

# Device Description: Work in Progress

Why we need your participation

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- **Mobile Device Diversity**

- Range of hardware capabilities
- Range of Web capabilities

- **Device Aware Sites and Applications**

- Sophisticated applications and sites need to be device aware
- Compelling UIs affected by
  - **screen size, aspect ratio, input capabilities, ...**
- Merchandising affected by
  - **types of audio and image formats supported, DRM ...**
- Reactivity affected by
  - **Processor, network bearer, script support, ...**
- Ability to use sophisticated features affected by
  - **Availability of location, presence etc. on the device**

- **Delivery Context**
  - Device properties, network properties, user preferences ....
- **W3C CC/PP [1]**
  - Framework
  - RDF
  - No normative vocabulary
- **OMA UAProf [2]**
  - CC/PP plus a specific vocabulary
  - For mobile devices
  - Lack of tools caused initial problems with validity
  - Increasingly, providing base information for devices
    - **Properties common to all instances of a type of device**
  - Typically not used as a serialization today
    - **Often transformed before being used**
      - Product-specific device repositories

- **W3C MWI Device Description WG [3]**
  - API for delivery context repositories
  - IDL
  - No normative storage format
- **OMA BT-Device Capabilities [4]**
  - Server-side API for dynamic delivery context properties
  - IDL
  - No normative storage format
- **W3C Ubiquitous Web Applications WG [5] DCCI [6]**
  - Client-side API for static and dynamic delivery context properties
  - IDL, extensions to DOM
  - No normative storage format

- **W3C UWA WG Delivery Context Ontology [7]**
  - Formal OWL [8] ontology and normative specification
  - Provide consistency for API definitions
    - **Help API designers**
  - Provide single place for definitive specification of properties
  - Does not force any particular implementation
    - **Doesn't require implementations to use OWL**
    - **But doesn't prevent them**
- **Tools**
  - Protege [9] with custom plugins
- **Collaboration**
  - All three groups providing input to the ontology
  - **And you can participate**
- **Demo**

- [1] <http://www.w3.org/2001/di/Group/ccpp2/Overview>
- [2] [http://www.openmobilealliance.org/release\\_program/uap\\_v2\\_0.html](http://www.openmobilealliance.org/release_program/uap_v2_0.html)
- [3] <http://www.w3.org/2005/MWI/DDWG/>
- [4] [http://www.openmobilealliance.org/tech/wg\\_committees/bt.html](http://www.openmobilealliance.org/tech/wg_committees/bt.html)
- [5] <http://www.w3.org/2007/uwa/>
- [6] <http://www.w3.org/2001/di/Group/di-dpf/2007-04-30/DCCI.html>
- [7] <http://www.w3.org/2007/uwa/editors-drafts/DeliveryContextOntology/2007-05-31/DCOntology.html>
- [8] <http://www.w3.org/2004/OWL>
- [9] <http://protege.stanford.edu/>