

Smart Appliances:

Application Layer Communication and Architectural Considerations

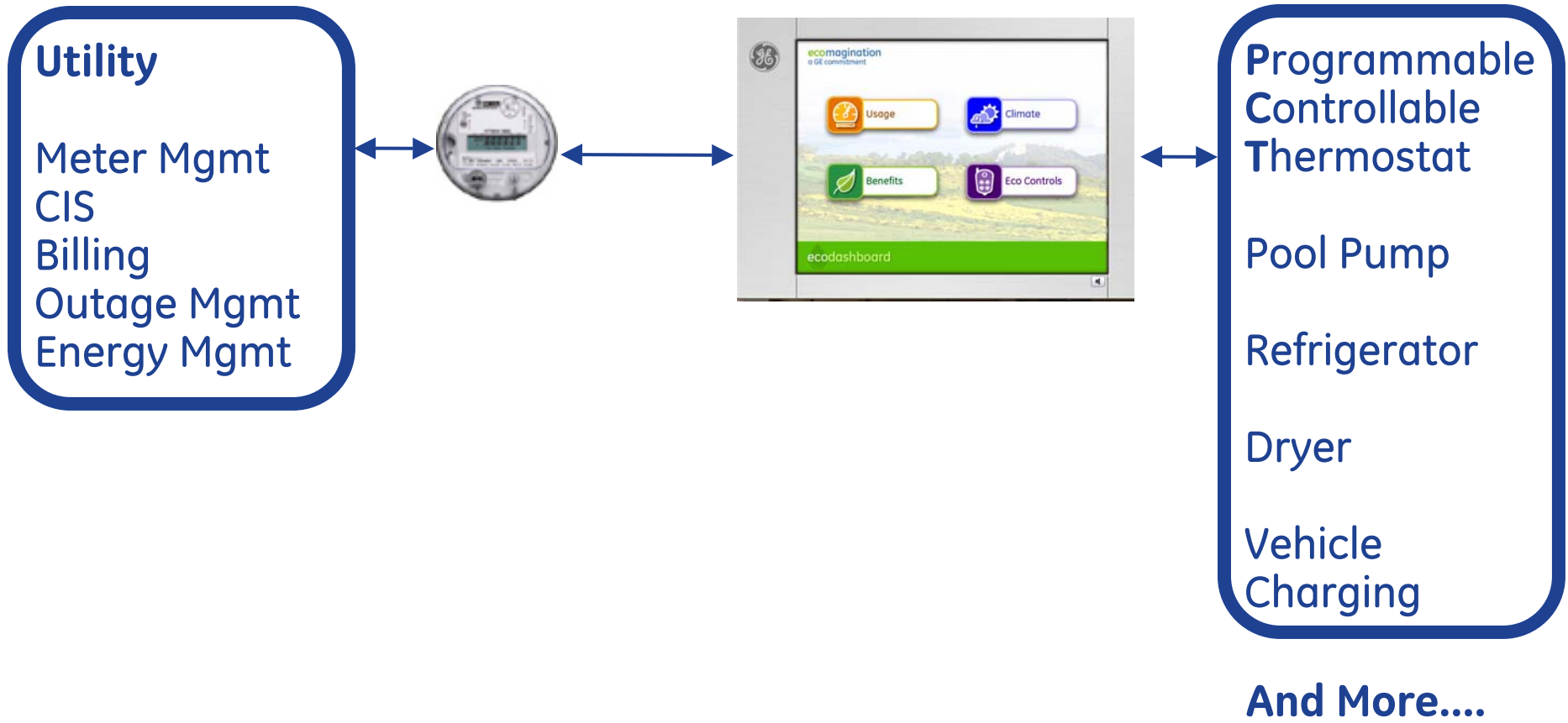
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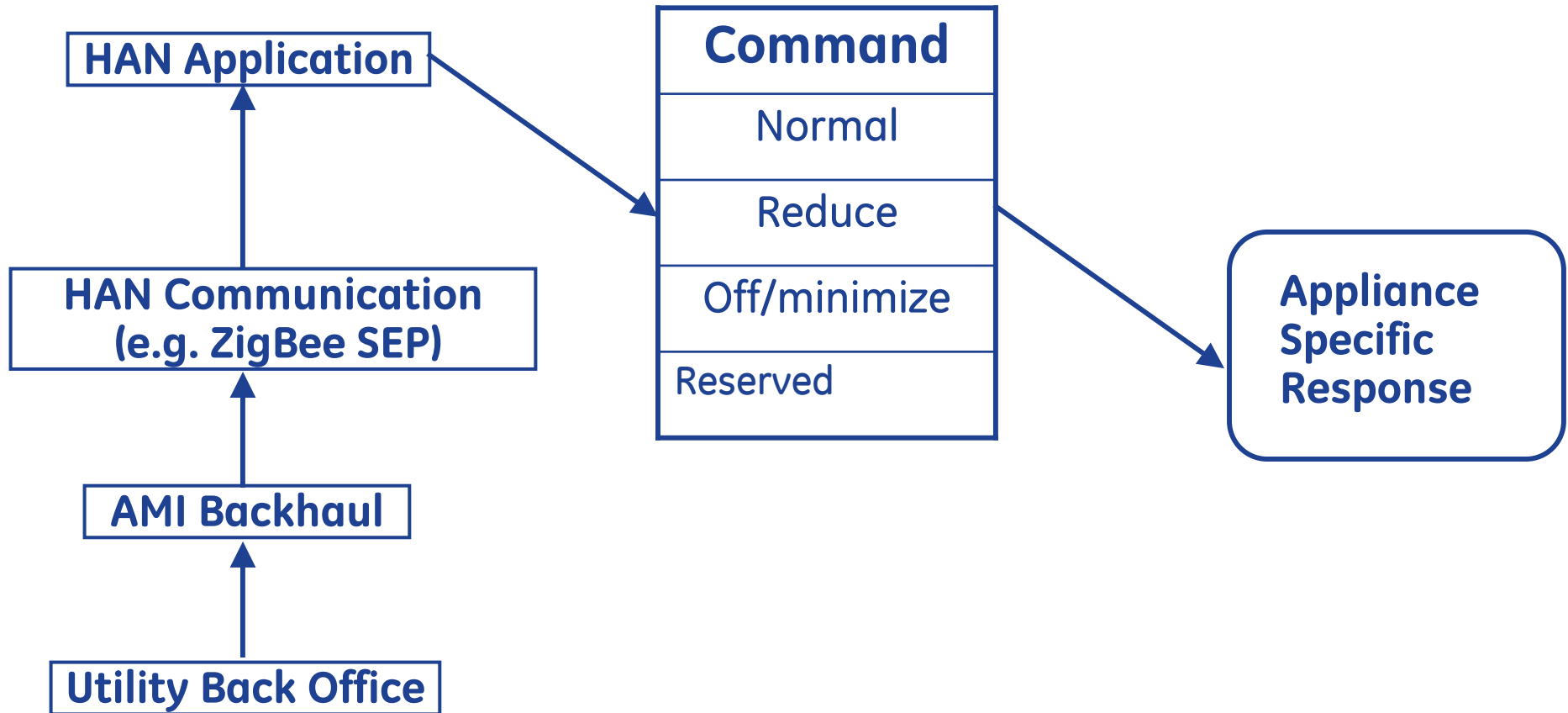


