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PTC 234 - PTC Connected Service Execution

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Connected Service Execution

Agenda

- What is Connected Service Execution?
- What opportunities does Connected Service Execution address?
- How does Connected Service Execution work?
 - Machine Initiated Service Requests
 - Remote Access
 - Connected Diagnostics
 - Connected Repair Procedures

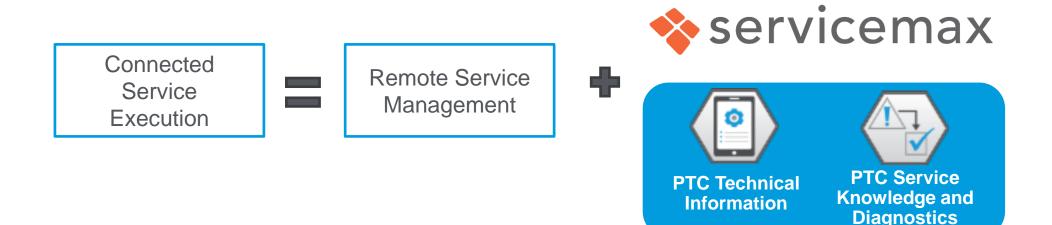


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What is Connected Service Execution?



- Service Execution is performed by a Field Service Management Solution
 - Service Orders are received, scheduled and dispatched to a technician
 - Field Service Technician arrives onsite to perform the required service and debriefs the work that was performed
- Connected Service Execution enhances Service Execution by connecting the products
 - Service Orders can be automatically created based on error or warning conditions
 - Diagnostics can be automatically run to provide the solution to the Service Execution system
 - Products can be remotely accessed to potentially correct the problem remotely
 - Repair procedures for the product are displayed in the proper context
 - Service can be predictively and proactively scheduled based on actual product usage





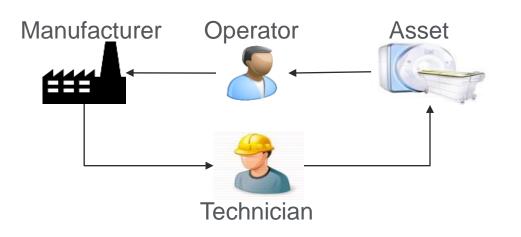
What Opportunities Does Connected Service Execution Address?



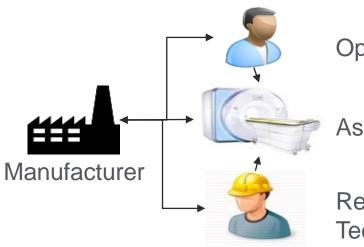
Addressing IoT Opportunities for 2 Key Service Models

Direct Service Model

Traditional Reactive Service Model



IoT Proactive Service Model



- Service process initiated based on asset issue occurring
- Customer is the 1st to know and reports issue
- Expensive "dispatch & diagnose" service response by Manufacture

- Service process initiated based on preemptive asset alert
- Economical "diagnose & limited dispatch" service response
- Customer is the last to know a potential issue occurred



Operator

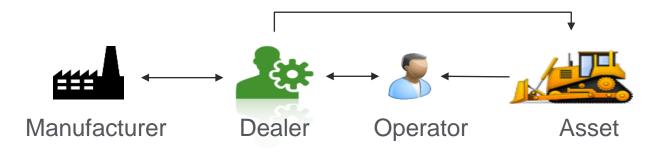
Asset

Remote & Onsite Technicians

Addressing IoT Opportunities for 2 Key Service Models

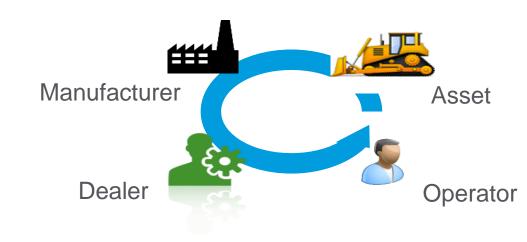
Dealer/Distributor Model

Traditional Customer Driven Service Model



- Service process initiated based on asset issue occurring
- Customer is the 1st to know and reports issue to Dealer or 3rd party service provider
 - Manufacturer has limited visibility to or control of where customer has asset serviced
- Dealer performs and records service in their business system

