

Identity Credentials at W3C



Is it time for a W3C Credentials Working Group?

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Subject Area and Terminology

FOR THE PURPOSES OF THIS PRESENTATION

Credential - the representation of a qualification, achievement, personal quality, or aspect of an entity's background, typically used to indicate suitability.

Synonyms: Verifiable entity attributes, attestations

Examples: driver's license, proof of age, loyalty card, shipping address, university degree, license to practice medicine, license to practice law, passport, etc.

Why:

How can credentials be used?

- Ensure that customers are who they say they are
- Prove education and qualifications when applying to jobs
- Auto-form fill for shipping address and other ecommerce personal info
- Automatically ensure regulatory compliance
- CPR certifications, diving certifications

Credentials Community Group

- Credentials CG work started in Web Payments CG
- Group founded by Accreditrust, ETS, Digital Bazaar, and Badge Alliance
- 67 members, weekly teleconferences, [open to the public](#)
- Pre-standards [specs](#) and implementations exist
- Pilot projects underway

Credential Use Cases Survey Questions

- What is your most compelling credentials business use case?
- What technologies do you use today for credentials?
- Do these technologies meet your needs?
- What capabilities do you need from a credentialing solution?

[\[Link to survey\]](#)

Responses to Survey

- 58 organizations surveyed, 44 responded (high response rate - 76%)
- **Payments:** Walmart, Target, Bloomberg, Ingenico, Rabobank, NACS, Connexus, ETA, Worldpay
- **Education:** ETS, Pearson, IMS Global, DCMI, Vital Source, Badge Alliance
- **Healthcare:** Verisys, New Zealand Government
- **Government / NGO:** US Federal Reserve Bank of Chicago, Dutch National Bank, Bill and Melinda Gates Foundation

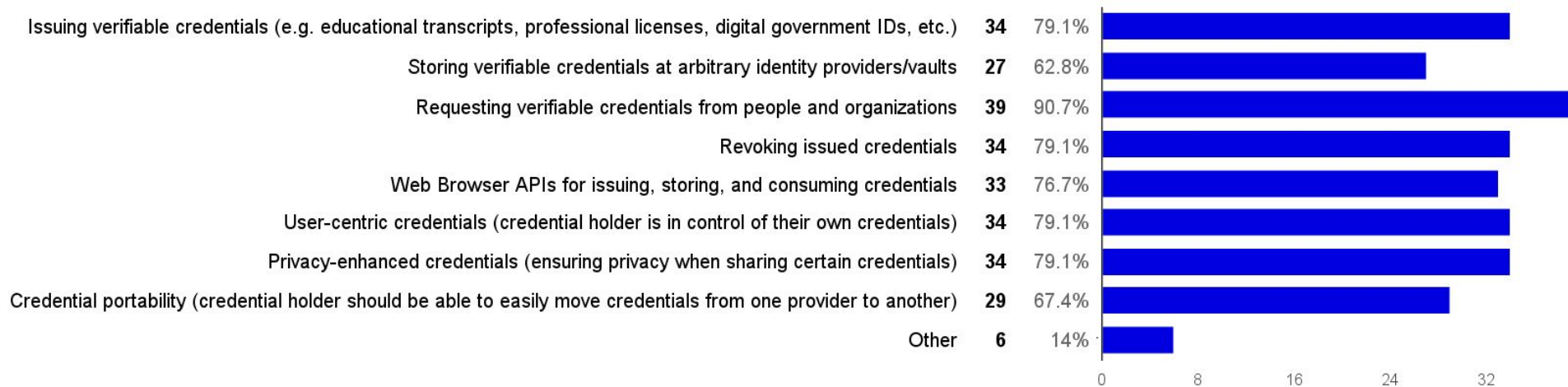
[\[Link to anonymized results\]](#)

