

Delivery Context Remote Interfaces

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June 8th 2007



What is a Delivery Context Client Interface?

The Delivery Context Client Interface provides a **framework** for property access and manipulation

The standard defines **declarative** interfaces to access data such as:

- Device Information: User Agent Profiles (UAPROF), screen size
- User Information: Preferences, contacts
- Dynamic device data: location services

It does *not* prescribe properties for specific implementations

DCCI Status

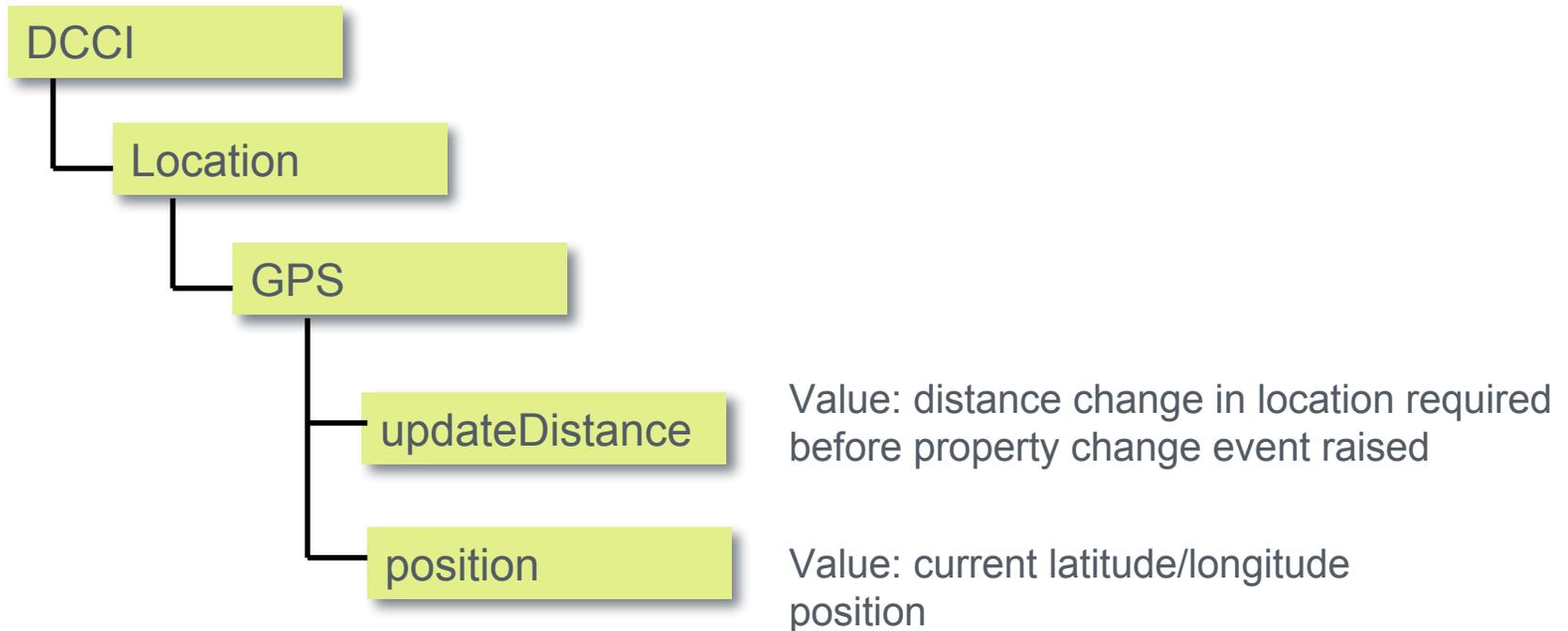
World Wide Web Consortium (W3C) recommendation document

- Ubiquitous Web Applications Working Group (UWA)
- France Telecom chairing group: IBM, Volantis, Nokia, Canon and W3C
- 1st last call 11 Nov '05
- 2nd last call 31 Mar '07
- Moving to Proposed Rec Q4 '07 - possibly Nov '07
- Implementations required for CR

Implementation Status

- Test results for a comprehensive test suite of interoperable solutions
- Implementation Report: <http://www.w3.org/2001/di/dci/ir/>
- Example usage (t.b.d)
- Primer (t.b.d)