imagination at work

“Conventional” Smart Home Architecture



Smart Home Software Application Layer



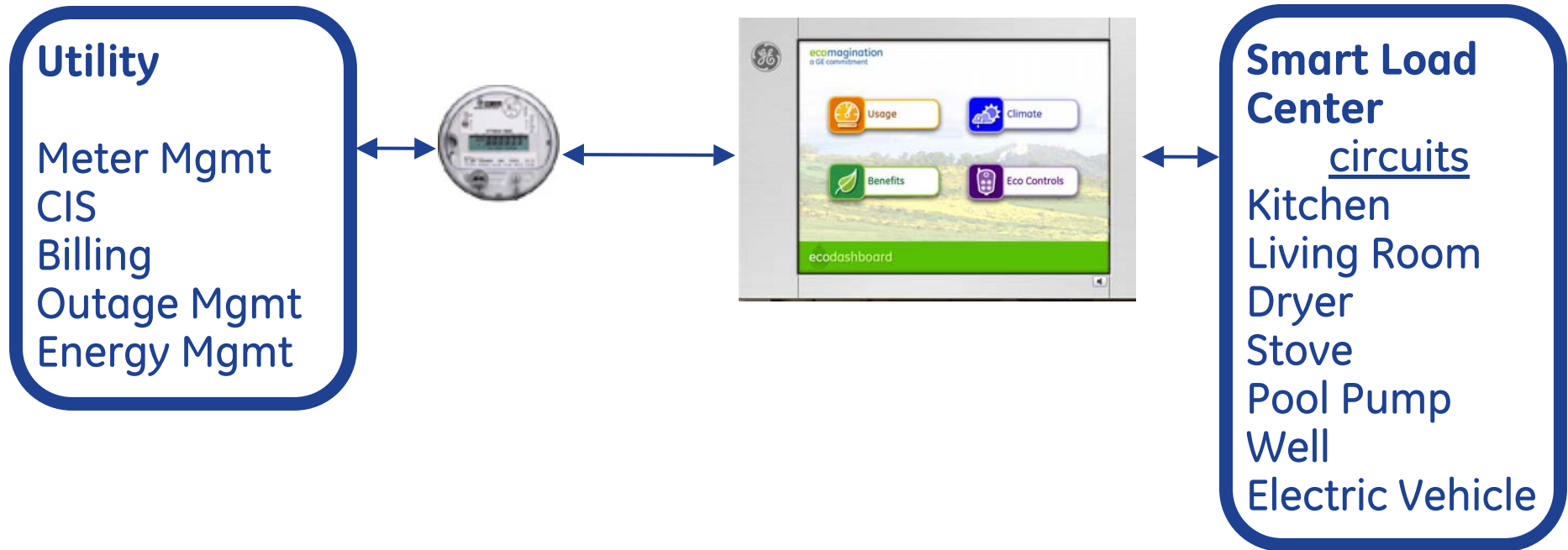
Alternative Architecture – Cognitive Meter



Loads are inferred through power signatures

Minimal Change to Home infrastructure
Control limited to disconnect or throttling at meter

Alternative Architecture – Smart Load Center



Discussion