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W3C Interest Group

Tracking Document

W3C\_02 v0.1

[31/01/2013]

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# Welcome

Welcome to the W3C Interest Group! This group maintains minutes and actions for every meeting through this document. The document will be updated after every meeting and shared via the GSMA Infocentre. Every member is invited to read the document and make comments.

## How we will use the document

We will hold all relevant information for the group on this document in an effort to save all members rummaging through deleted emails to locate minutes or action points. Infocentre will manage the versioning of the document, and members can refer to the most recent document for each of these items:

1. Topics currently being discussed and developed
2. Opinions and comments on these topics
3. Goals
4. Action points

# Meetings

Meeting dates and times are given below.

| Date | # | Time | Notes | Format |
| --- | --- | --- | --- | --- |
| 14th May 2013 | 1 | 8:00 BST | Kick off call to discuss topics and focus areas | * Welcome * Introductions * Introduction to the Interest Group * Document and Tool use * Groups of Interest * Topics * Any other business |
| 28th May 2013 | 2 | 16:00 BST | 2nd Call | * Welcome * Introduction to Sys Apps (Dan Appelquist) * Action Points * Missed topics from last week * Ideas for new group within W3C |
| 3rd June 2013 | 2.5 | 14:30 BST | Call to discuss items missed from last call, with particular reference to Push Notifications and Testing Initiative. | * Welcome * Push Notifications & Testing Initiative (AT&T) * Next Call & GSMA/W3C New Group * Call to action * Mobile Asia Expo |
| 12th June 2013 | 3 | 14:00 Tokyo | 3rd Call to discuss the new GSMA Group and go through Tracking Document as normal | * Welcome * GSMA / W3C New Group discussion * Topics * Tracking Topics * Any Other Business |
| 25th June 2013 | 4 | 23:00 Shanghai | 4th Call | * Welcome * Introduction to the Web and Mobile Interest Group by Jo Rabin   + Q: Offline use cases   + Q: Web App discovery via search   + Q: Push * Topics   (Web and TV – Mohammed to give update)   * Tracking Topics * Any Other Business |
| 8th July 2013 | Push | 16:00 BST | Push Notifications Break Out Call | * Welcome * AT&T Discussion on WRAPI solution and Q&A * Problems we face * Solutions * Action points |
| 12th July 2013 | 5 | 7am BST | 5th Call | * Welcome * Intro to the MMI Group * Topics and action points * Tracking Topics * Any other business |
| 23rd July | Push | 7am BST | Push Notifications Breakout Call | * Welcome * Action points * HLD for implementation of Push API * Patent Advisory |
| 25th July | 6 | 23:00 BST | 6th Call | * Welcome * Face-to-Face Sessions and TPAC * Topics and action points * Tracking Topics * Any other business |
| 8th August | 7 | 7am BST | 7th Call | * Welcome * Face-to-Face Sessions and TPAC * WebRTC * Topics and action points * Tracking Topics * Breakouts and IRC * Call times * Any other business |

# Groups Of Interest

Below is a list of W3C Groups on interest.

|  |  |  |
| --- | --- | --- |
| **Working Groups** | **Community Groups** | **Interest Group** |
| [System Applications Working Group](http://www.w3.org/2012/sysapps/) | [Web Payments Community Group](http://www.w3.org/community/webpayments/) | Web and TV |
| [Device APIs Working Group](http://www.w3.org/2009/dap/) | [Network-Friendly App and WebApp Best Practices Community Group](http://www.w3.org/community/networkfriendly/) | Web and Mobile Interest Group |
| [WebRTC Working Group](http://www.w3.org/2011/04/webrtc/) |  |  |
| [HTML Working Group](http://www.w3.org/html/wg/) |  |  |
| [Web Applications Working Group](http://www.w3.org/2008/webapps/) |  |  |
| [Web Audio Working Group](http://www.w3.org/2011/audio/) |  |  |
| [Web Performance Working Group](http://www.w3.org/2010/webperf/) |  |  |
| [Web Cryptography Working Group](http://www.w3.org/2012/webcrypto/) |  |  |
| [NFC Working Group](http://www.w3.org/2012/nfc/) |  |  |
| [Tracking Protection Working Group](http://www.w3.org/2011/tracking-protection/) |  |  |
| Technical Architecture Group |  |  |

# Topics

The topics given below have been suggested by the group for discussion. Lead individuals will be identified, and goals and action points will be listed for each topic.

## Web and Mobile Interest Group (W3C Interest Group)

|  |  |
| --- | --- |
| **Suggested Leader** | Natasha Rooney |
| **URL** |  |
| **Document Location** | None |
| **Related Discussion** | None |

### Background

The Core Mobile Community Group (Coremob) worked to create a profile for mobile browsers and discuss the gaps between native and web apps. Their work concluded with the Coremob 2012 document. The success of the group allowed it to be considered to be moved to an Interest or Working Group within W3C. It was decided for it to move to an Interest Group as this allowed the coverage of such topics as commercial implementation.

The charter for this group is still being defined, readers can find it here (<http://www.w3.org/2013/04/webmobile-ig-charter.html>).

### Discussion

[14/05/13 AT&T on Coremob]

* The CoreMob CG enabled us to continue the prioritized focus on web standards interoperability we started in WAC
* Evolving to an Interest Group (IG) means it will be less open, with less participation from broader industry
* We would prefer the CoreMob CG continue
  + As a "front door" where people who are interested about W3C's focus on mobile use cases can learn about what W3C is doing and how to get involved
  + As a place where *any* topic of interest to market stakeholders can be openly discussed, get mail list and meeting time, without having to fight for priority against document/phase deliverable schedules and charter limitations
* If the “CoreMob IG” sets a precedent for that level of openness, it will be a good thing for W3C and the current CoreMob CG, but we are skeptical
* In the meantime, we should push for continuance of a CG

[12/06/13 Natasha GSMA] When discussing Operator involvement in W3C and the potential creation of a new group, it was decided that the members of the group would rather pour efforts into the Mobile and Web Interest Group as the group has both gained great traction and is already looking at a great deal of topics we are interested in.