IoT Manufacturer Initiated Service



- Manufacturer remotely monitors assets
- Service process initiated based on preemptive asset alert
- Manufacturer directs service response through Operator's preferred Dealer, including DIY parts

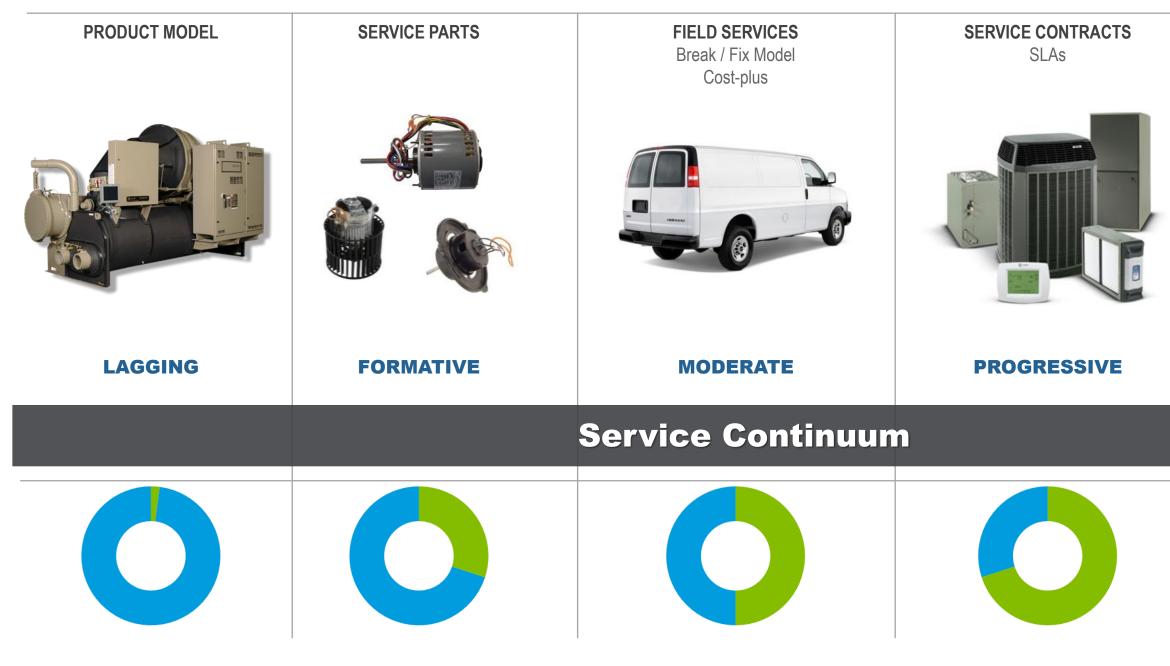
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How Does Connected Service Execution Work?



Service Transformation and Trends

Leading Manufacturers Understand Lifetime Service Value

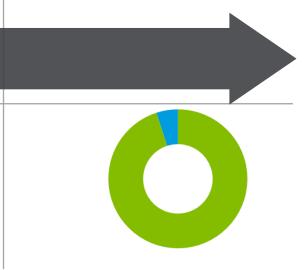


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OUTCOMES-BASED SERVICES MODEL



BEST-IN-CLASS



servicemax + D

Smart, Connected Service for Smart, Connected Products





Service Execution with



Gartner Leader

Complete Field Service Product Suite

> 100% Cloud, Built on Salesforce1 Platform

Field Ready Mobile Solutions

Extensive Partner Network

Our mission is to empower every field service technician in the world to deliver flawless field service. We enable organizations of all sizes and industries to unleash the untapped growth potential of service.



