Device Coordination Breakout Results from Right-side Corner

W3C Ubiq Web Workshop

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Keio University, Tokyo, JAPAN

Process

- Driving 3 questions posed on "agenda"
- Q1: What is needed for Scaleable Discovery ?
- Q2: What values over existing tech (e.g. UPNP)?
- Q3: What does it mean to expose device coordination to markups and web scripts?

Scalable Discovery

- Challenges: small devices lack "discovery"
- Possible Solutions: Standard "discovery" with scalability
  - Architecture of discovery on higher levels
    - Lower level, current WSDL and other tech work
  - Vocabulary (ontology, semantic web) to describe attributes, functions, …
  - Reliable Update Protocol (stable, robust, …)
- Deployment/Integration is the hard part, but we need standardized discovery before the hard core
- What is "discovery"?
  - Id, names, attributes or properties, ownership, functionality, time-scale

Values beyond existing tech?

- Standardized scalable discovery is a key for device coordination (existing techs lack it)
- Gives an absolute value to the device coordination

To markups and scripts?

- What are web scripts: ECMAScript and/or Java

- Current markups and scripts lack the necessary security protection

- Some possible current solutions: object, URIschemes

- Solutions depend on the device, surrounding environments… (to be further examined)

Other discussions

- What is "device coordination"?
- What is "device coordination standardization"?
- Current technology landscape in W3C
  - choreography
  - Other standardization body activites (OASIS)
- Other activities:
  - Vocabulary: Printing Industry does lot over years!
  - IPv6 may have some id solution
- Non-discovery side of device coordination
  - After discovery of resources and capabilities, we have to make something usable to carry out tasks, task-flow

Request for W3C Activities

- 30 minutes is too short to answer that!
  - You have to ask it explicitly for "a whole breakout"
- Definitely requests exist