[13/06/13 Bryan AT&T – by email] We request that W3C members in the W3CIG express their support if possible for these proposed changes to the charter, on the [public-new-work@w3.org](mailto:public-new-work@w3.org) list. This message is archived on the list at:

<http://lists.w3.org/Archives/Public/public-new-work/2013Jun/0006.html>

[25/06/2013 Bryan AT&T] We have added a number of items to the charter that are being looked at now; we wish for the charter to make a commitment to continue to look at the “coremob profile” and improve it, continue to look into and document guidelines for creating web apps that work well over the network.

[25/07/2013 Natasha GSMA] The GAMS/W3c Coop agreement is being worked out.

### Actions

|  |  |  |
| --- | --- | --- |
| **Individual** | **Action** | **Done** |
| Natasha | Add link to Coremob 2012 Document [is linked above] | 20/06/13 |
| All | Please look at Charter and submit your requests for changes |  |
| All (Next Call) | Discuss greater involvement in this group from W3CIG | 20/06/13 |
| All | Add to Charter (Bryan has added his suggestions and is awaiting approval) |  |

## Push Notifications

|  |  |
| --- | --- |
| **Suggested Leader** | Bryan Sullivan, AT&T |
| **URL** | [Push API at W3C](https://dvcs.w3.org/hg/push/raw-file/tip/index.html) |
| **Document Location** | [ATT Update on Push and Testing on Infocentre](https://infocentre2.gsma.com/gp/og/W3C/WorkingDocuments/Forms/General%20Documents.aspx) |
| **Related Discussion** | None |

### Background

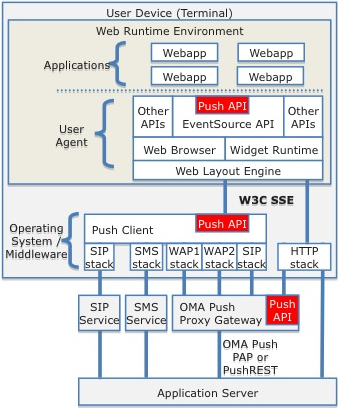
Many operators and developers we speak to feel this is a real deal-breaker for pushing development from native to web apps.

### Discussion

[14/05/13 AT&T]

* The W3C [Push API](https://dvcs.w3.org/hg/push/raw-file/tip/index.html) is currently at the FPWD stage
  + Mozilla is supporting the spec, based upon Telefonica’s implementation in Firefox OS
* The current spec is extremely simple, providing only a new event trigger (no data), and no app wakeup support
* OTA interface is transparent to the app, selected by the implementation (e.g. OMA Push, AOI, GCM, APNS, Firefox Push…)
* Standardization of app server to Push server interface is desired by Mozilla
* It’s a start, but too simple/limited for most of our use cases
  + It’s simple due to the need to workaround IPR exclusions, illustrating the major weakness of the W3C model for web framework development
  + We need to consider extensions to it, or focus on implementing the OMA WRAPI Push API and/or OMA AOI as GSMA’s standard

[03/06/2013 Bin Hu AT&T] This is an update from AT&T on the push notification spec:

* The W3C [Push API](https://dvcs.w3.org/hg/push/raw-file/tip/index.html) is currently at the FPWD stage
  + Mozilla is supporting the spec, based upon Telefonica’s implementation in Firefox OS
* A PAG (Patent Advisory Group) was launched on May 29th to handle 9 patent exclusions from Nokia.
  + The current spec is extremely simple in response, providing only a new event trigger (no data), and no app wakeup support, not even a URI
  + Not enough for broader purposes of network resources and efficiency, e.g. to avoid polling or long-lived connections
  + But a start to the goal of LCWD by the end of 2013
* Meanwhile, Chrome now supports GCM via pushMessaging Chrome API and GCM Service
  + Very similar architectural concept to our Push API proposal
* Alternative: WRAPI Push Concept based on a local server
  + Code in <https://github.com/blsaws/omaapi>

**How WRAPI Works**

* WRAPI Push defines three options for API exposure
  + Browser-based virtual API server
  + Local API server
  + Network-based API server
* For WRAPI, local & network servers support W3C Server-Sent Events (SSE) for Push event delivery
* The Push Client may be part of the OS/Middleware or a native app
* For local server, WRAPI Push needs to expose the resource
  + <http://localhost:4035/push>

[03/06/2013 Natasha Rooney GSMA]

Bin made the comment that it would be good to have more Operators at the W3C supporting this. Bin is going to put something together for us on the discussion boards to give us some further information on this topic.

[12/06/2013 Bin Hu AT&T] The new Push API spec needs to be sent to W3C by end of the year. We need clients to pull data from the server side. Is it possible to add more functionality? Let’s talk about next stage offline.

[12/06/2013 Joachim Zeiss Telecom Austria] We may have some use cases to add.

[08/07/2013 Natasha GSMA] Having discussions with GSMA legal team about helping out on this issue. Resource still may be a problem for us, need to iron out a few potential issues and will have an update by next call.

### Break-out call 8th July 2013

#### WRAPI Push Technology

Bin (AT&T) took us through the [Push Deep Dive](https://infocentre2.gsma.com/gp/og/W3C/WorkingDocuments/Forms/General%20Documents.aspx) slide deck. My notes from his talk are below.

