DID Resolution Spec First Draft Meeting Page

This page is for taking notes of weekly meetings held in 2019 of members of the W3C Credentials Community Group who are collaborating to complete the First Draft of the DID Resolution specification. Meeting notes are listed in reverse chronological order.

Note: This meeting directly follows the weekly DID Spec Community Final Draft Meeting.

Call Information

Time: Every Thursday, 14:00-15:00 PT (21:00-22:00 UTC)

https://zoom.us/j/7077077007

Or iPhone one-tap:
US: +16465588656,,7077077007# or +16699006833,,7077077007#

Or Telephone:
Dial (for higher quality, dial a number based on your current location):
US: +1 646 558 8656 or +1 669 900 6833
United Kingdom: +44 (0) 20 3051 2874 or +44 (0) 20 3695 0088
Meeting ID: 707 707 7007
International numbers available: https://zoom.us/u/q6mghCSZ

Links (Generally Useful to the Group)

- DID Spec
- DID Resolution Spec

Thursday 4 April 2019

Attending

1. Drummond Reed
2. Ken Ebert
3. Markus Sabadello
4. Jonathan Holt
5. Justin Richer
6. Adrian Gropper

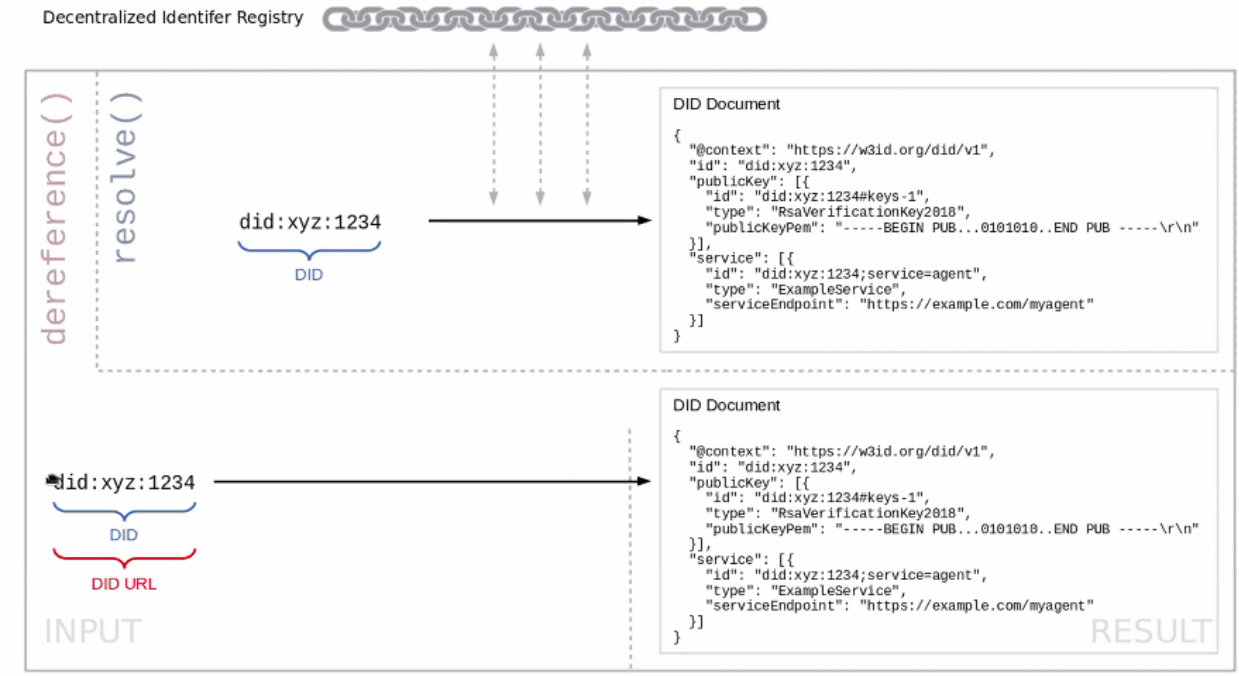
7. Chris Boscolo
8. Jane Wang
9. Victor Grey
10. 12032157874
11. Digital Bazaar (Manu Sporny)
12. Dmitri Zagidulin