Flawless Field Service



PERFECT DELIVERY



MAXIMIZE GROWTH & REVENUE DELIGHT CUSTOMERS

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Our Vision **OPERATING SYSTEM OF THE NEW SERVICE** ECONOMY



Internet of Things

Outcome Business Model

- Supports the 'Disconnected Day'
- Designed for Field Service
- Consistent Business Process & Workflow
- Device Appropriate Functionality
- Configure, Not Code

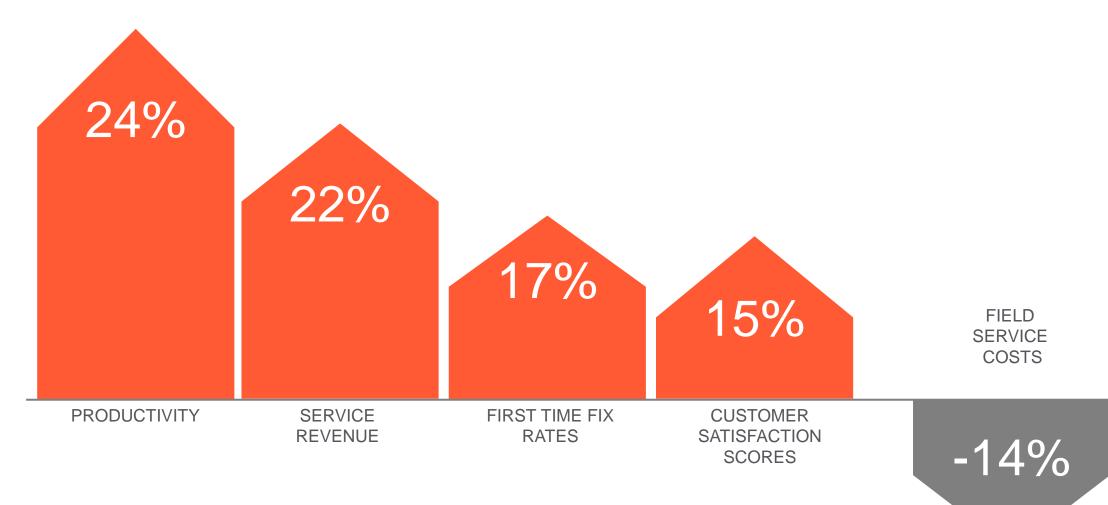
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The Impact of ServiceMax