[08/07/2013 Bin Hu AT&T]

We have talked about the WRAPI push in a few calls but here is a more in-depth look at the technology

* SLIDE 1: There 3 options for implementation. The first is based in the browser. The second is a local listener on local device and the third is legacy architecture.
  + Most feasible will be the second option, it is lightweight and much better suited to the web programming model
  + It can also be hooked into SIP and other transport protocols
* SLIDE 2: The guys from Telefonica (Eduardo) and AT&T (Bryan) have today released a new version of the [Push API](https://dvcs.w3.org/hg/push/raw-file/tip/index.html) draft spec, this details the Push Interface
  + A push server delivers notification then the user agent can dispatch notifications
  + [Natasha] Question: Does the browser needs to be open, but not the web app itself?
    - [Bin]: Yes that is correct.
  + [Natasha] Question:  Does there need to be a separate push server?
    - [Bin] WRAPI is working on this, it could be legacy WAP server, or HTTP listener or could be embedded in the browser. In reality it will be a separate server in the near future. Google crowd architecture works this way.
  + [Refer to Sequence Diagram] The user agent needs to get permission, and the user agent needs to set this up
  + The webapp needs to send the identifiers to the web app server to know about the push
  + The webapp server then sends to push server
  + [Joachim] Question: Can the user agent be started?
    - [Bin] It would need to be a functional entity, like chrome OS, then it could be connected so the push can wake the agent and the send the push. If the browser is not running it needs to be part of the OS.
    - [Dan Druta] It is a valid use case, could use OS specific methods to trigger the runtime. It requires a dependancy on the OS.
    - [Natasha] It would be good to figure out how this can be standardized. W3C or otherwise?
* SLIDE 3: Let’s go through the current [W3C Push Interface](https://dvcs.w3.org/hg/push/raw-file/tip/index.html#pushmanager-interface)
  + It defines 5 interfaces and 2 system messages
* SLIDE 4: Example Code
  + The developer must register first, and make sure push service attributes happen (connection between app and app server on sequence diagram)
  + The next function is showing if the prior push request is no longer valid then reregister.
* SLIDE 5: Example Code
  + The top function gets lists of registrations from the user agent, this is explaining where to send push message to
* SLIDE 6: Example Code
* The top function handles the content, the user agent can now handle the push notification, and the web app can deal with this.

**Bin’s Proposal:**it would be a good idea to have a GSMA project that can work on push server and push client architecture and a SIP client. For validation of the W3C spec we need two implementations. A working prototype will help us achieve this.

[08/07/2013 Eduardo Telefonica] I would like to clarify the [spec](https://dvcs.w3.org/hg/push/raw-file/tip/index.html):

* The app server could be in scope but it this hasn't yet been specified
* The interface between push server and agent might not be in scope, but again this hasn’t been Specified.
* There could be multiple implementations of this as a result
* There are other different approaches from what we have seen today, e.g. AOI. Telefonica is contributing to this, and this could be an alternative implementation. I can present this on the next call.
* The AOI solution is good for saving network resources

[08/07/2013 Bin Hu A&T] It could be complementary and can be alternative.

[08/07/2013 Istvan GSMA] Are other browser vendors doing this?

[08/07/2013 Bin AT&T] Not as far as I know, but I think that will change over the next months.

[08/07/2013 Dan Druta AT&T] I think they will if they choose to support WebRTC. Google Chrome is running their own proprietary solution.

[08/07/2013 Eduardo Telefonica] Mozilla will support it.

[08/07/2013 Natasha GSMA] Bin and I can work together to create a very high level HLD of the proposed implementation and Eduardo can present AOI for next time.

#### Patent Issue

[08/07/2013 Dan Appelquist Telefonica} I can give some update on this. Wendy Seltzer (IPR and Patent Lawyer at W3C) is working on this.

* The PAG (Patent Advisory Group) is a normal process that it sets up when such a patent issue as this happens
* The company who owns the patent usually does participate, and Nokia is participating in the PAG
* In this way it should be a collaborative process
* We are trying to either work around the patent, or find out whether the patents don't apply
* To be on the PAG you must be in the original W3C group, but the chair can invite an expert: and it will be good if a GSMA lawyer can help us here
* [Natasha] I am working on this with Michael Loch tomorrow and we will find out if this is feasible!
* Minutes of the Push PAG kick-off call: <http://www.w3.org/2013/07/02-papag-minutes.html>

### Actions

|  |  |  |
| --- | --- | --- |
| **Individual** | **Action** | **Done** |
| Natasha | Split web notifications and push into 2 separate topics | 14/05/13 |
| Bin | Provide an overview of the technical specs (W3C and OMA) to the group with focus on why operator involvement is necessary, upload this information to an Infocentre discussion | 03/06/13 |
| Natasha | Send information round to group – is in discussions and documents part of Infocentre | 05/06/2013 |
| Natasha | Ask Legal team and encourage other Operators to ask their legal teams to look at the issues around the patents from Nokia. Ask IPR team to feature in one of the upcoming calls. | 08/07/2013 |
| Natasha | Setup call with Bin in how we can help | 08/07/2013 |
| Natasha | Setup call! | 08/07/2013 |
| Eduardo | Present the AOI solution on the next call |  |
| Natasha and Bin | Create very high level HLD of what we would like to do  Natasha – rejig HLD for “implementation” rather then “product” |  |
| Dan Appelquist | Find out which other operators are on (or can be on) the PAG |  |

## Offline (App Cache and Offline Storage)

|  |  |
| --- | --- |
| **Suggested Leader** |  |
| **URL** | [Data Storage on “Mobile Web App State” W3C Page](http://www.w3.org/2013/02/mobile-web-app-state/#Data_storage) |
| **Document Location** | None |
| **Related Discussion** | [Offline Use Cases on Infocentre](https://infocentre2.gsma.com/gp/og/W3C/Lists/GroupDiscussions/AllItems.aspx?RootFolder=%2Fgp%2Fog%2FW3C%2FLists%2FGroupDiscussions%2FOffline%20Use%20Cases&FolderCTID=0x01200200C8E37795E3BA7B45A0BCED96A9114744&View=%7B044448D4-26E0-471B-8389-FC2756F5A62B%7D&TopicsView=https%3A%2F%2Finfocentre2%2Egsma%2Ecom%2Fgp%2Fog%2FW3C%2FLists%2FGroupDiscussions%2FAllItems%2Easpx) |

### Background

Offline capabilities are still not workable, in fact it is recommended not to use App Cache in its current state. Below is a brief outline of the current situation.

