

## PTC 124 - Internet of Things (IoT) Platform of the Future

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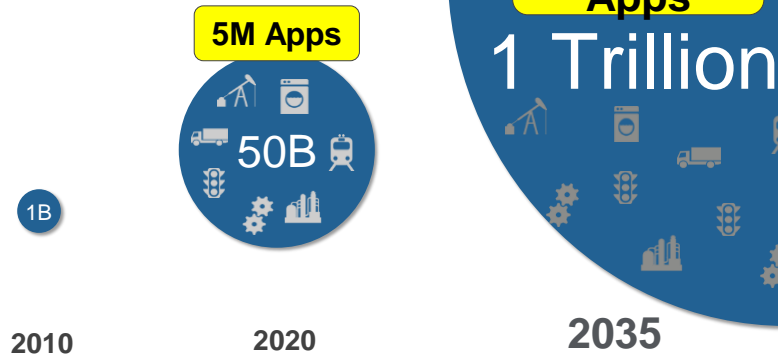
June 9, 2015



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# Unlocking the Value in the Internet of Things

- Connected Sensors, Devices, Machines
- Connected Applications ... to unlock the value of IoT

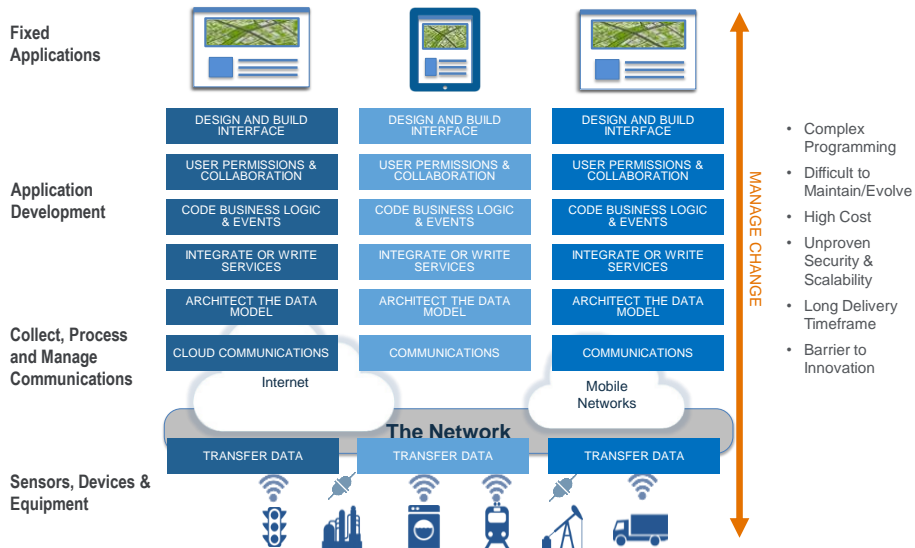


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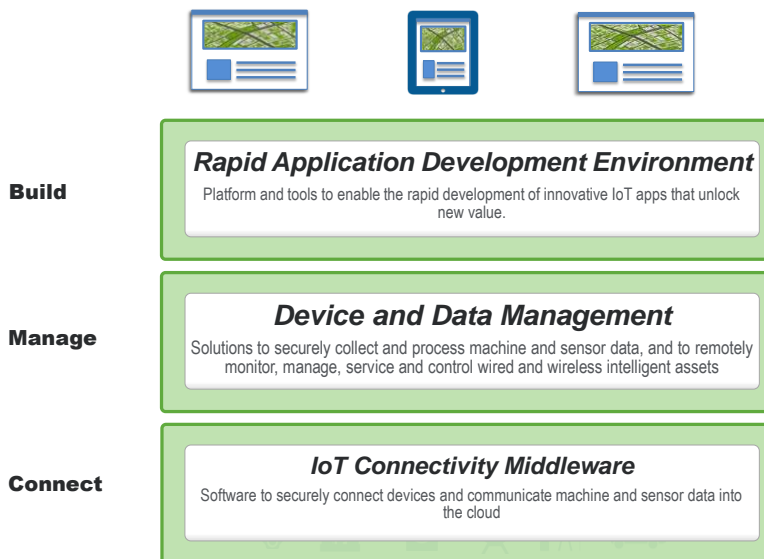
## Conventional Application Development