Customer Survey Results

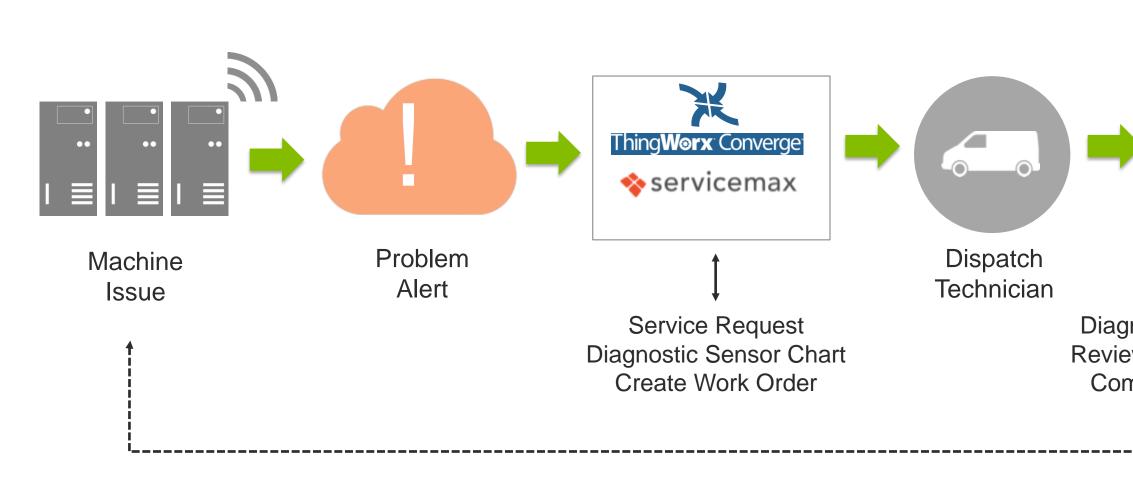


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AVERAGE TIME TO REPAIR



Smart Connected Service

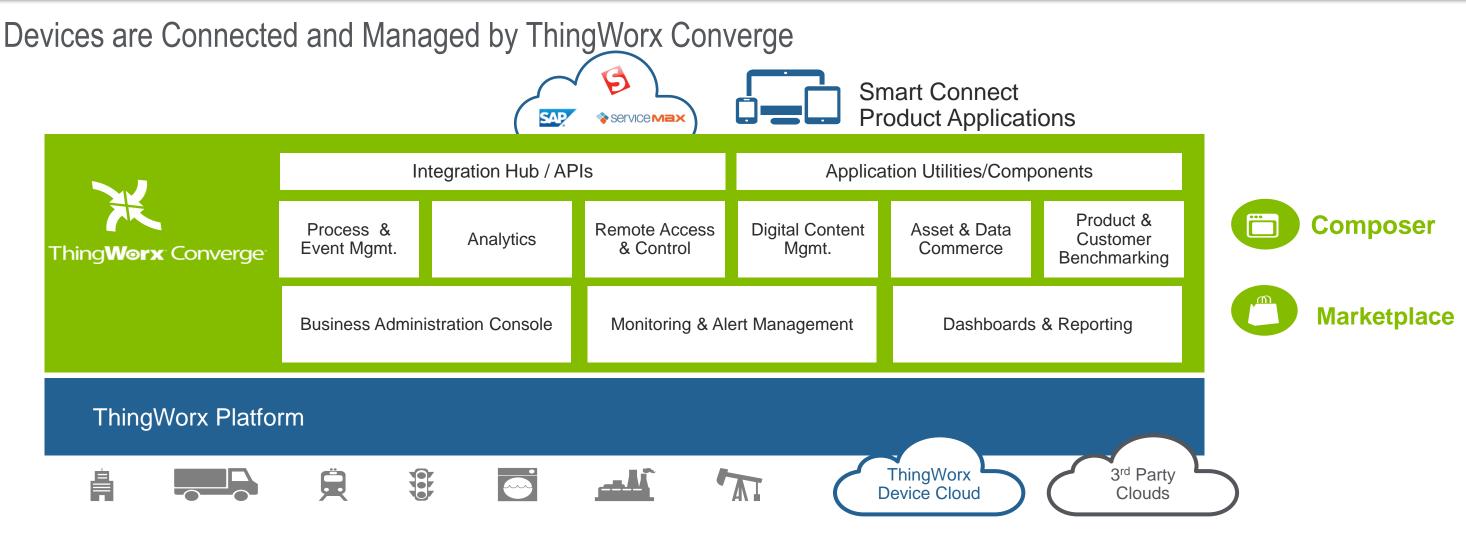


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Diagnostic Troubleshooting Review Related Docs/Videos Complete Repair/Sign-off

Connected Devices



- 1. Centralized Hub for Real Time Product Data
- 2. Best Practices-Based Data Model
- 3. Enhanced Out-of-the-Box Capabilities
- 4. A Synergistic Marketplace Of Applications And Integrations

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Machine Initiated Service Requests



- Devices are connected to the Device Cloud
- ThingWorx Converge monitors Connected Devices and produces alerts upon easily defined exception conditions
- These exceptions are interpreted and can result in the creation of a Service Request in ServiceMax, the Service Execution System.