* **AppCache:** currently in the same situation and with the same issues as 1.5 years ago
* **Offline Storage:** We have localStorage but the quotas are so limited, and IndexedDB is unpopular, hard to use, not available on mobile

### Discussion

What can Operators do in this space?

[14/05/13 Bryan Sullivan AT&T] We should look at how is the vision for offline applications changing? “Local cloud” could mean changes.

[14/05/13 Dan Appelquist Telefonica] We should decide on what the user experience should be, and how this differs on platforms. Use cases and requirements are a good starting point.

[12/06/13 Natasha GSMA] I think this should be talked about in the Web and Mobile Interest group in W3C

### Actions

|  |  |  |
| --- | --- | --- |
| **Individual** | **Action** | **Done** |
| Natasha | Create Use Cases document/discussion | 28/05/2013 |
| All | Add use cases to the document/discussion | Ongoing |
| Natasha | Offline call/session?! Plan | 16/07/2013 |
| Natasha | Send new IRC instructions email – to people who want it |  |

## WebRTC

|  |  |
| --- | --- |
| **Suggested Leader** |  |
| **URL** | [Web Real-Time Communications Working Group](http://www.w3.org/2011/04/webrtc/) |
| **Document Location** | None |
| **Related Discussion** | None |

### Background

The “Mobile Web Interest Group” encountered some technological issues when discussing business cases for WebRTC. This group has also expressed desire for WebRTC to be elevated to a “Topic”.

### Discussion

[25/07/2013 Istvan GSMA] we are looking at capabilities of WebRTC and how operators can contribute. Identity, security, QoS, video codec, engage with browser vendor to get implemented, engage with vendors at later stage. We worked with AT&T on metrics.

[25/07/2013 Istvan GSMA] The technological aspects we need to address are around transcoding, video codecs, authentication, identity, security. Conversion is also a big topic, as is QoS.

[25/07/2013 Jerome Alcatel] we should talk about 3GPP, they have a work item on WebRTC, talking about IMS

[08/08/2013 Natasha GSMA] Transcoding, codecs and other issues out of Mobile Web Interest Group.

[Dan Druta] last call talked about the topics of media and codec mismatch with volte and rcs, good presentation from orange (targeted to participants in IETF) with an action to consider the availability of existing codecs on the device to WebRTC services. Currently suggested to using opus (to maintain high definition audio between WebRTC and others) – but this is a disadvantage to incompatibility to rcs and volte. We don’t have a lot of influence on IETF, and if this support is lacking in IETF then we may have to look at implementing opus (rather then IETF adopting mri band). Codec is a big issue in IETF, it is a W3C problem but it is being discussed in IETF. Both parties need compatible codecs. We could ask browser vendors to get access to codecs on device, or add opus to IR92/4. If we can’t do anything with this situation then how can we provide solutions for compatible services?

[Carl] Would it help if we have more operators support the orange proposal?

[Dan] The IETF works by individuals, not business, so it can be difficult. But this may work by approaching browser vendors.

[Carl] if operators agree to implement WebRTC with a compatible codec then would this work?

[Dan] big question is how we get the browser to add a codec. Browsers find it difficult to distinguish between codecs downloaded by user or provided by the operator, anything they access outside the browser realm could jeopardise the security.

[Carl] we will have a discussion about this in PSMC. Also will talk about IMS and WebRTC.

[Thomas] issue is license free codecs to non-license free codecs. Mozilla won’t go for a non-license free.

[Hyewon] could we influence browser vendors? We could share our logic with them, and show them that if they do not implement compatible codecs then they cannot connect with our legacy systems. We could take this to 3GPP.

[Dan] we can adopt opus; this is one thing we can do. We then create compatibility for telco services, it’s implementable, it’s royalty free, developed by IETF. We can get it into our profiles.

[Carl] logically we can do this, these things often come with problems but we should explore it.

[Thomas] Jerome will know about this from 3GPP

[Natasha] let’s get him to update us

### Actions

|  |  |  |
| --- | --- | --- |
| **Individual** | **Action** | **Done** |
| Natasha | How authentication and security works in webRTC |  |
| Jerome & Natasha | Update on 3GPP, find out what’s going on |  |
| Natasha | Get some info on codecs on RTCWeb (IETF). (Cullen?) |  |
| Natasha | Put WebRTC issues we have discussed here for PSMC – send to Carl |  |
| Thomas | Talk with Katrin and guys at TSG about this issue (Sept). |  |
| Jerome, Hyewon, Natasha | 3GPP updates on codecs |  |

## Network Information API (part of W3C Device APIs Group)

|  |  |
| --- | --- |
| **Suggested Leader** |  |
| **URL** | [Network Information API W3C Draft](http://www.w3.org/TR/2012/WD-netinfo-api-20121129/) |
| **Document Location** | None |
| **Related Discussion** | None |

### Background

The version of the spec includes some potentially harmful / unimplementable items for mobile networks and there is lack of consensus of how to proceed with the spec.

### Discussion

[14/05/13 Diana Cheng Vodafone] Significant difference to sys apps Network API. With regards to this topic there is little consensus within the group and more work needs to be done with regards to use cases.

[14/05/13 Bryan Sullivan AT&T] Browser vendors working with security implications.

[12/07/13 Eduardo Telefonica] – f2f in august, but this is second phase

[12/07/13 Dan Telefonica] KDDI have some specific use cases, important to their market, e.g. being able to automatically join wifi networks being run by KDDI.

[12/07/13 Natasha GSMA] let’s ask them to join next call

[08/08/2013 Natasha GSMA] I asked KDDI, they said: “I had exactly the same understanding with regard to this API. There is a lot of hesitancy to support it in W3C. You mentioned something about automatic WiFi on-and-off, but we don't have such an intelligent one, yet. Automatic WiFi selection to our hotspot has been implemented and used for our customers, but this is not so special […] don't have any convincing use case now”.

