

Identidade em Movimento: Relato do Internet Identity Workshop

Frederico Schardong

Sobre o IIW

- Evento semestral iniciou em 2005;
- Formato unconference;
- Proceedings públicos desde 2008;
 - <https://internetidentityworkshop.com/>



IIW 41 Fall 2025

- 284 participantes
 - Desenvolvedores de grandes e pequenas empresas;
 - Consultores;
 - Reguladores;
 - Vendedores;
 - Pesquisadores;
 - Médicos; ONU; congressistas; outros.
- 149 sessões
- Caótico!

IIW 41 Fall 2025



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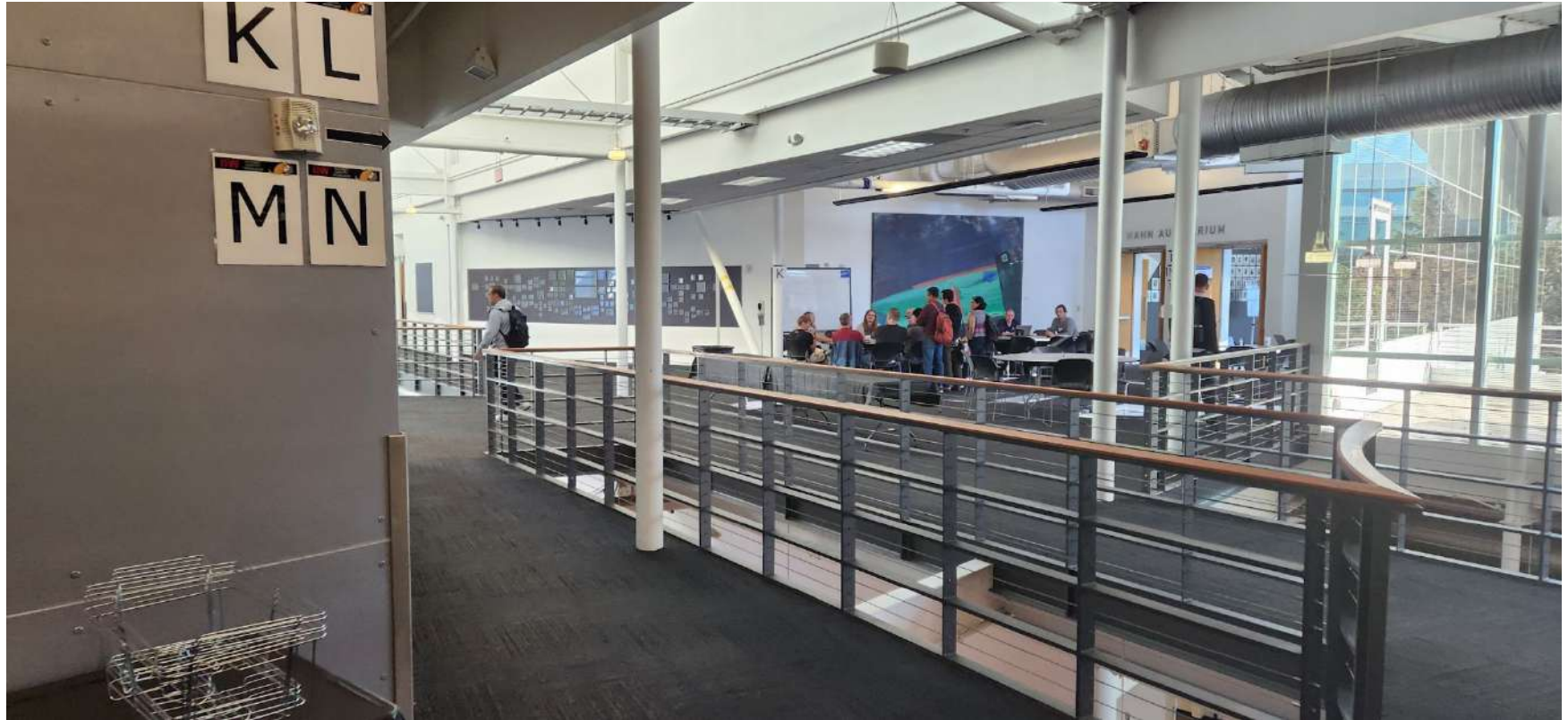
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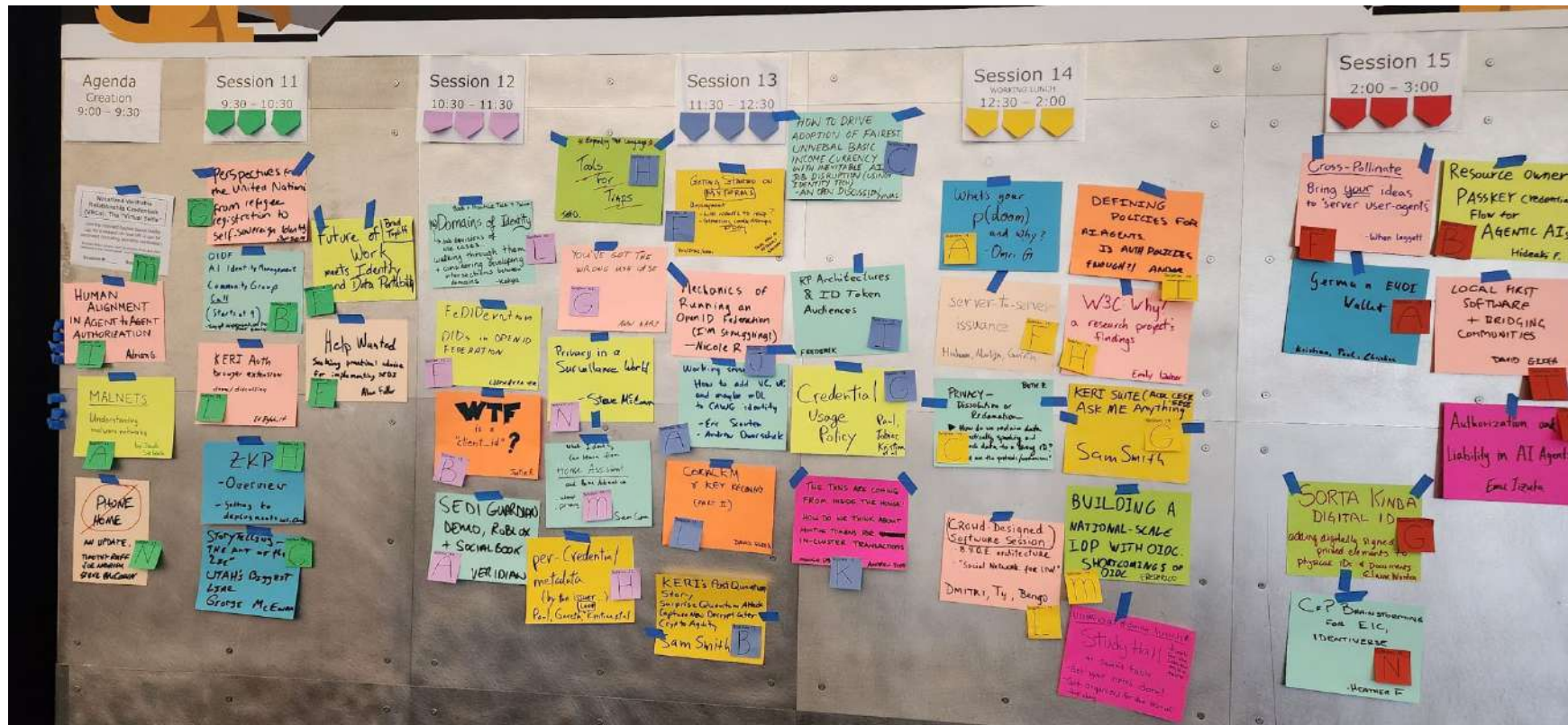
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Agenda
Creation
9:00 - 9:30