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Remote Access

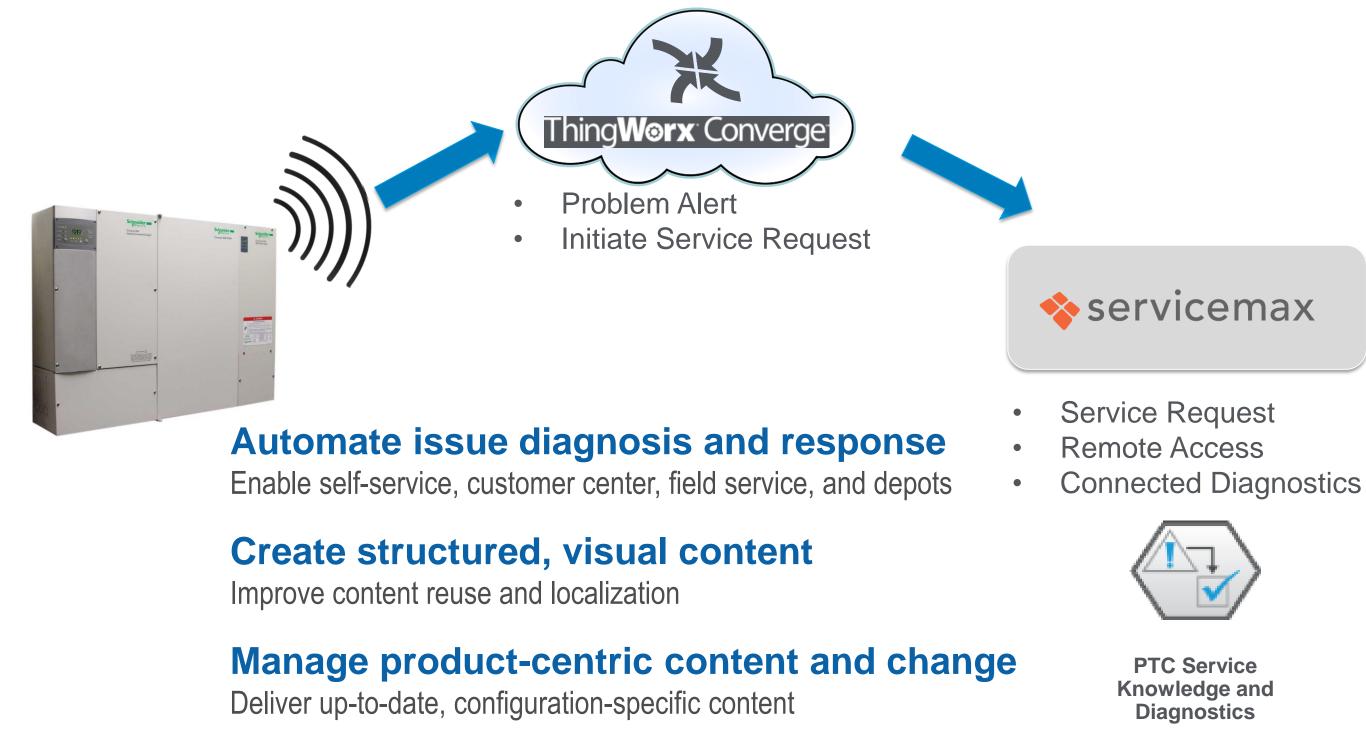


• Technicians (remote or field) can remotely access the connected devices and take actions such as file transfers and managing software upgrades