### Actions

|  |  |  |
| --- | --- | --- |
| **Individual** | **Action** | **Done** |
| Natasha | Start use case document/discussion and setup breakout call | On hold |
| Natasha | Ask KDDI to join next call to give input |  |
| Natasha | Take people through the basic on next call |  |

## W3C Open Web Testing Program

|  |  |
| --- | --- |
| **Suggested Leader** | Bin Hu and Bryan Sullivan |
| **URL** | Tobie Langel’s [blog post](http://www.w3.org/QA/2013/02/testing_the_open_web_platform.html), [W3C Testing wiki](http://www.w3.org/wiki/Testing/) |
| **Document Location** | None |
| **Related Discussion** | [W3C Test Initiative discussion on Infocentre](https://infocentre2.gsma.com/gp/og/W3C/Lists/GroupDiscussions/AllItems.aspx?RootFolder=%2Fgp%2Fog%2FW3C%2FLists%2FGroupDiscussions%2FW3C%20Test%20Initiative&FolderCTID=0x01200200C8E37795E3BA7B45A0BCED96A9114744&View=%7B044448D4-26E0-471B-8389-FC2756F5A62B%7D&TopicsView=https%3A%2F%2Finfocentre2%2Egsma%2Ecom%2Fgp%2Fog%2FW3C%2FLists%2FGroupDiscussions%2FAllItems%2Easpx%3FInitialTabId%3DRibbon%2EListItem%26VisibilityContext%3DWSSTabPersistence) |

### Background

There became a need to consolidate all W3C testing and make it easier to submit and review tests. Tobie Langel wrote a great [blog post](http://www.w3.org/QA/2013/02/testing_the_open_web_platform.html) on the need for such an initiative. Within this post, Tobie mentioned what the new initiative would do, here are the main points:

* We’re going to **move all tests to a central repository on GitHub**.
* We’ll be **streamlining test contribution and review processes**. There will still be a contribution license, but the process for agreeing to the license will be simpler than it is now.
* We’re creating a **dedicated resource center** for all things testing. There, you will find documentation, tutorials, test coverage, browser support, and other valuable data points, as well as information on how to download and run the test suites locally.
* We are **overhauling the test framework** to cater for the different use cases we’ve collected, such as running subsets of test suites or being able to install a local copy of the framework to test prototype devices or unreleased browsers.
* We will also set up an instance of the test framework on a public server so you can run tests on various devices over the Web.
* We’ll **publish test results** to give developers a clear picture of support for a feature (e.g. IndexedDB) or even a subset of a feature (e.g. blob support in IndexedDB).

A few other items will be products of the test intiative; the **test the web forward** events and website, **external certification.**

If you wish to find out more information read Tobie’s [blog post](http://www.w3.org/QA/2013/02/testing_the_open_web_platform.html) or visit the [wiki pages](http://www.w3.org/wiki/Testing/).

### Discussion

[03/06/2013 Natasha Rooney GSMA] AT&T have committed some resources to the test initiative. They understand the benefit to operators and wish to encourage further opertors to join the effort. Below is an update from Bin Hu re the AT&T contribution efforts.

[03/06/2013 Bin Hu AT&T]

* AT&T has committed 0.5 FTE to working with W3C:
  + Testing focus prioritization
  + Organization of overall effort
  + Process and Documentation
  + Framework development
  + Etc. all kinds of tasks as needed
* GSMA can help set priorities
  + A larger group of voices involved, as compared to W3C where there are few MNOs active.
* GSMA can help augment the test framework with additional assets, e.g. focusing on device performance.
* GSMA or its members can apply resources to the W3C work
  + E.g GSMA, as an organization, to sponsor

Operators care because web apps impact the network and user experience – we need to be involved in this. Also we need to be involved in how multimedia apps impact our networks, and how the network can support these. Browser vendors or developers don’t care, but we do!

[12/06/13 Gavin Vodafone] Something like remark is very valuable. It is critical that the W3C testing product has some benefit to operators. If some tooling exists then this would be useful to Operators.

[12/06/13 Dan Appelquist Telefonica] Shouldn’t we suggest to them that they fork Ringmark?

[12/06/13 Gavin Vodafone] 2 parts to this problem: volume of tests (a huge task) and out of those thousands of tests which are the key ones which are actually useful? Ringmark is good at that.

[12/06/13 Dan Druta AT&T] I think we need to be more specific; Ringmark is another tool under a toolbelt. The stats behind what is implemented across browsers is valuable. Web Driver will be used in the Web Apps group.

[25/07/2013 Bin AT&T] fundraising needs some work, progress is a little slow, but some groups are working on their own tests (like Sys apps for example).

[Bin] consolidation of CSS use cases is happening, in two steps (due to many comments). Test suite for HTML5 has been updated mainly for video, media elements. There seems to be differences in plans from Tobie and Robin, maybe differences in counting tests.

[Natasha] any way we could implement the testing in some sort of toolkit?

[Bin] we need to be very familiar with the spec and be able to read the test code. It will be a huge amount of work. See coverage table Robin put together.

### Actions

|  |  |  |
| --- | --- | --- |
| **Individual** | **Action** | **Done** |
| Bin / Natasha | Start discussion, get comments going | 04/06/2013 |
| All | More involvement in W3C testing – whether it be time, sponsorship or otherwise. Let’s think of ideas and bring them up on the next few calls. |  |
| Natasha | Detail the testing programme deliverables (is now above) | 25/06/2013 |
| Natasha | Dummy HLD for a test toolkit |  |

## Compliance and Performance tooling

|  |  |
| --- | --- |
| **Suggested Leader** |  |
| **URL** | [Ringmark](http://rng.io/), [Benchmarks on MDN](https://wiki.mozilla.org/Benchmarks) |
| **Document Location** | None |
| **Related Discussion** | None |

### Background

In the Coremob Community Group it was suggested that a tool that tested compliance and performance for mobile browsers would be a great way to push mobile web technologies forward. Gavin Thomas made the great comment that a tool would be good not only for developers but also for internal operator testing teams. There is a scope for this group to work on a tool with the Mobile Web interest group.

