

# Secure Life-cycle Diagnostic and Repair

## Overview

# Secure Life-cycle Diagnostic and Repair (proximity)

Development

Production

Operation

Service & Repair

## Proximity

Diagnostic Authoring &  
Publication

Cloud Based Diagnostic  
Simulation

Secure Proximity  
Diagnostic & Repair

Analyse Diagnostic  
& Security events

# Secure Life-cycle Diagnostic and Repair (proximity)

## Use case overview (Bosch Fuel Cell)

### Diagnostic Authoring

#### Content Development

Simultaneous development of Diagnostic

- On-board features (fault management...)
- off-board features (flash routines...)

#### Authoring Environment

- Data driven (ODX...)
- Graphical authoring tool
- Test and release to publication pipeline

#### Testing

- Verified against virtual ECU / vehicle models
- Simulation solution

### Secure Diagnostic and Repair

#### Cloud based

- Controlled access
- Latest content ready
- DTC driven diagnostic session
  - Integrated repair data
  - Integrated troubleshooting

- View of other diagnostic tools available
  - Datalogger
  - Flash programming

#### KMS integration

- Integration with KMS system for secure flashing programming

### Diagnostic Analysis

#### Insights

Integrated feedback data analytics.

- Vehicle Data
- Dealer Data
- Tool Data
- User Management

### Security Analysis

- Security events information
  - FROM diagnostic tool session file
  - TO CycurGuard solution
- To enable Expert analysis

### Diagnostic Simulation

#### Diagnostic simulation tool used to

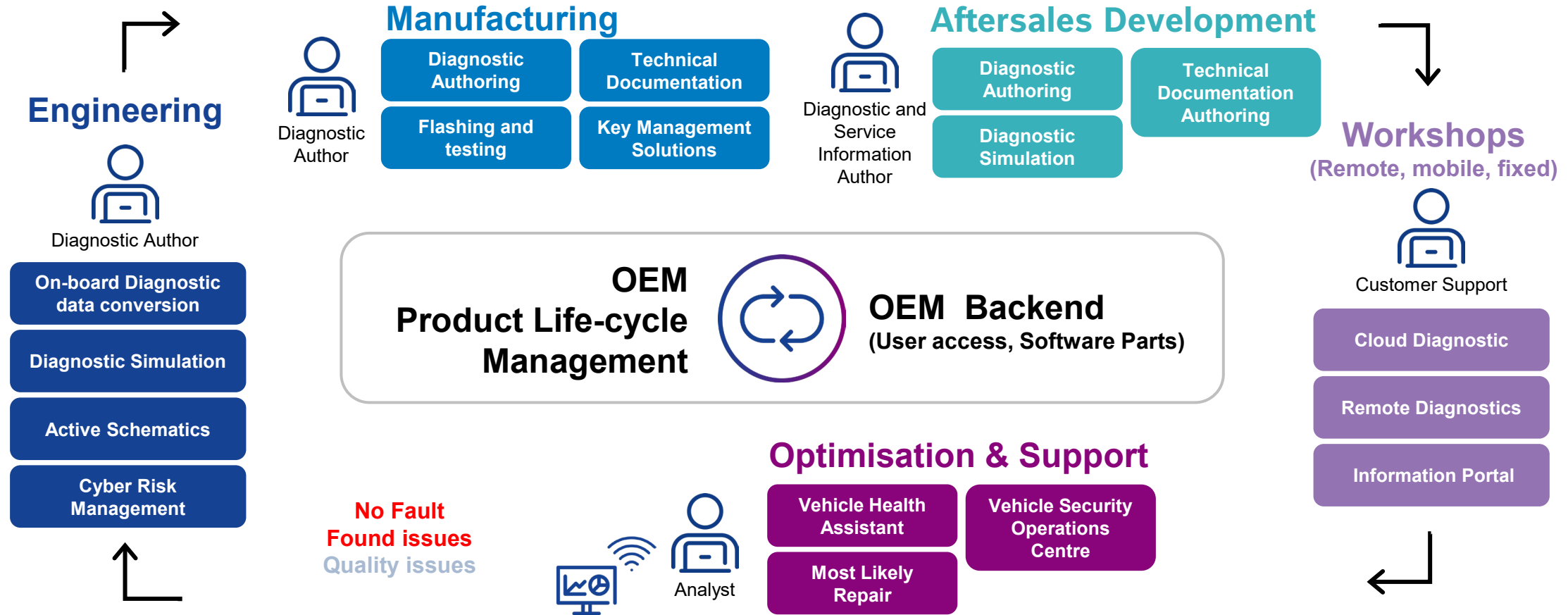
- Verify the diagnostic content
- Virtual fuel cell system (truck)
- Cloud based access

#### GOTO

- Cloud Based Diagnostic Simulation Demo

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## Generic Service Ecosystem



## Summary & Benefits

### What we showed

#### Uses Cases along the life-cycle of Security & Diagnostics

- Graphical Diagnostic Authoring environment
- Verify and the validate content against virtual test fleet
- Publication of iterative content updates
  - Integrated
    - Auto-rendered schematics
    - Repair procedures
- Feedback, anomaly detection and management of events
  - Diagnostic
  - Security

### Portfolio Overview

#### List of Products / Services from the product slide

- Diagnostic Authoring Tool
- Cloud Validation Environment
- Proximity Diagnostics with integrated repair information
  - KMS enabled diagnostic services
  - Active Schematics
  - Repair Manual
- Diagnostic data analytics and predictions
- Key management solutions Cyber Risk management



#### Your Benefits



Simultaneous content development reducing time-to-market



Integrated Diagnostic and Repair information for efficient intuitive technician support



Integrated authoring for diagnostic and repair solution across customer Life-cycle



Holistic vehicle protection



Iterative content release all users automatically up-to-date



Optimised Diagnostic & security event analysis



Thank you!