Agenda

1. Current proposed DID ABNF grammars, and how identifiers are resolved/dereferenced.

Notes

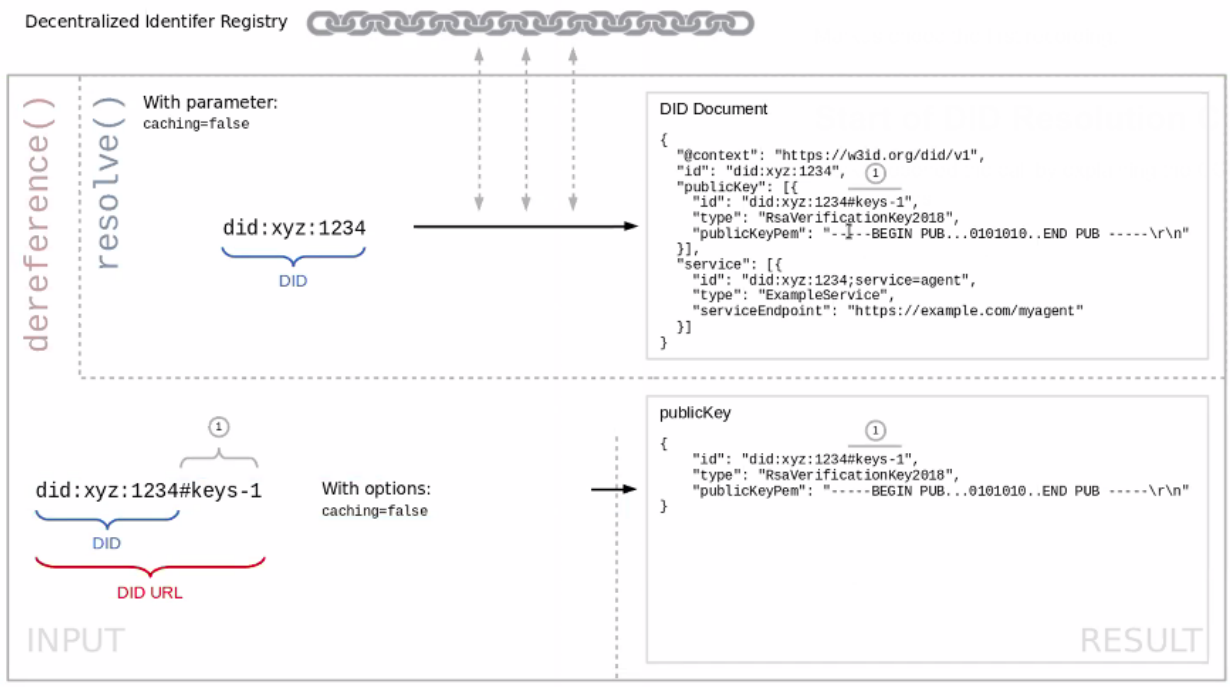
Markus opened the call by explaining the CCG rules. He then started showing some examples via diagrams.



We got into the semantic web question about what the bare DID identifies, i.e., does it identify Alice or does it identify a resource that describes Alice (the HTTP Range 14 problem).

Markus: We often see a pattern where we need two different identifiers—a URI and a URL, the former to abstractly identify the resource and the latter to identify the concrete representation.