A Location System Hierarchy

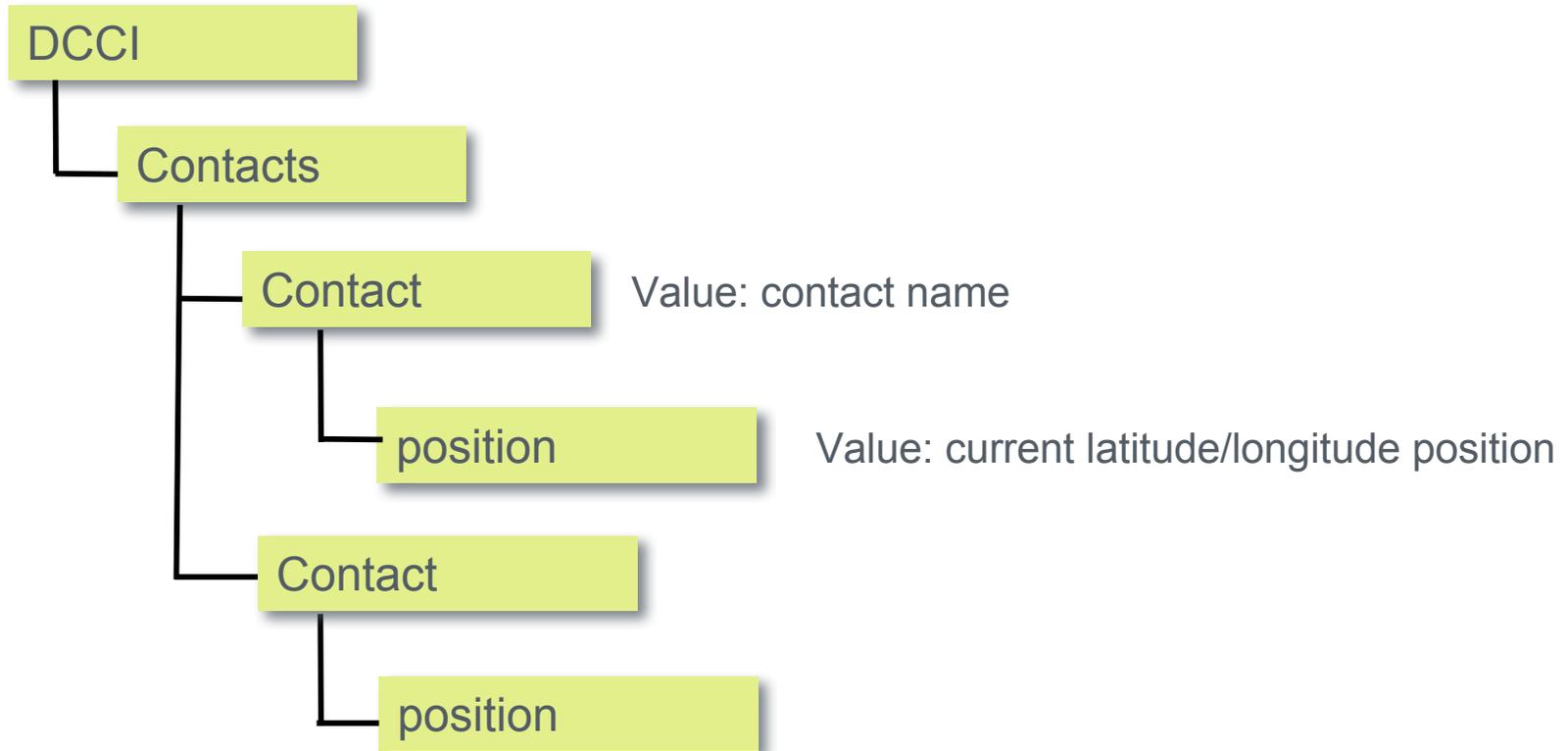


“Mashup” using contact and location information

Created two simulated property trees:

- Location: Global Positioning System (GPS)
- Contact List

A Contact List Hierarchy



Mobile Location and Address Book



Marker at our location with markers for each contact in the contact list

DCCI implications

DCCI is great for “fat-browsers”

