



ERICSSON



MULTI-VENDOR INTERWORKING

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WHY MULTI-VENDOR TESTING? CHALLENGES AT STANDARDIZATION



Open Standards are the foundation for interoperability
but ...

- › Open standards are driven by contributions of **many parties** (e.g. vendors, operators, etc.)
- › These parties have **different goals**
- › Challenge is to **integrate** various contributions into a **consistent** and **coherent** specification of a standard
- › This challenge can result in standards that have:
 - **incomplete** or **unclear** definition of interfaces
 - **poor** handling of options within standards
 - **inconsistent** handling of features/options within standards



**THERE IS NO IMPLICIT GUARANTEE THAT OPEN STANDARDS
WILL SECURE MULTIVENDOR INTERWORKING**

ERICSSON'S APPROACH TO SECURE INTERWORKING...



How Ericsson is securing interworking between Terminal and Network?

Standardization

- Open Standards
- Base for interworking

Roadmap Discussions

- Aligned Roadmaps
- Availability of systems and terminals to support new features

Development Testing (IODT)

- Usage of "real equipment"
- Win-win situation for Ericsson and terminal vendor

Multi-Vendor Terminal Verification (MVTV)

- Offered to Terminal Vendors and Operators
- Testing in test plant and live network



...FROM EARLY STANDARDIZATION TO END-USER DEPLOYMENT

ERICSSON DEVELOPMENT TESTING (IODT)



IoDT with multiple partners and locations

Partners from both Platform and Device domain

Technology Leadership Profile Partners

3GPP Validation, Product Interoperability

Devices for Trials and Early Launch

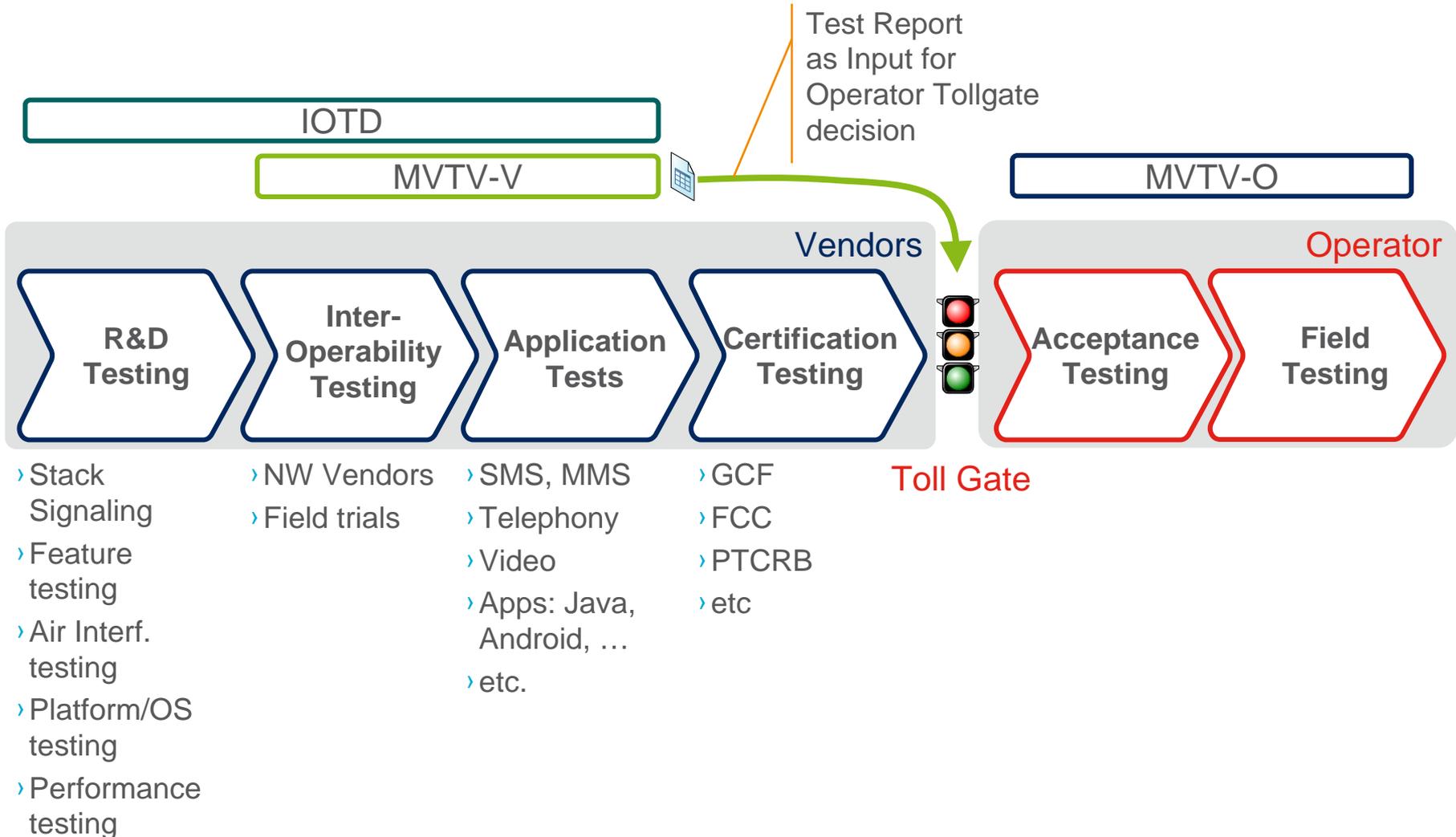
Facilitate Early Device Eco System
– In line with Infrastructure Launch

MVTV FOR DEVICE VENDORS



Goal	Verify interworking between terminal and network to secure quality before entering operator acceptance process
Test Scope	Defined by Ericsson and reviewed with operator and vendor
Software under test	<i>Ericsson:</i> Commercially available SW (GA) <i>Vendor:</i> Pre-Commercial SW (no limitation)
Test Location	Test Execution is done in Ericsson's test plant.
Involvement of Ericsson	Active involvement in triggering, evaluation and trouble shooting test cases
Involvement of Vendor	Active involvement in triggering, evaluation and trouble shooting test cases
Main Deliverables	Test Report

TERMINAL INTEROPERABILITY VERIFICATION PROCESS

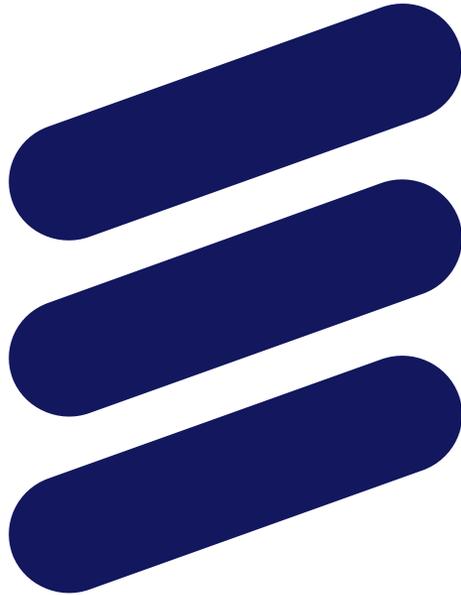


MULTI-VENDOR INTERWORKING SUMMARY



- › Effective and Efficient Multi-Vendor Testing Is Needed
- › Clear vendor – operator division of responsibility
- › Minimum replication of tests – maximum reuse
- › Right balance between risk limitation, costs and time-to-market





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