

# Work Order Logistics Dispatch Communications for Equipment Supply Route Contract Quote Schedules

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## **How would defence operations change if your tactics were implemented?**

Connecting equipment sourcing lead time schedules & operational readiness results in administration of properly functioning supply route contracts-- critical components for ensuring operational security in the defence sector. Advances in dispatch logistics not only improve the quality of security provided, but also determine the success or failure of any supply route contract quote schedule requests for equipment parts deployment work orders.

New dispatch initiatives will reduce lead times by allowing for streamlined & simplified procurement of items on contracts-- 1) allows ability to get increased work order schedule info receipt from suppliers, 2) enables leverage of influence in interactions w/ suppliers & 3) empowers strategic targeting of key items to ensure their availability from suppliers.

## **Assess the current situation.**

For Fleet deployment resulting from upgrades & replacement of equipment components, we have defined a schedule design process & set of dispatch procedures that implement these tactics. The goal of route tracker application design is to break down sourcing ticket problems into sub-problems with schedules composed of procedural contract quote information. During the design process, decisions must be made as to which dispatch sequence to solve next & find solutions achieved by route tracking pattern matching dispatch records of past events stored in the application.

## **What technologies currently exist & what is the Gap?**

Current applications typically start by developing an equipment upgrade record system to store results. However, few systems are designed to implement requirements that would automate some aspects of the decision-making processes. The vast majority of existing applications still focus on work orders designed for individual installation requests for supply route service with little or no functionality to support long-term renewal quote schedules for upgrade/replace decisions made across groups of installations.

## **Why is your idea novel/better?**

The main functionality provided by Plug & Play Common Work Order generation in applications is the tracking of equipment part supply valuation information &

maintenance/upgrade quote scheduling using sourcing tickets. The application supports a range of Fleet upgrade specs trajectory sampling dispatch options & capability to link equipment upgrade/replace quote scheduling systems. Links of schedule increase/decrease work are blocked by injecting randomisation to process for work order choice to drop during congestion periods. Spatial traffic schedule domain transit by trajectory samples, i.e., paths taken by random subset of work orders means specific cache entries are detailed. Applications utilising Plug & Play Common Work Orders are not currently widely used at installations mainly due to the extensive nature of surge contingency scenario logistics start-ups by command & requirements for specialised dispatcher expertise to set up and customise the schedule applications at installations.

### **What problem are you solving?**

Systematic advances in the surge contingency scenario logistics have been detailed by dispatchers at installations utilising equipment Deployment route infrastructure spare part supply valuation & tracking systems. Plug & Play Common work order solutions are generally used to store & evaluate equipment upgrade specs, supporting operational & strategic decision-making processes for contract procurement quote sample populations to integrate & interpret of upgrade/repair quote schedule applications at installations w/ variable levels of maturity & similarity.

### **Describe your scientific approach.**

This product demonstration report is based on a tactical evaluation of expert & novice dispatchers in a controlled & competitive set-up to simulate sourcing ticket problem space. Solutions were generated by both groups providing real-time control for adjustments to force structure lists for surge contingency scenarios. Our intention is to present behavioural properties of dispatchers engaged in modifications of the route tracker application to obtain detailed pictures of dispatcher processes in issuing sourcing tickets. While performance was an important part of tactic evaluation, our emphasis in this product demonstration report is focused on examination of process behaviour during dispatch activity.

### **How does your proposal address the technological need?**

The Upgrade Quote schedule systems component provides access to equipment supply tracking & valuation map pattern details of the application designed to provide links between equipment identification tags & spatial features of the sourcing ticket fields. Dispatchers can navigate through sample trajectory populations using the application to create pattern maps based on selected valuation/tracking attributes such as equipment condition index ratings.

### **How is your proposal different than today's solutions?**

Although some existing equipment supply systems support interfacing with Upgrade/Repair Quote systems, very few applications have been designed to support integration w/ both material & fiscal components of service route architecture. Advanced quote scheduling decisions must be based on availability of accurate up-to-date fiscal requirements & requirements to link supply valuation & tracking identification tags to sourcing ticket fields. Embedding requirements in system design of the application is a critical step towards supporting integrated long-term support at installations.

### **What technological challenges will you face & how do you propose to overcome them?**

Selecting & implementing equipment supply valuation & tracking applications that best suit requirements of each installation is a challenging endeavour with important short & long term issues to be addressed. Short-term implications are mainly fiscal commitments, while long-term implications involve the requirements for upgrade/replace quote schedules, & return on temporal aspects of installation investments in common case route trajectory sample tracking.

### **Identify the time frame & resources needed to accomplish your proposal.**

Several directions for future investigation & inquiry can be identified. Of particular interest is the issue of tools to facilitate utilisation of Plug & Play Common Work Orders for long-term renewal logistics supporting supply route architecture. Most existing systems focus almost exclusively on supporting day-to-day activities & few existing systems even begin to offer robust, implemented support for long-term upgrade/repair shared tracking item deployment at multiple installations due to expanding requirements of surge contingency scenarios for mobile operations.

### **How does your proposal advance the state of the art in defence telecommunications technology & science?**

In conclusion, the results from this Fleet Upgrade/Replacement Specs report indicate that sourcing ticket documentation did support dispatchers in evaluation of supply route conference call connections. It was found to assist in the creation of real-time instinct representations of dispatchers for solving sourcing ticket problems, enhancing performance. Techniques were designed to be used in reminder sets within dispatcher

problem spaces to assist in operational utilisation & solution, with sourcing ticket notation providing for off-loading from the application. Dispatchers had conference call episodes transcribed & tactic evaluation has highlighted the potential for addressing niche markets in defence sectors

Route Tracker applications Supply commanders w/ key operational support for equipment Upgrade/Replacement Quote Operations. As a guide to the evaluation of processes using this approach, we have found the use of behavioural dispatcher tactic evaluation to be particularly useful. It allows command to extract, record & evaluate the full potential of the modernised processes embedded in the application. We have created the potential for revealing operational parts supply line details that might otherwise go unnoticed by decision-makers in charge of designing new applications to automate & speed-up Procurement.