Use Case Themes

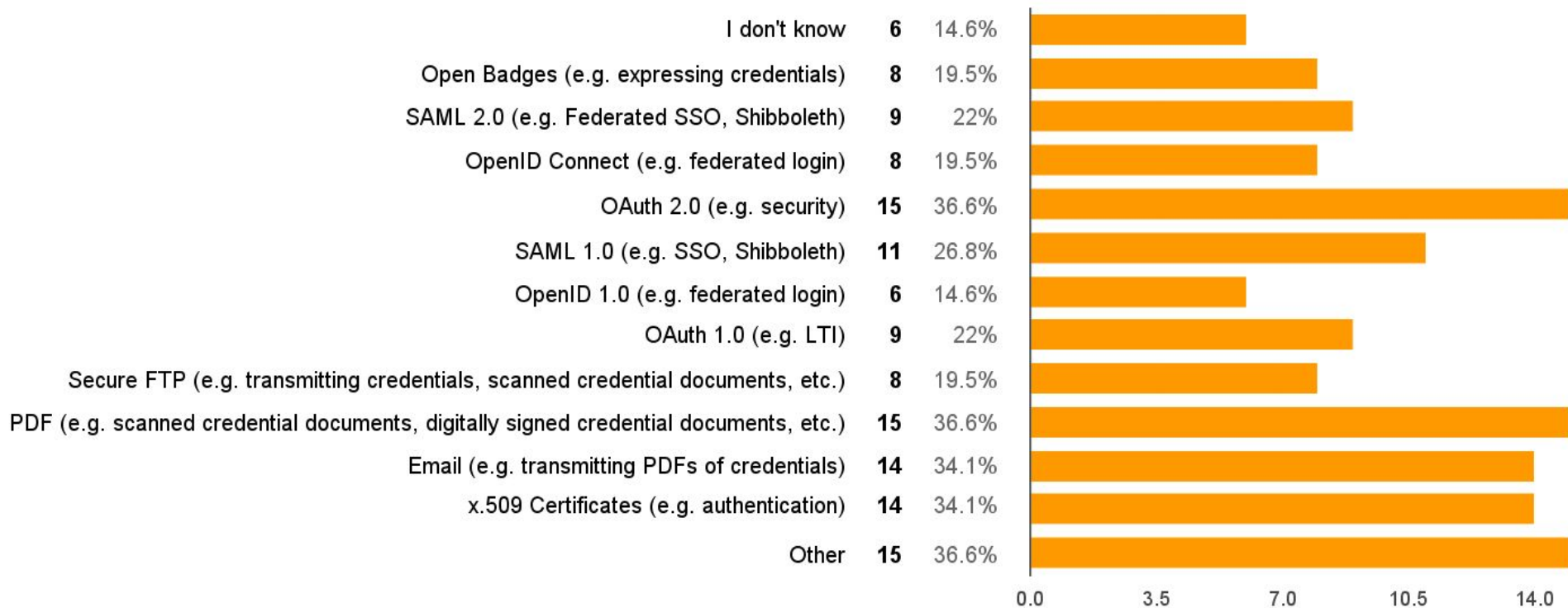
- Ensure applicant has proper education for position (degree, job training, ...)
- Ensure proper licensure and background checks (doctor, nurse, stock trader)
- Ensure automatic compliance with regulations (purchasing alcohol, controlled substances, drug sales to proper patient)
- Simplify checkout experience (collection of shipping address, phone number, ...)
- Automatic background check on customers before bank account creation

[\[Link to all submitted use cases\]](#)

Desirable Credential Capabilities Have Been Identified

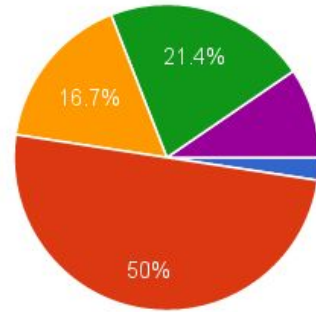


Wide Variety of Technologies in Use Today



Gaps Exist in Current Technology Solutions

	I don't know	9	21.4%
The technologies listed above DO NOT meet the credentialing needs of my organization.		7	16.7%
The technologies listed above meet some of my organizations credentialing needs, but not all of them		21	50%
The technologies listed above meet the credentialing needs of my organization.		1	2.4%
	Other	4	9.5%

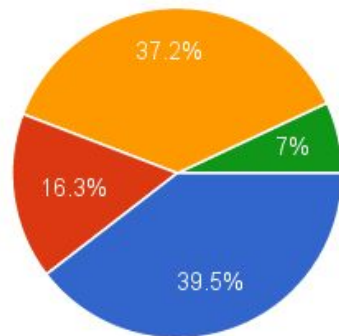


The Credentials Ecosystem

- Holders - receive credentials for use
 - Examples: Citizens, Students, Employees, Professionals, Customers
- Credential Issuers - issue credentials to holders
 - Examples: Universities, Department of Motor Vehicles, Passport Agencies, Retailers
- Identity Providers/Vaults - store credentials for holders
 - Examples: Social Network Websites, Banks, your personal server
- Credential Consumers - request credentials from holders
 - Examples: Universities, Employers, Banks, Healthcare Providers, Retailers

A Desire to Participate in Solving the Problem at W3C

Yes, and my organization is a W3C member	17	39.5%
Yes, and my organization would become a W3C member to do so	7	16.3%
Maybe, it depends on staff and funding availability for W3C membership	16	37.2%
No, we do not have the available staff or funding to participate in standards work at W3C	3	7%



Discussion and Next Steps

- What else is needed to get this work started at W3C?
- Who in the room would support this work at W3C?
- What would it take to get an IG started?