### Discussion

[14/05/13 Bryan Sullivan AT&T] We are using Ringmark for testing internally

[14/05/13 Dan Appelquist Telefonica] Tobie Langel working on this currently

[14/05/13 Natasha GSMA] We could extend Ringmark to cover performance testing

[12/06/13 Natasha GSMA] There is a good case to use the output from the W3C Test Initiative and use this to build a test suite for Operators and OEMs to use in their testing departments. Let’s look at what the group is going to test and see if this is a viable option for us.

### Actions

|  |  |  |
| --- | --- | --- |
| **Individual** | **Action** | **Done** |
| Gavin Thomas | Provide rough ideas for future toolsets, bring this discussion to the next call |  |
| All | Think about what Ringmark is missing |  |
| Natasha | Investigate lists of tests from W3C Test Initiative and compare stats to group |  |

## Web App Discovery via Search

|  |  |
| --- | --- |
| **Suggested Leader** |  |
| **URL** | None |
| **Document Location** | None |
| **Related Discussion** | None |

### Background

FirefoxOS and a few others have some interesting suggestions for how this should work. Technical implementations can be discussed in this group and commercial implementations can be discussed in the Mobile Web Interest Group.

### Discussion

[12/06/13 Dan Druta AT&T] We investigated this in WAC, produced a report. Let’s get this and add this to the discussion. Websites are doing this self-discovery; e.g. some websites have a “there’s an app for this” bar. Another alternative is location; discover via location.

[12/06/13 Dan Appelquist Telefonica] I think we will see the rise of alternative app stores. We should perhaps leverage the schemas on schema.org.

[12/06/13 Jim Smart] Yes we do run an app store. We still feel we need these as some of these get in-app operator billing. There is restriction in this area, and we have a feeling Google will move this way so users have to use Google Wallet.

[12/06/13 Dan Appelquist Telefonica] There are regional differences. In Europe we have had more problems with operator app stores. We are doing more “store-within-a-store”. FFOS can download apps from any location.

[12/06/13 Gavin Vodafone] Search is a powerful way to discover, so standardisation in this topic would be good.

[12/06/13 Joachim Zeiss Telekom Austria] Semantic methods do exist.

[12/06/13 Istvan GSMA] “Next generation search” is a search method. I will send the details I have on this.

[12/07/13 Joachim Telekom Austria] It would be good to have a look at json-ld (<http://json-ld.org/>)

[12/07/13 Dan Telefonica] the question of how people search for apps in the future is an important one. There is a question of discovery vs. monetisation and how app stores will work with this.

[12/07/13 Natasha GSMA] I believe we will search for apps via search engines in the future

[12/07/13 Dan Telefonica] yes it does seem app stores don’t scale. The URL is a great way to index apps, and native doesn’t have this

[12/07/13 Istvan GSMA] we could invite some people to give some input

[08/08/2013 Natasha GSMA] This appears to sit in the Sys Apps Group, last document check in was by Mozilla (<http://www.w3.org/2012/sysapps/manifest/>).

[Bin] be careful as their might be some licensing issues!

### Resources

* Schema.org list: <http://schema.org/docs/full.html>
* W3C Wiki on GoodRelations - <http://www.w3.org/wiki/GoodRelations>
* semanticweb.org Introduction - <http://semanticweb.org/wiki/GoodRelations>
* Goodrelations Primer - <http://www.heppnetz.de/projects/goodrelations/primer/>
* Products and Service Ontology - <http://www.heppnetz.de/projects/eclassowl/>
* W3C Spec in Sys Apps WG (<http://www.w3.org/2012/sysapps/manifest/>)

### Actions

|  |  |  |
| --- | --- | --- |
| **Individual** | **Action** | **Done** |
| Natasha and Dan Appelquist | Get schema list | 20/06/2013 |
| Natasha | Find out where this sits in W3C (Web and Mobile Interest Group)? | 01/08/2013 |
| Joachim | Send semantic methods to Natasha | 21/06/2013 |
| Istvan | Send details of next generation search | 13/06/2013 |
| Natasha | Organise breakout after offline breakout & make a list of possible additions to the manifest file |  |
| Istvan | Send round urls of app store providers |  |
| Natasha | Take a first stab at adding categories/keys to manifest files (categories, age rating, desc etc, etc) – check licensing issues |  |

## Web and TV Interest Group

|  |  |
| --- | --- |
| **Suggested Leader** |  |
| **URL** |  |
| **Document Location** | None |
| **Related Discussion** | None |

### Background

A new group has started within the W3C which has been attracting a lot of interest from the GSMA members, this is the Web and TV Group. We should discuss the interest in this group and how and why we want to work within this area.

* The Web and TV Interest Group is to provide a forum for Web and TV technical discussions, to review existing work, as well as the relationship between services on the Web and TV services, and to identify requirements and potential solutions to ensure that the Web will function well with TV.

### Discussion

[25/0613 Mohammed Dadas Orange] We will produce requirements and provide these to specific working groups (e.g. HTML WG). Working on how the web is managed on TV, 3D, video on web etc.. Orange is keen to clarify need for web and TV, addressing different devices. Also looking at Encrypted Media Extensions (DRM), and Media Sources Function.

[25/06/2013 Bryan AT&T] Encrypted Media Extensions is very important deliverable of the group. Internet storage for offline use cases also.

[25/06/2013 Joachim Telecom Austria] Are there multi-device goals?

[25/06/2013 Mohammed Orange] Yes we will look at this, and WebRTC has been included.

[25/06/2013 Bryan AT&T] Use case wiki (<http://www.w3.org/2011/webtv/wiki/Main_Page>)

[12/07/13 Bin AT&T] I can give an update; we had a conference call on Wednesday. There are 7 use cases, and we are now putting requirements together, I’m doing this, should be done by next week. Suggestions for further use cases are welcome! Use cases (<http://www.w3.org/2011/webtv/wiki/Media_APIs/Use_Cases>), it would be good to add to these.