Local processing, possible context sharing

Tomorrow’s “Web-of-things” will be thin, lightweight devices

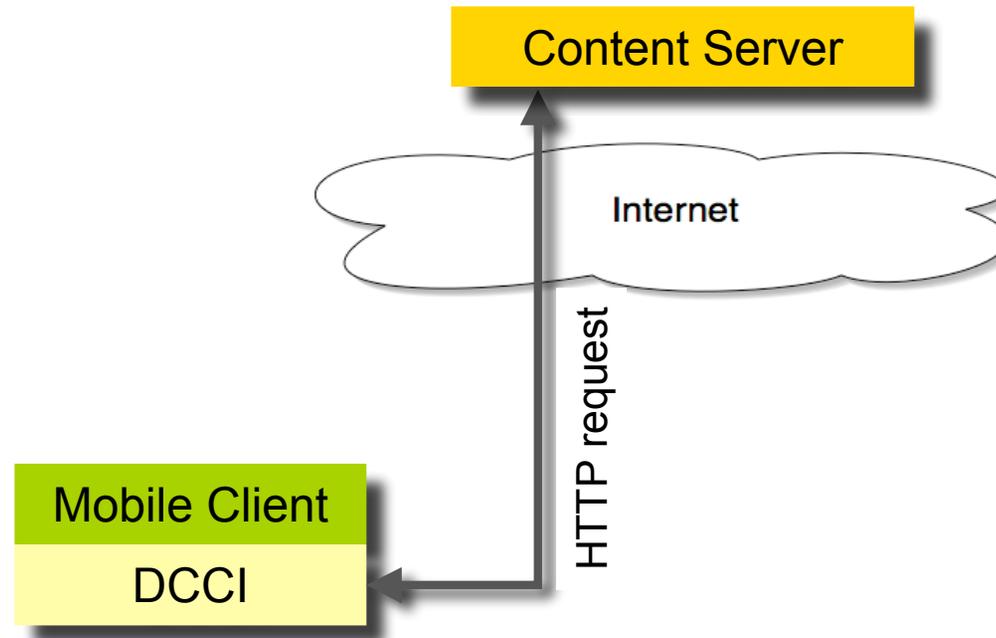
Rich browsers on thin devices unlikely

DCCI support hard

However

DCCI framework for property manipulation is valuable for adapting content

Delivery Context Client Interface



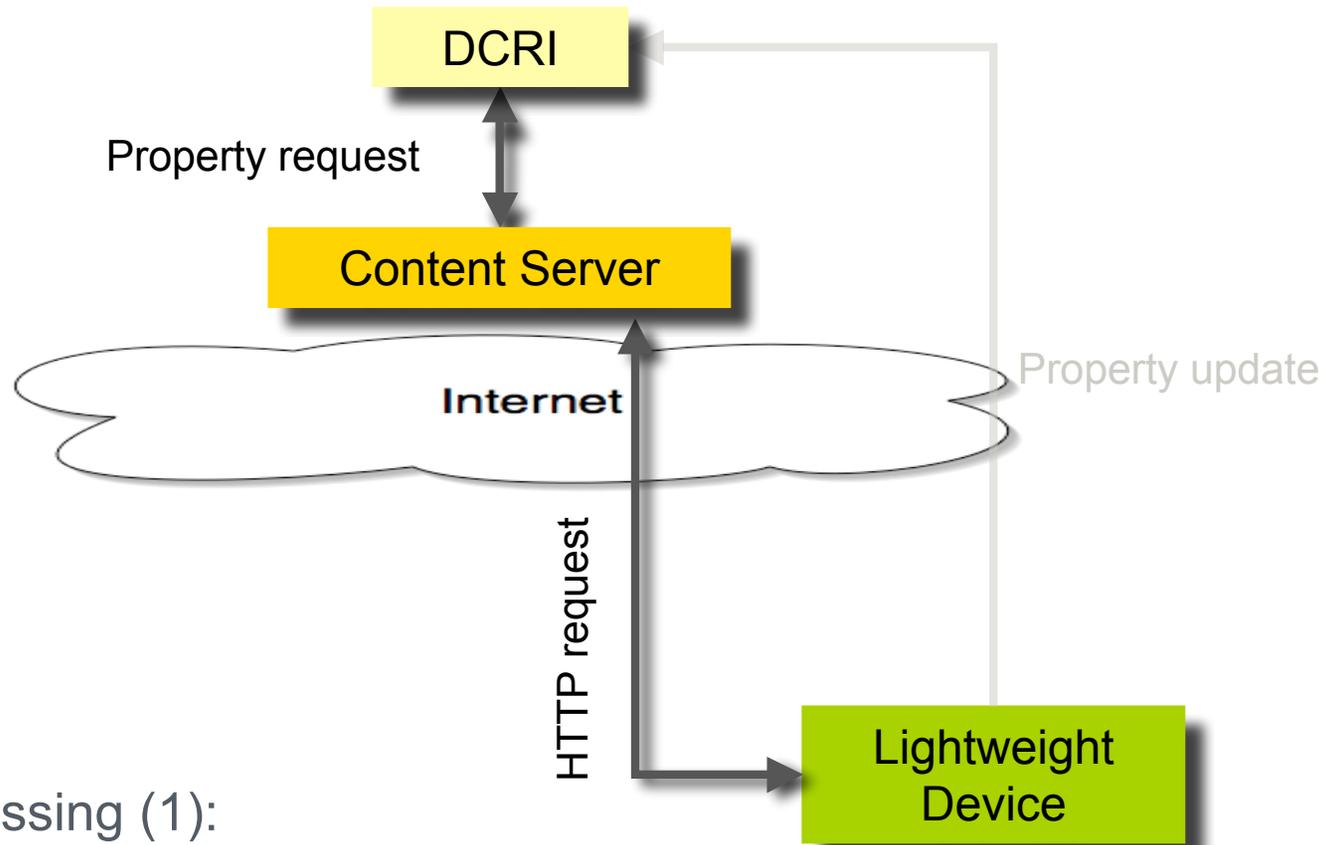
DCCI processing:

