

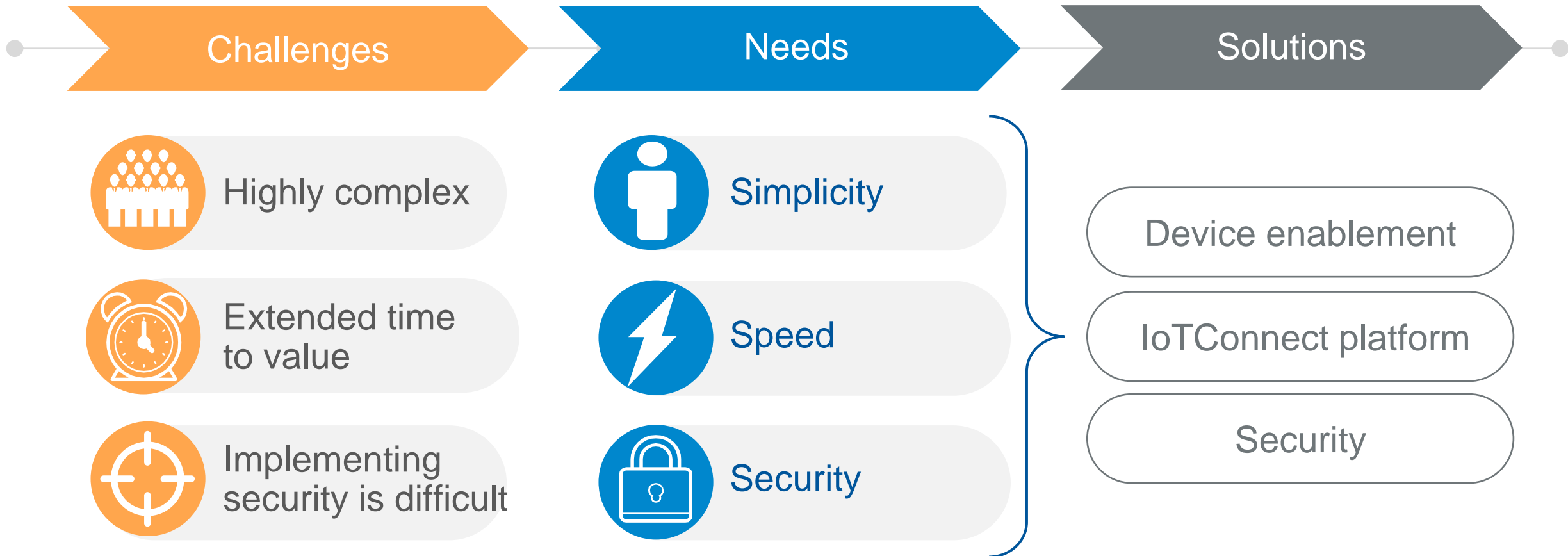
IoTConnect: An introduction

# High level overview

Mike Powell, Business Development, IoT

Mike Powell, 24 January 2023

# Customers face multiple challenges when they attempt an IoT project



/ **IOT**CONNECT<sup>®</sup>  
Platform

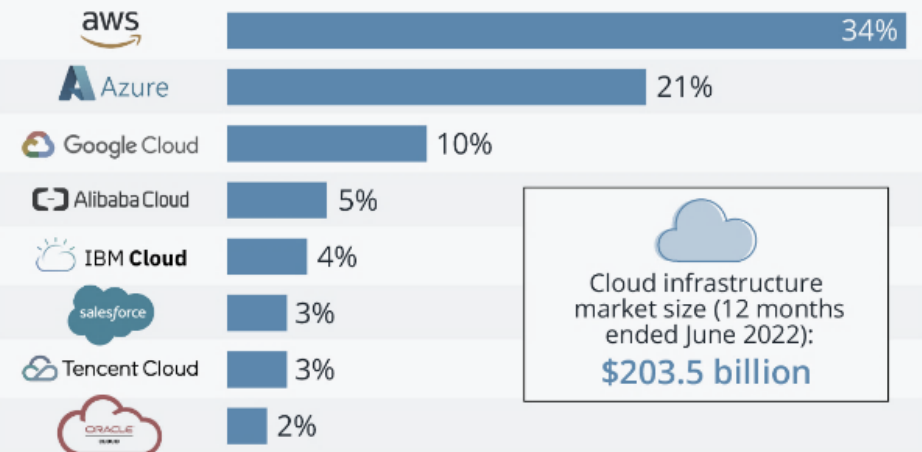
**The IoT Solution Accelerator  
for EBV customers**

