

- Company History
 - Established in 2008, based in Chagrin Falls, Ohio
 - 2009 Developed one of industry's 1st Wi-Fi USNAP Modules
 - 2010 Introduced 1st USNAP Wi-Fi Thermostat to retail market
 - 2011 Demonstrated SEP 2.0 Interoperability
 - 2012 Deployed AEP GridSMART Demand Response and Energy Management
- Intwine Has Utility Experience
 - AEP - GridSMART Demand Response Program
 - PPL – Intwine Thermostats and IWi-Fi Module embedded in Aclara DRU
 - EPRI – OpenADR to Consumer Electronics Association's Modular Communication Interface for Appliances
- Intwine Involved in Standards
 - Wi-Fi Alliance – Member of the Smart Grid Task Group
 - OpenADR – Products support Demand Response through OpenADR Application Protocol
 - Modular Communication Interface – A connector standard supported by the Consumer Electronics Association for Appliances
- Intwine Has a Complete Solution for Energy Management

- GridSMART PSO Residential Project
 - 500 Homes
 - On-Premise Server: SEP 1.1 to SEP 2.0 ESI
 - Pricing, Metering, Messaging, and DR
 - Configurable Price Response Preferences
 - 5 Smart Plugs /house
 - 1-3 Thermostats/ house
 - 220V LCS for Water Heaters and Pool Pumps
 - Remote Intwinehome.com Accounts
- ERT Meter Portals
 - 10 beta small commercial and industrial sites
 - ERT to Cellular Gateways

- Utilization of Broadband for DR
 - Becoming more accepted
 - Several RFP's and RFI's asking for DR over Broadband
 - Separates DR from AMI project dependency
- Standards nearing completion
 - SEP 2.0 / CSEP certification
 - OpenADR 2.0

Utility /AMI
Head-end



intwine
Customer Presentation

intwine



CloudBUS

Homeowner's AP



On Premise
Server



Wi-Fi Tablet



Smart Load Center



Energy AP



AMI



EVSE



Wi Fi

Wi Fi

Wi Fi

Wi Fi

Wi Fi

Wi Fi

PCT/IHD



220V Load
Control



110V Load
Control



Key:

CloudBUS

SEP 2.0

SEP 1.x (Zigbee)

AMI

Utility
DRMS



intwine
Customer Presentation

intwine



CloudBUS

Homeowner's AP



On Premise
Server



ERT



Energy AP



Wi-Fi Tablet



Smart Load Center



EVSE



Wi-Fi

Wi-Fi

Wi-Fi

Wi-Fi

Wi-Fi

Wi-Fi

PCT/IHD



220V Load
Control



110V Load
Control



Key:

CloudBUS

OpenADR

ERT

- Direct engagements with energy providers
- Establishing partnerships with:
 - DR and customer engagement providers
 - Smart meter suppliers
 - Project management firms
 - Consultants
 - Installers
 - Broadband providers
 - Property Managers

Thank You