Implementation represented as a **local** hierarchy

Context processing via **JavaScript on client**

Server provides to the mobile client the **content and context**

Delivery Context Remote Interface



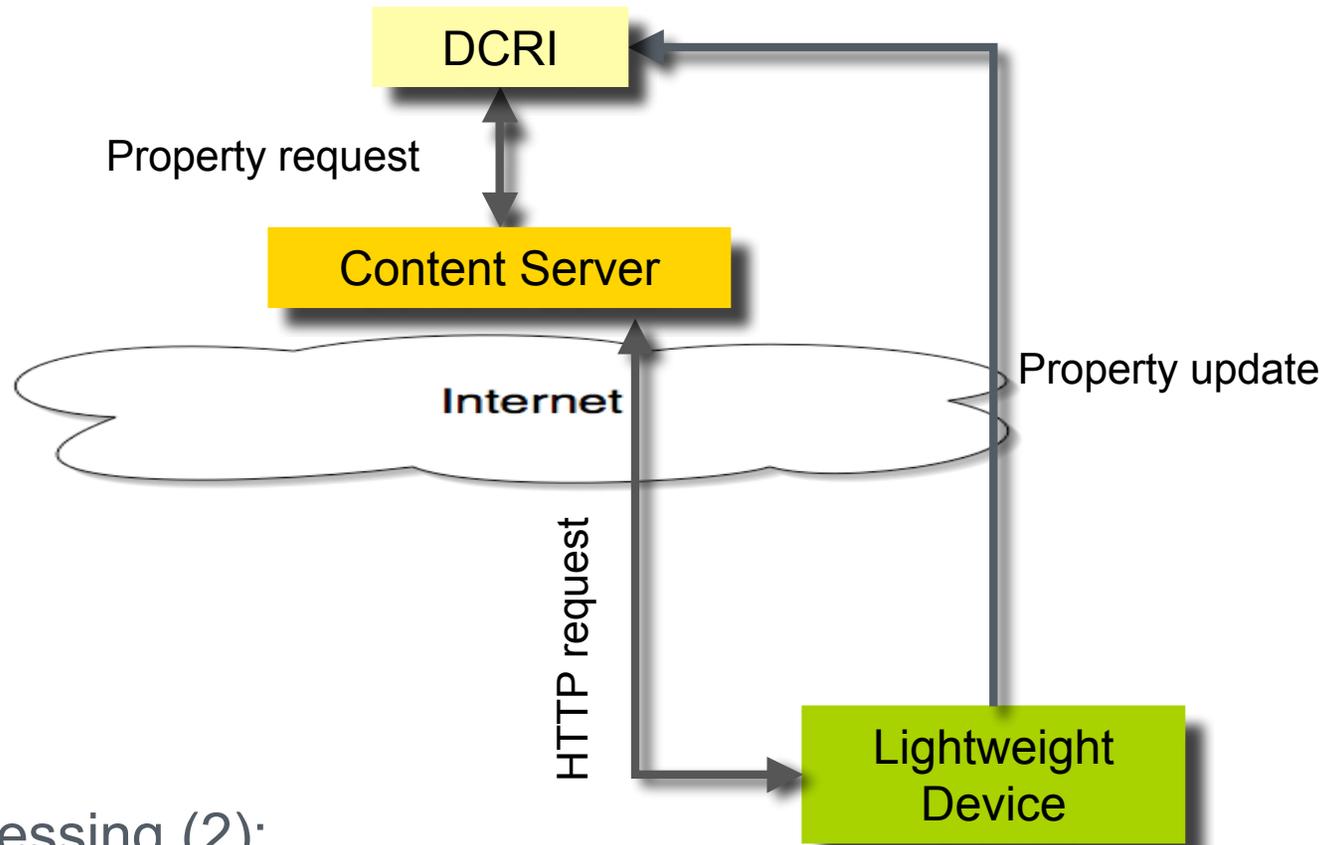
DCRI processing (1):

Server implementation represented as a hierarchy

Server provides tailored content to lightweight device

Context processing on server based on the Delivery Context **retrieved** from remote interface server

Delivery Context Remote Interface



DCRI processing (2):

Property update **from client** to remote interface server

Conclusion

- Delivery Context Client Interfaces is a powerful markup interface for mobile devices
- A Delivery Context Remote Interface has the potential to extend the application reach to lightweight UWA devices

Thank you