# Avnet's dual-cloud platform strategy

- Avnet is now working with the two largest cloud platform providers on the market: AWS and Microsoft Azure.
  - Microsoft + AWS are 55% of \$200B+ cloud
- We offer software solutions in an area where customers greatly need to augment their internal expertise
  - Wireless
  - Security
  - Embedded
  - Cloud
- For our customers, Avnet is bridging the gap that exists between our suppliers devices, and the world's largest cloud partners, helping them achieve their business objectives by making the journey easier

## Amazon Leads \$200-Billion Cloud Market

Worldwide market share of leading cloud infrastructure service providers in Q2 2022\*



# Introducing IoTConnect

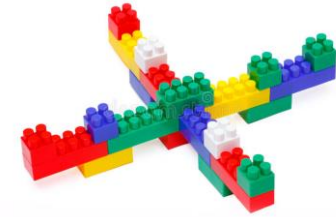
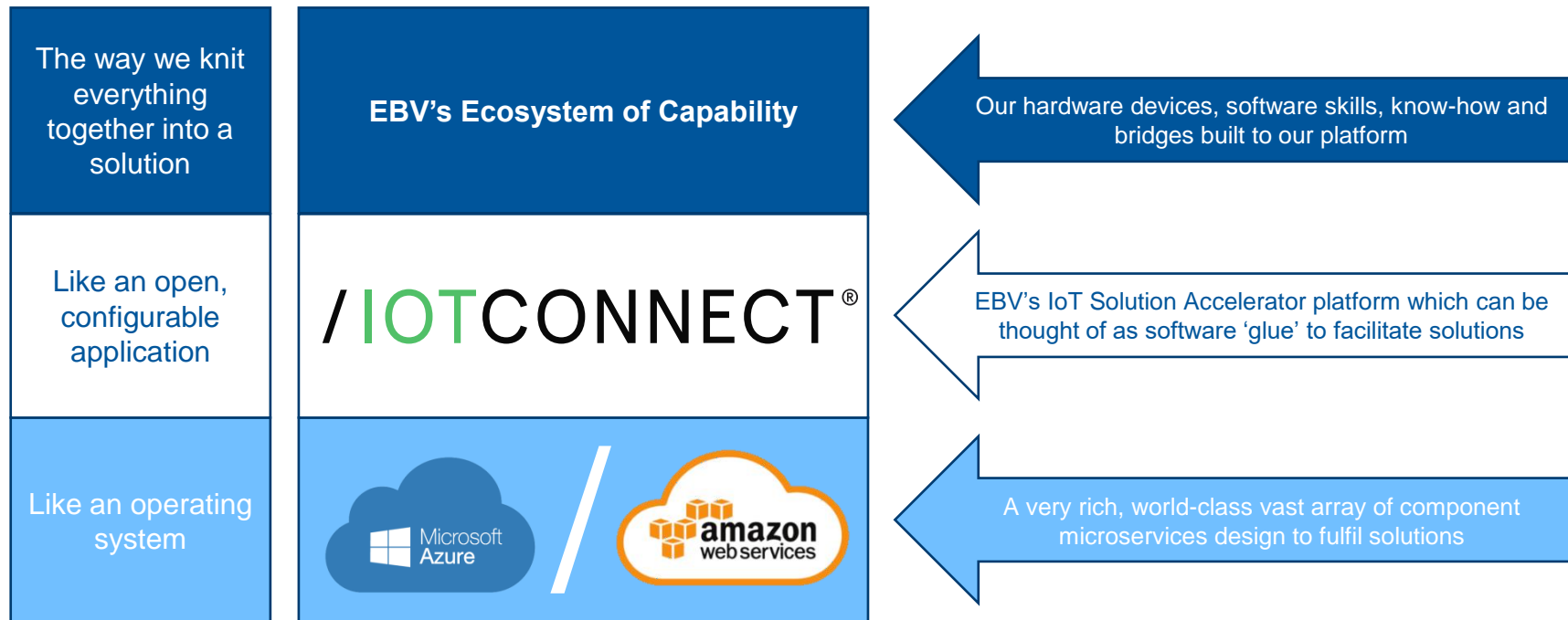
- IoTConnect is a powerful Solution Accelerator platform, owned and provided by EBV, exclusively for EBV customers
- Both Azure and AWS versions available to suit your preference
- Built for our customers in the markets EBV serves
- Backed by a team of 700 developers
- Comes with range of quick-start Smart use cases to kick projects off fast
- Allows for creation of SaaS applications and customization scope to suit each and every customer application
- Supported by EBV with a growing ecosystem of embedded edge and connectivity options