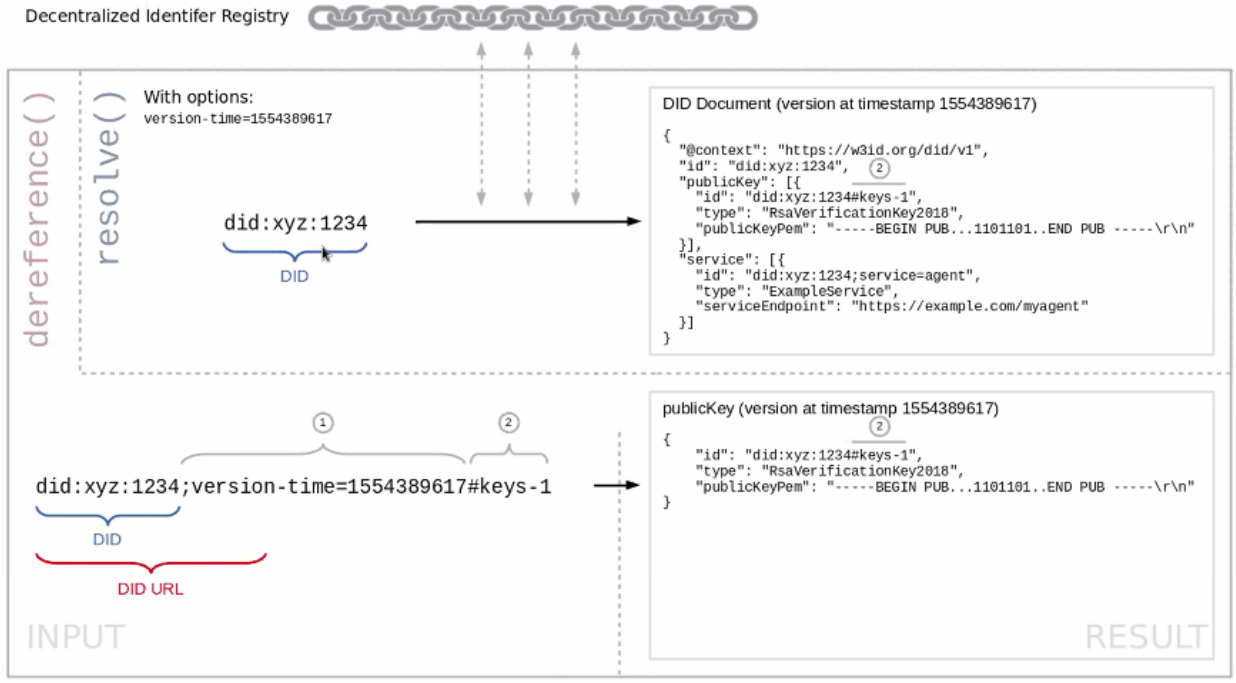
Markus next presented this slide;



Jonny: asked about just using a relative reference to a fragment.

Markus: clarified that the selection of elements in the DID document would be based on the ID element.

Dmitri said that the name of the service in the matrix parameter is all that should be in the ID property.



Markus next gave the example of using matrix parameters for addressing a version of a DID

document. The matrix parameter would be needed for addressing a specific version.

Next he showed this example:

```
Example DID URL that points to the "agent" service at time

did:xyz:1234;version-time=1554389617;service=agent/profile?query#frag
```

Chris and Dmitri both felt uncomfortable with combining these two parameters.

Markus explained that both parameters specify what resource is being identified.

Drummond: felt that it is consistent for the reason Markus mentioned.

Chris: wondered if the DID document should also contain DID document history.

Justin: That would be a lot of weight on DID documents to contain history. A lot of the problems with specification documents are the assumptions that developers make about what is being there.

Markus: Versioning is optional and not required of a DID method, but it would be ideal if it works across DID methods.

Drummond: It shouldn't be a reason to not support versioning if a method does not support it.

Dmitri: Was worried that version-based addressing would conflict with content-based addressing.

Markus: showed this example:

```
did:xyz:1234;version-time=1554389617;hashlink=hl:hashlink1

did:xyz:1234;version-time=1554389532;hashlink=hl:hashlink2
```

Dmitri: That example does answer his question.

Ken: sees the use case from potentially using both a version timestamp and include a hashlink (or other hash) for verification.

Drummond: suggested that the different stakeholders take some time in the interval before next week's call to express all the parameters they need in three formats;

1. all-colon-delimited
2. did ; colon-delimited
3. did + matrix parameters

Jonny: brought up the question of blockchains forking. How would the addressing work? Could it be addressed with a matrix parameter?

Everyone agreed their head was blown by that question.

Jonny and Chris both suggested that hashlink should be a standard DID spec-level parameter because it’s a universal way to address content independent of the underlying store.