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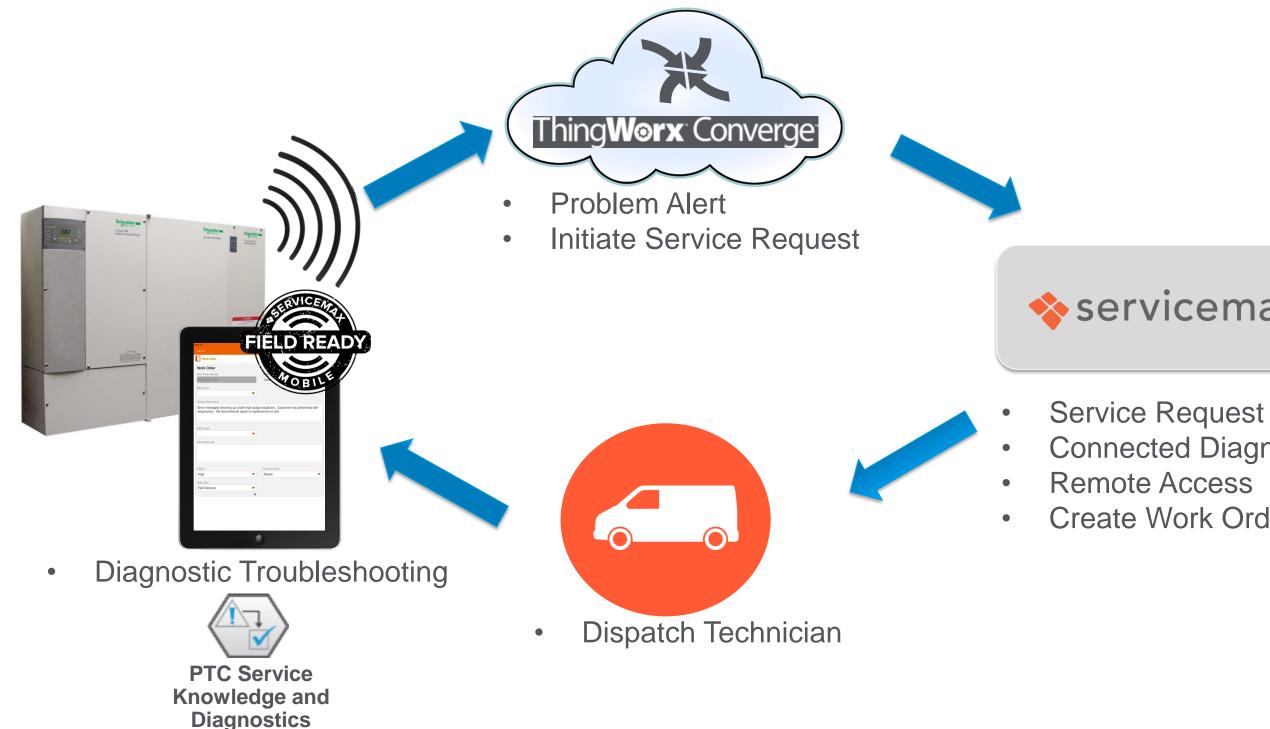
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Connected Diagnostics



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Connected Diagnostics for the Field Technician