**In short, we have the scale, technology, resources and know-how to get your project delivered fast, covering the whole journey**



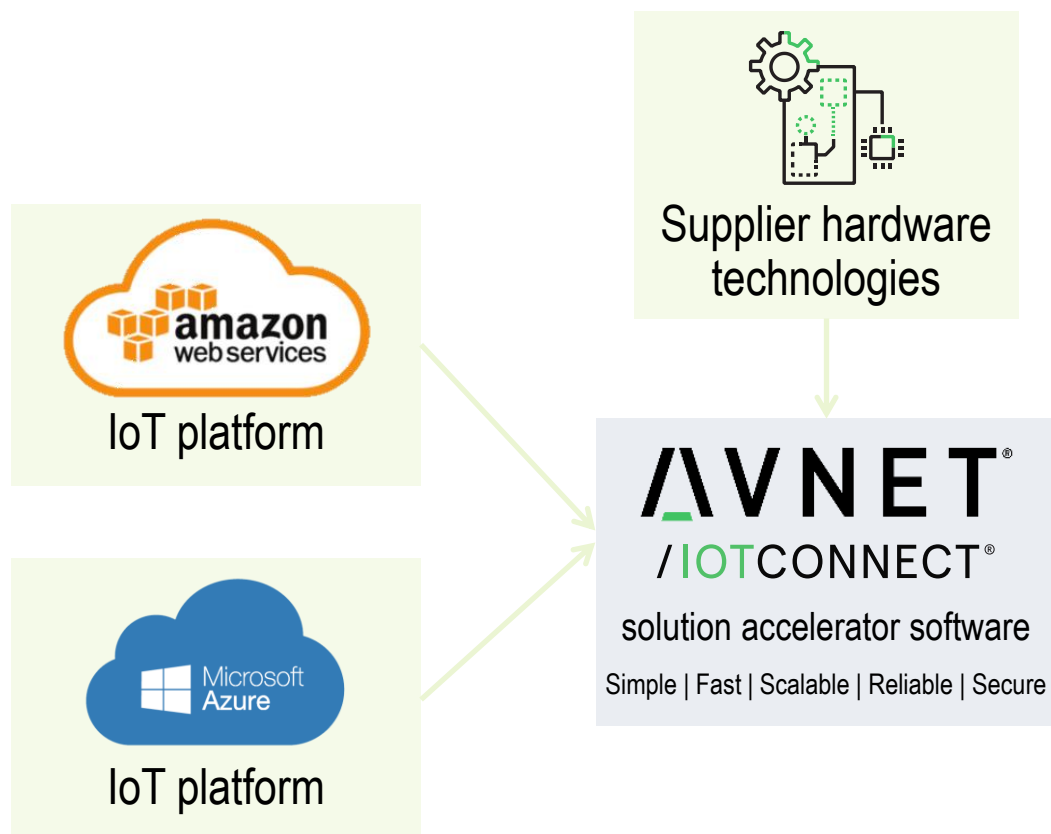


# Introducing IoTConnect



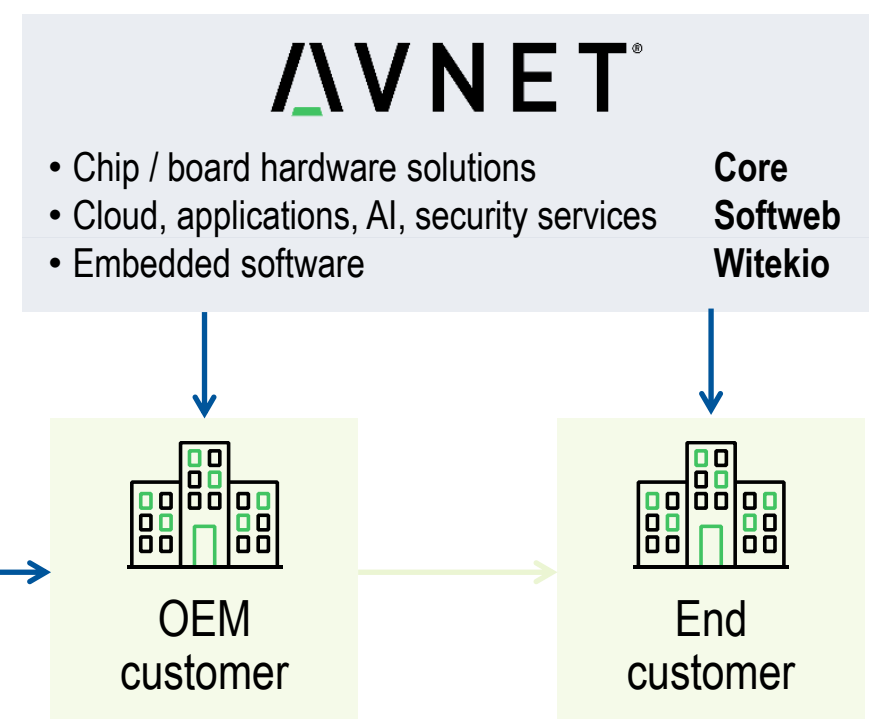
## Infrastructure / Reference design

*Hardware pre-integration*



## Customized solution

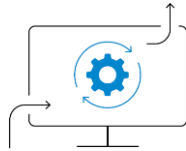
*Productization*



# IoTConnect Benefits

## Easy configuration and management

- Device registration without any hassle or programming knowledge
- Multi-tenant architecture and entity management
- Device management
- Asset management
- Software management
- Remote troubleshooting
- Download and install firmware updates



## Easy integration and connections

- Cross-device communication support
- Supports different industry-grade protocols
- Web services and APIs to simplify exchange of information
- Microservices-based architecture
- Service SDK



## Real-time alerts and notifications

- Create smart rules for autonomous actions
- Fully customizable workflows and notifications
- Detect anomalies and get alerts about potential problems



## Multi-layer security

- Enterprise-grade, end-to-end security
- Device identity management
- Access Security using Device Identity Management, OAuth 2.0
- Protocol transmission over TLS
- Multi-factor authentication for apps
- Role-based access control
- Over-the-air (OTA) firmware update



## Edge and predictive analytics

- Edge analytics to make quick decisions
- Real-time monitoring with live graphical charts
- Extensive real-time streaming analytics
- Machine learning and statistical algorithms
- Connectors for data visualization



# Fast IoT Deployment

## Ready PaaS Backbone and Ready Templates and Dashboards

- Device Provisioning
- Commissioning
- User Cloud App Interface
- Rules Engine and IFTT
- Notifications (SMS, Email)
- Basic Data Graphing
- Data Storage and Archiving
- Basic Administrative UI
- Firmware Updates
- Security



- Dashboard/ Apps
- New hardware/ Device/Application Specific Firmware
- Device Specific Rules
- Custom Data Graphing
- Any APIs/ Data Connectors

**Customization**



# Powerful solution dashboards on IoTConnect

Dashboard views can prioritize your preferred data – for individual asset or the full install base



## Dashboards provide full view into:

- Device utilization
- Real-time view on inventory status
- Alert notifications
- Measure KPIs
- Predictive analytics
- Internal data (ERP, CRM, etc.)
- External data (social media, weather, APIs, etc.)

# IoTConnect™

Device  
Management

Data  
Analytics

AI/ML

