Accelerating EV Adoption Leveraging the Economy of Scale

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Confidential



IoTecha Overview

IoTecha is accelerating the Electric Vehicle revolution by providing critical hardware and software components for the Smart Charging infrastructure and enabling the integration of tens of millions of Electric Vehicles with the Power Grid.



- IoTecha's core team co-invented HomePlug Powerline Communication (IEEE 1901) – used by ISO/IEC 15118 and SEP2.0
- IoTecha team designed the customizable STMicroelectronics' ST2100 chip that implements IEEE 1901
- IoTecha's products include:
 - Combined Charging System on Module (CCSoM)
 - HomePlug GP and ISO/IEC 15118 Protocol Analyzer (PilotShark)
 - IoTecha Intelligent Power Platform (I2P2) for charger management and grid integration





Accelerating the adoption leveraging the economy of scale

Key enablers:

- Multi-vendor support
- Multi-vendor interoperability
- Affordable solution cost



The interoperability and an open ecosystem - ISO/IEC 15118



- Three years of worldwide multi-vendor testing (2014 2017)
- The 6th International CCS & ISO/IEC 15118 Testing Symposium hosted by the CharIN member VEDECOM brought together more than 200 participants from 85 companies



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Examining the cost: A "Simple Charger"





Examining the cost: Adding a Smartphone Control





Examining the cost: Adding Cloud Connectivity (LAN)





Examining the cost: Adding Cloud Connectivity (Mobile)





Examining the cost: Adding EMS Connectivity





Examining the cost: Adding EV – EVSE Connectivity





Software Costs

	OS with IP Stack	OCPP Stack	ISO/IEC 15118 Stack	SEP 2.0 Stack
Licensable	✓	✓	✓	✓
Open Source	✓	√*	✓	



The Solution



Thank You!

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