[25/07/2013 Natasha GSMA] The news this week has been all around Google Chromecast.

[25/07/2013 Bin AT&T] we have gone through the use cases, requirements have been updated, we are looking for new contributions, we will be talking about this at our TPAC meeting, especially use cases for business within operators

[Bin] task force has released their first draft. Please comment.

### Actions

|  |  |  |
| --- | --- | --- |
| **Individual** | **Action** | **Done** |
| Mohammed | Provide update on next call | 28/06/13 |
| Joachim | We have some use cases (end of July) |  |
| All | Check use cases in link Bryan sent |  |
| All | Take a look at use cases and add |  |
| Natasha | Check use cases are being added or that we are happy with situation – next call go through use cases so people know situation |  |

## Web Notifications

|  |  |
| --- | --- |
| **Suggested Leader** |  |
| **URL** | [W3C Working Draft](http://www.w3.org/TR/notifications/) and [CanIUse.com](http://caniuse.com/#feat=notifications) |
| **Document Location** | None |
| **Related Discussion** | None |

### Background

There is a need for native-like, status bar-like notifications. At the moment only these are only available on Desktop browsers (<http://caniuse.com/#feat=notifications>).

### Discussion

### Actions

|  |  |  |
| --- | --- | --- |
| **Individual** | **Action** | **Done** |
| Natasha | Invite an expert to come along to speak about this issue (Diana) |  |
|  |  |  |
|  |  |  |

# Tracking Topics

Some topics do not require on-going actions but need to be tracked to make sure everyone is aware of the current situation of W3C groups/specs and whether we need to engage more. The “Leader” for each group should provide update when necessary (ideally every call but more likely once a month).

## Sys Apps

|  |  |
| --- | --- |
| **Leader** | Dan Appelquist |
| **URL** | [W3C Sys Apps Group](http://www.w3.org/2012/sysapps/) |
| **Document Location** | None |
| **Related Discussion** | None |

### Background

The System Apps group within the W3C is one which almost all operators have expressed interest. “Phase 2” APIs are very important to some operators and they welcome discussion on how to get started. Operators also want convergence in the Tizen / Firefox OS platforms. The work is being defined but support is needed from operators and OEMs.

Furthermore **application packaging is fragmented**, there is low adoption of W3C Widgets, Chrome and Mozilla with proprietary formats. This is being managed within the Sys Apps group.

### Discussion

[14/05/13 AT&T]

* [SysApps](http://www.w3.org/2012/sysapps/) is continuing development of robust device APIs
  + Reflects the real success of the BONDI/WAC initiative, which helped spawn Tizen and Firefox OS as well as K-Apps
  + Provides an opportunity to resolve the failure of the W3C (and DAP WG in particular) to support the BONDI/WAC vision
* Following are comments on some of the proposed APIs
* Phase 1: Application manifest
  + WebApps will develop the manifest spec, as a successor to the Widgets Packaging spec
  + SysApps will develop extensions as needed for specific uses, e.g. [as proposed by ETRI](http://www.w3.org/wiki/System_Applications_WG:_Manifest)
  + GSMA should identify gaps, e.g. per WAC 2.0 Widget Security and Privacy, Widget Lifecycle and Widget Runtime specs
  + GSMA should promote W3C support for key manifest needs, or extend the W3C spec as needed to address gaps unaddressed by W3C

**Phase 2**

* [Phase 2](http://www.w3.org/2012/sysapps/) contains many APIs of key interest to AT&T, the following ones in particular
* Network Interface API
  + Can help address app network efficiency needs largely unappreciated by W3C
* System Settings API
  + Can address global concerns such as identity and privacy, ensuring a reasonable UX, while addressing personal preferences and business model needs for applications and marketing
* Media Storage API
  + Can address a key gap in the web framework, i.e. ability to effectively manage large amounts of locally stored data
* GSMA should help motivate W3C to support development of these APIs prior to the completion of Phase 1, and promote collaborative development of reference implementations

[14/05/2013 Bryan Sullivan AT&T] Sys apps work going well, learned from Firefox and Tizen, we would like to see how we can make progress on Phase 2.

[12/07/13 Eduardo Telefonica] please see more info <http://www.w3.org/2012/sysapps/>

Bin – looking at contacts, dom requests will be deprecated, and moving to another model, testing is another big topic, helping the test initiative.

## TAG (Technical Architecture Group)

|  |  |
| --- | --- |
| **Leader** | Dan Appelquist |
| **URL** | [W3C TAG](http://www.w3.org/2001/tag/) |
| **Document Location** | None |
| **Related Discussion** | None |

### Background

W3C has created the [TAG](http://www.w3.org/2001/tag/) to document and build consensus around principles of Web architecture and to interpret and clarify these principles when necessary, to resolve issues involving general Web architecture brought to the TAG, and to help coordinate cross-technology architecture developments inside and outside W3C.

### Discussion

Dan – tag election

<http://www.w3.org/blog/TAG/>

<https://www.w3.org/2013/06/17-tag-nominations.html>

<https://www.w3.org/2002/09/wbs/33280/tagelect201306/>

Natasha – web components

## Web Payments

|  |  |
| --- | --- |
| **Leader** | Natasha Rooney |
| **URL** | [Web Payments Community Group](http://www.w3.org/community/webpayments/) |
| **Document Location** | None |
| **Related Discussion** | None |

### Background

Web Payments Community Group has begun and is working on standardisation for payment on the web. This is an interesting topic for Operators due to pay-by-bill

### Discussion

[14/05/13 Natasha GSMA] The group’s second call will be held on 14th May 2013. Mozilla should be present. Natasha will continue to provide updates but recommends others to join the calls if possible.

[12/06/13 Natasha GSMA] The group will continue to look into payment methods including the MozPay method. There was a lot of work and discussion on this topic at the W3C AC meeting showing a commitment by the W3C to pick this up. I still think it is an important topic.

# Any Other Business

Many topics were raised for discussion within one-to-one talks with operators and OEMs. Here is the list of extra topics.