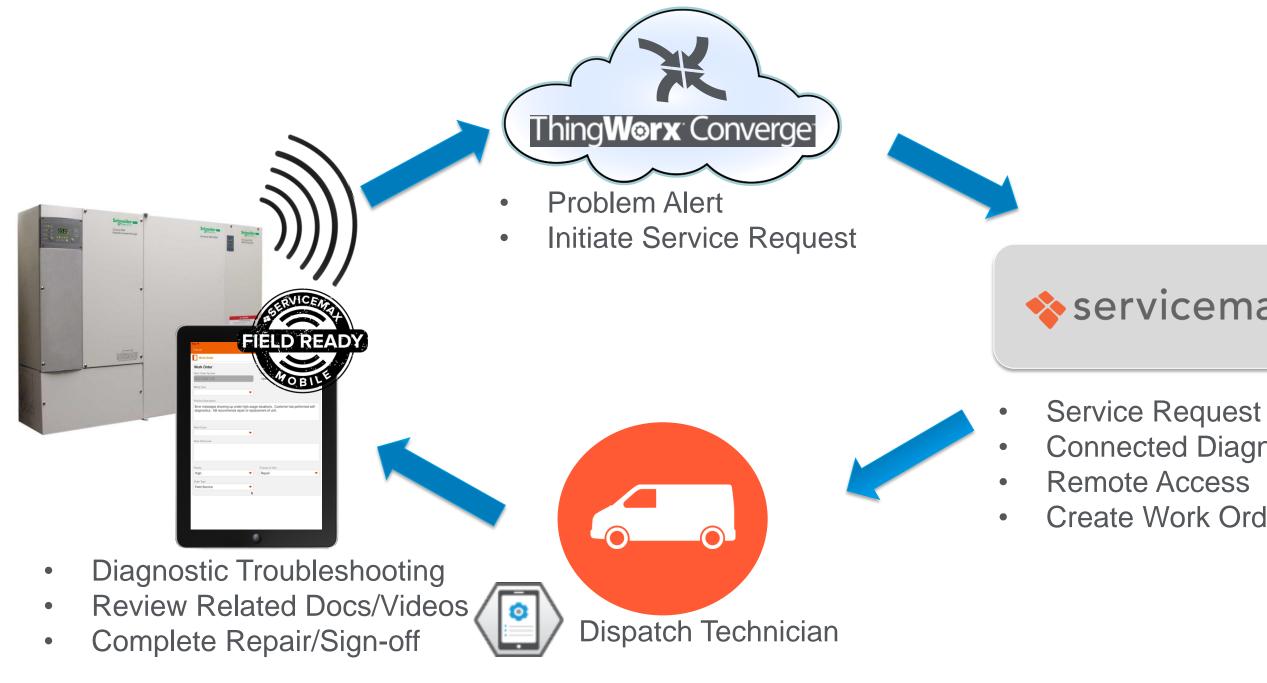


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Connected Diagnostics Create Work Order

Contextual Repair Procedures



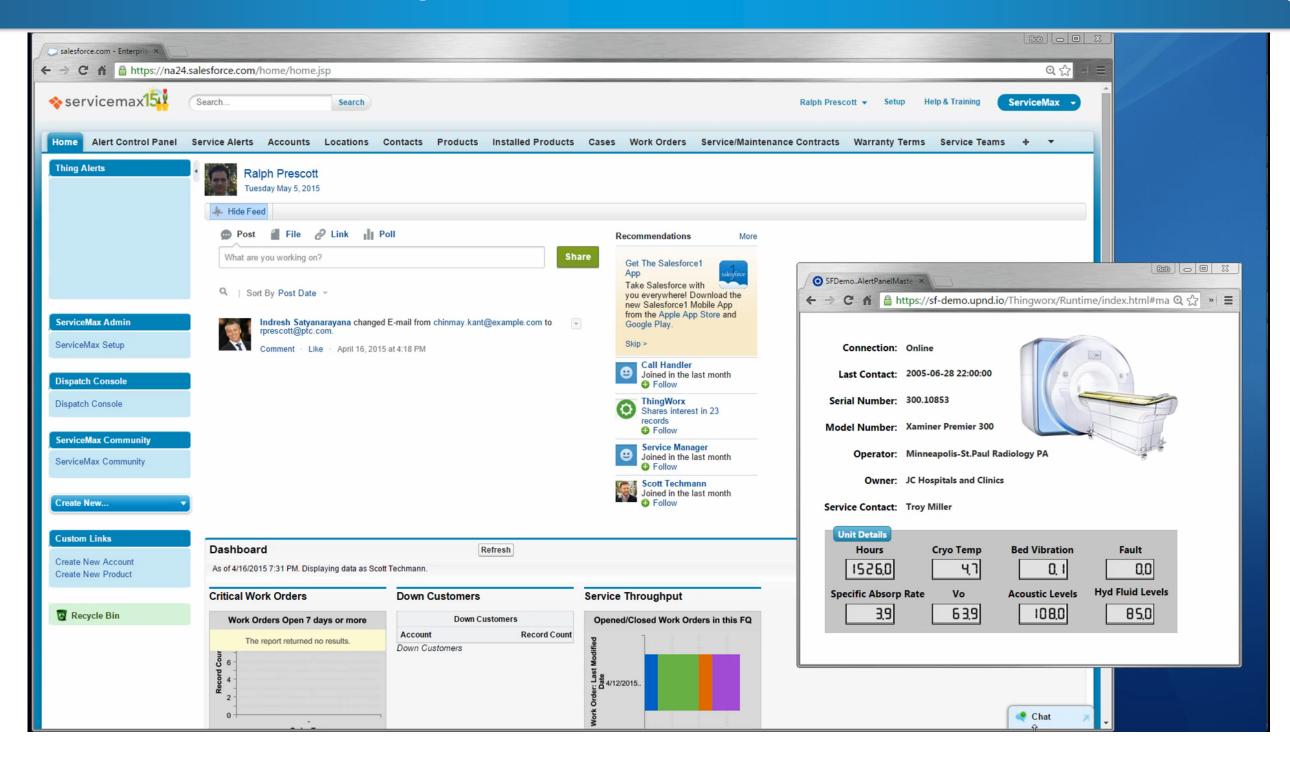
PTC Technical Information

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Connected Diagnostics Create Work Order

How Does This All Come Together?



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