eMOBILITY HILS VAAS
Overview

Use case: 48V-12V DC-DC Converter ESU Validation for an Automotive Supplier

INPUTS FROM CUTOMER

- Requirements specification – SW, Diagnostics and Networks
- Communication files – DBC, A2L, etc.
- Device transmittal and I/O characteristics
- Flashing procedure and associated tools
- Technical safety requirements DUT

Savings due to e-mobility Framwork

- Hills set up and validation time for one SW drop:50% savings due to re-usable modules
- Percentage of reuse: Test cases (40%), Plant model (50%) and Test automation framwork 90%)

HILS REUSABLE ITEMS

- Test Automation framwork
- Generic test cases
- Hils HW
  - IO Cards
  - Power supply
  - FIU, Loads, etc
- Hills SW
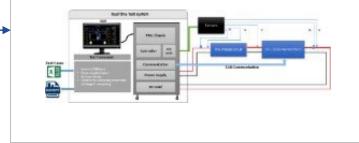- Sensing circuits

HILS MODIFICATION

- Communication/Rest bus simulation
- Hils Harness and IO model
- Tier one specific test cases

HILS REUSABLE ITEMS

- Final test cases, reports, bugs
- Updated plant models
- Log files

- Updated eMobility Hills bases on new requirements and ECU specifications from customer

Savings due to-Mobility Hills

- Hills HW cost : 74% Cost Savings due to usage cost alone (against new HILS set up at customer

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