* **New Topics – please let Natasha know if you have new topics!**
* **New members**
* **Update on Collab agreement**
* **WebRTC:** WebRTC is a hot topic within the Operator space due to offering a new communication method and transport mechanism. WebRTC could be seen as a threat but can be a business opportunity.
  + **IETF and W3C**
  + **Quality of Service**
    - **Milan giving update: qos is an issue, 3gpp looking at this**

## Actions

|  |  |  |
| --- | --- | --- |
| **Individual** | **Action** | **Done** |
| All | Please read Bryan’s document on testing initiative | 03/06/2013 |
| Natasha | Move testing into own topic | 04/06/2013 |
| Natasha | Look into IETF |  |
| Natasha | Add web and TV to main topics | 14/06/2013 |
| Natasha | Pull technology topics for webrtc into main topic area | 25/07/2013 |

Appendix

# Appendix 1: Closed Topics

Here we will add closed topics; those we feel have been addressed, actions have been completed and have reached conclusion.

## GSMA Operators in W3C

|  |  |
| --- | --- |
| **Suggested Leader** | Natasha Rooney, GSMA |
| **URL** | None |
| **Document Location** | None |
| **Related Discussion** | [Discussion on Infocentre](https://infocentre2.gsma.com/gp/og/W3C/Lists/GroupDiscussions/Flat.aspx?RootFolder=%2Fgp%2Fog%2FW3C%2FLists%2FGroupDiscussions%2FNew%20W3C%20Group%20Managed%20by%20GSMA%20Members&FolderCTID=0x01200200C8E37795E3BA7B45A0BCED96A9114744) |

### Background

GSMA are extremely interested in working more closely with the W3C in getting Operators more engaged with the technologies and business processes of the Mobile Web. We are currently investigating possible new areas of collaboration between the GSMA and W3C, and one of these possibilities is starting a new Community Group within the W3C. A Community Group is defined as:

"A W3C Community Group is an open forum, without fees, where Web developers and other stakeholders develop specifications, hold discussions, develop test suites, and connect with W3C's international community of Web experts."[[1]](#footnote-1)

We had a number of ideas for the group. Our top choices are outlined below.

|  |  |
| --- | --- |
| **Name** | **Description** |
| Mobile Web Intents Task Force | The Coremob Interest Group will continue monitoring the gaps between native and web and investigate business opportunities around Mobile web. What they need is a group to take their recommendations, flesh these ideas out into proper requirements and then make them happen throughout the various groups within W3C.  **Why is it a good idea?** This covers a wide range of possibilities and will allow Operators to have a large reach across the W3C. Topics could include WebRTC, Push Notifications etc.). |
| Mobile Performance | Help develop the Network Efficiency Community Group lead by Bryan Sullivan with a focus on Network Connectivity, Offline Behaviour and Content Caching. The group could develop guidelines and/or APIs that allow websites and applications to work more harmoniously with Operator Network and to give users a smooth UI when moving in and out of connectivity.  **Why is it a good idea?** Operators would have a stage for making real contribution in this area. Guidelines and APIs will contribute to smarter apps to allow less traffic on the network, and well-run offline behaviour will encourage developers to create web applications. |
| Mobile Web Payments | The Web Payments group are trying to create a universal solution for payment over the web, and there is a large case for Operator payment to be involved. For example, the proposals from "Payswarm" to create an easy method to pay for content over the web can easily integrate with a pay-to-bill scenario allowing profits to the Operators.  **Why is it a good idea?** There is an easy recognisable profit although working in this realm will of course attract a number of players outside of the Operator space. |

### Discussion

The GSMA's main goal is to make sure Operators want this group and would want to take part. Can you please take a look at some of the proposals below and let me know two things:

1. Do you agree with one of these ideas for a W3C Community Group?
2. Would your company attend the group meetings?

[28/05/13 Mohammed Dadas Orange] We would support, all three topics are interesting. Next AC meeting will have a brainstorming re community groups. I suggest we defer to after AC meeting. CGs are open to all, but CGs cannot create documentation, must find a WG or IG to develop the spec.

[28/05/13 Dan Appelquist Telefonica] Webpayments driven by “PaySwarm” (potentially too heavily). Not sure whether best course of action to jump into a web payments group as we’re talking about different things.

### Actions

|  |  |  |
| --- | --- | --- |
| **Individual** | **Action** | **Done** |
| All | Look at the list of suggested groups and make comments. Feel free to suggest new ideas also. | 12/06/13 |
| Natasha | Sort out a GSMA/W3C members meeting to discuss this, make sure we have dial in details. | 12/06/13 |
| Natasha | Start a discussion on this topic | 12/06/13 |
| Natasha | Decision was to support Web and Mobile interest group, send email to check with all members |  |
| Natasha | Send link to all members on the questionnaire for Web and Mobile Interest Group  <https://www.w3.org/2002/09/wbs/33280/webmobile-ig/>  <http://www.w3.org/2013/04/webmobile-ig-charter.html> |  |
| All | Read charter and make comments in next call |  |
| Natasha | Make suggestion on charter for performance |  |

### Decisions and Conclusions

The group was not keen on the idea of a new group. This was because of a few reasons:

1. With both the "W3C Interest Group", the "Mobile Web Interest Group" and the groups that the members sit on *within* the W3C the members were not happy with committing to another group
2. The AC meeting confirmed the evolution of Coremob to the "Mobile and Web Interest Group" and are encouraging operator involvement in this space
3. Despite the Web Performance topic being popular the members felt this could be covered by the "Mobile and Web Interest Group" within the W3C.

The overall decision was, instead of creating a new group, we should focus our efforts on this "Mobile and Web Interest Group". All the members agreed to this (with a few absent exceptions of which I am checking). We think this is the best move forward because this new group commands great respect within the W3C and would attract the best interest; in turn it has the best hope of surviving and has direct impact to Operators and members of GSMA.

1. <http://www.w3.org/community/> [↑](#footnote-ref-1)