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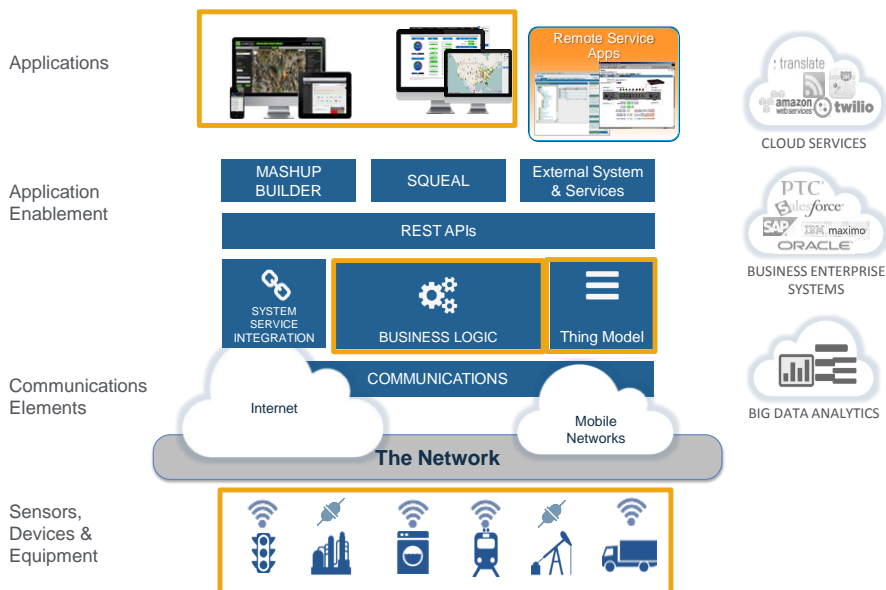
Not designed to work with the unique and evolving requirements of IoT apps



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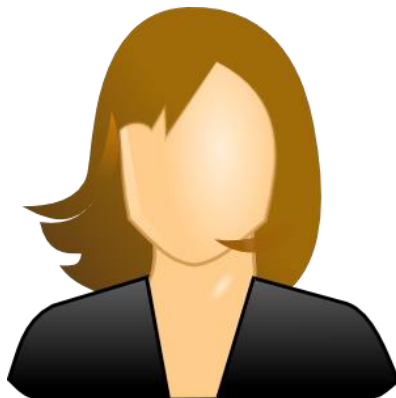
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Tweets per day: 500 million

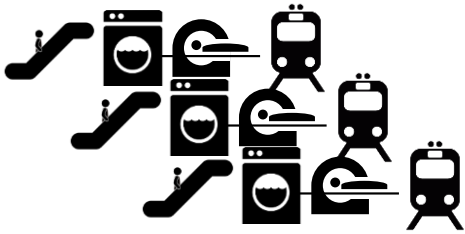


Google searches per day: 3.5 billion



IoT Device: updating status every 1 minute





One million machines

01001 10010    01001 10010  
01001 10010    01001 10010  
01001 10010    01001 10010

Ten pieces of data per minute

14.4 billion discrete pieces of data per day

## Key Thingworx 6.0 features

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- High Velocity & Volume Runtime Data Store
  - High performance & availability
  - Millions of devices & Hundreds of thousands transactions per second (per instance)
  - DataStax Enterprise powered by Apache Cassandra
- Productivity Enhancements
- Security Enhancements



