the mobile app to ease and fast track the process



# Image recognition Automatic identification

with real-time image capture to locate the faulty spare



# Bar code reader Quickly scan the bar

code present on back of the faulty hardware

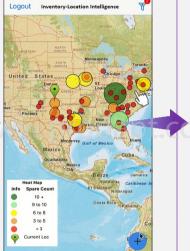


Fig: Sample Heat Map of particular spare part searched by Field Technician



# Get spare details in a single click:

Build capabilities to show all the spare details when the field technician selects a specific location.



Extract and display granular level of details as shown above

Helps field technicians to quickly get all details in a single click, which otherwise takes 1-2 hours just to find spare availability

# Route Optimization- Maximize the Number of Ticket Closure by Finding Dynamic Service Routes on a Continual Basis









Route optimization should direct field technicians along the best route to accomplish maximum tasks as per the allotted work orders.



# Get optimized routes to nearest 5 locations

Field technician can select one of the location based on:

- Miles Count
- Customer location
- Location of other scheduled work orders



within the app to reach to the spare location. Share live tracking of

spare locations

technician with warehouse manager and field supervisor.





# Reserve spare parts in advance

Very often the field agent doesn't get the required number of spares when he reaches location – spare part is reallocated or picked by some other agent

Built-in features such as "Advance Reservation", notifies the warehouse manager to block any movement of the spare parts



# Self-locate the spare parts in the warehouse

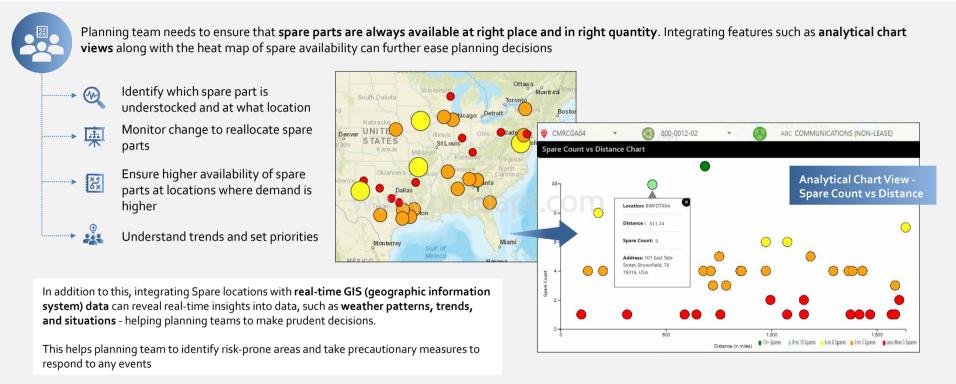
Having information such as shelf number, rack number and bin number, helps field technicians to self locate these spare parts when they have reached the warehouse

Having above mobile-based features for field technicians can lead to 45 - 50% increase in job completion rate

# Integrating Analytical Chart Views with Spare locations



Adequately manage storage & movement of spare parts across different warehouse locations



Increased analytical and decision-making capacity is vital for planners to ensure spare parts are always available in adequate quantity.

This also ensures better resource utilization leading to increased savings.

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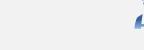
# Real-time Reports, Tracking and Alerts







Overcome communication hurdles by going digital-Live Tracking, Email Alerts and Notification



**Fmail Alerts** 

Live Tracking



# Field Manager

- Get technician location and their availability at any point of time to better prioritize work orders
- Make decision weather to bring additional resource to supplement workload
- Gain control of late arrival and rescheduling situations
- In case of any delays and postponement provide alerts to customer in advance.



# Field Technician

- Digitally be in **sync with the rest of team** to get real-time updates and **reduce call backs**
- Notify customers in real-time of arrival status



Notifications

Having these in-built functionalities can bring significant process improvements and increase customer satisfaction

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

The DSP was facing challenges in reducing overall MTTR, which led to poor customer satisfaction.

Owing to the opaque nature of operations, it was a hassle for both Field Technicians and Design & Planning team to fast track repair activities.

Implementing **Spare-Location Intelligence**, as discussed in this insight, helped the DSP to achieve major benefits

**Key Benefits** 



Reduced overall Mean Time To Repair by **45 - 50%** 



Increased analytical capabilities helped design & planning team to make a better decision



Reduced Field agent's time taken to locate spare parts by up to **70 - 75%** 



Improved customer experience and Net Promoter Score (NPS)

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# THANK