DATASTAX



Universal  
Connectivity



IoT Application  
Enablement Platform



End-to-End Data  
Management



Device Management  
Applications

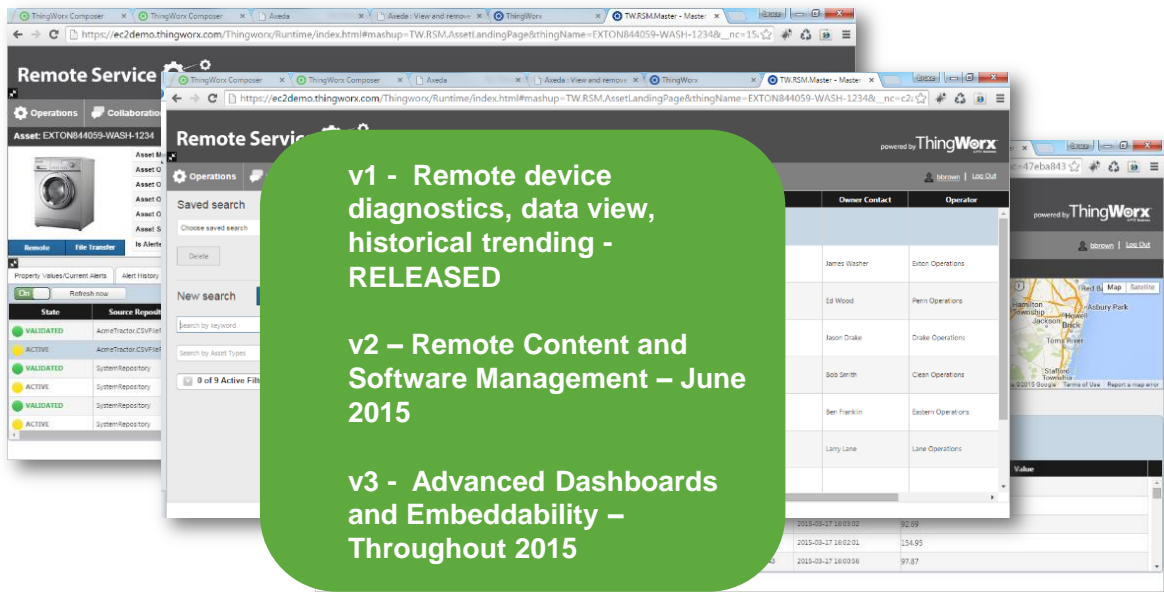


Cost-effective, reliable & secure implementation

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- **Remote Service Management**
- **Next-Gen Connectivity**
- **Distributed Data Storage**
- **Visual Builder / Mobile Framework + SDK**
- **Next-Gen Mashup Builder**
- **Globally Distributed Architecture**

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**v1 - Remote device diagnostics, data view, historical trending - RELEASED**

**v2 - Remote Content and Software Management - June 2015**

**v3 - Advanced Dashboards and Embeddability - Throughout 2015**

Flexibility, Security, and Power



## API/ protocol Enhancements

- Enhanced Security
- Flexible transport
- SDK Updates



## Next-Gen Agent

- Federated/Offline Mode
- Bi-Directional Edge/Platform Service Invocation
- Modular design
- Hardware Level Security Integration



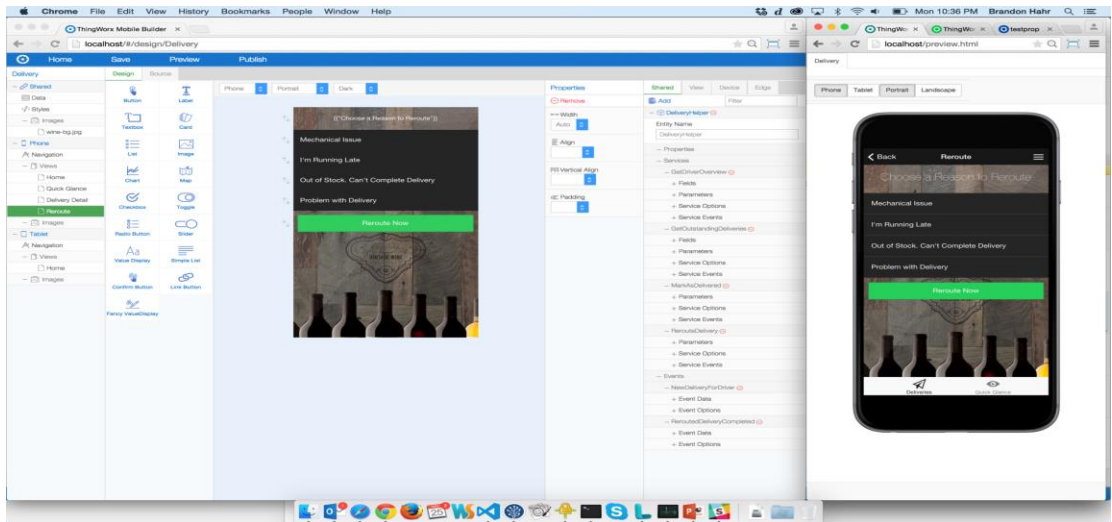
## Pluggable Cloud Communication

- Interop with Standards
- Legacy Value Capture
- Proprietary Device Support



# Mobile Application Builder

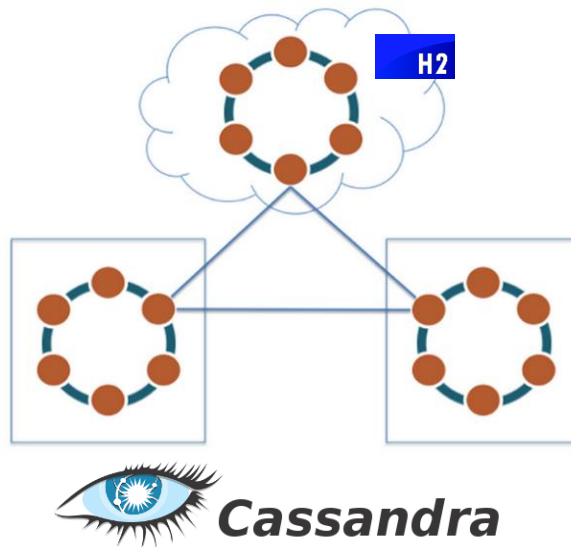
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# Distributed, Highly-Available Data Architecture

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Discussion Topics

What are your...

plans for mobility?

big data and asset  
scale needs?

opinions - on premise  
vs. cloud?

needs from the next  
generation platform?

thoughts on where we should be focusing?

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- Your feedback is valuable
- Don't miss out on the chance to provide your feedback
- Gain a chance to win an instant prize!
- Complete your session evaluation now

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