Session 11
9:30 - 10:30

Session 12
10:30 - 11:30

Session 13
11:30 - 12:30

Session 14
WORKING LUNCH
12:30 - 2:00

Session 15
2:00 - 3:00

Agenda Topics:

- National Security Operations: The Virtual Table
- HUMAN ALIGNMENT IN AGENT-AGENT AUTHORIZATION
- MALNETS
- PHONE HOME
- AN UPDATE: THE ART OF THE "Z"
- UTAH'S Biggest Issue
- George McEwan

Session 11 Topics:

- Perspectives on the United Nations from refugee registration to self-sovereign identity
- AI Ident. Management Community Group
- KERT Auth for longer extension
- ZKP - Overview
- Storytelling: THE ART OF THE "Z"
- UTAH'S Biggest Issue
- George McEwan

Session 12 Topics:

- Future of ID and Work meets Identity and Data Portability
- Help Wanted
- WTF "Ident-Id"?
- SEDI GUARDIAN DEMO, ROBOK + SOCIALBOOK
- VERIDIAN
- per-Credential metadata
- KERT's Best Question
- Sam Smith

Session 13 Topics:

- HOW TO DRIVE ADOPTION OF FAIRER UNBANKED BASIC INCOME CURRENCY WITH RENTABLE AI
- RP Architectures & ID Token Audiences
- Credential Usage Policy
- THE TONS ARE COMING FROM INSIDE THE HOUSE
- Cloud-Designed Software Session
- DMITRI, Ty, Bengo

Session 14 Topics:

- What's your (p)latoon and why?
- server-to-server insurance
- PRIVACY - Dissolution or Reformation
- KERT SUITE (ASK ME ANYTHING)
- Sam Smith
- BUILDING A NATIONAL-SCALE IOP WITH OIOL**
- SHOOTING ON OIOL
- Study Hall

Session 15 Topics:

- Cross-Pollinate
- Resource Owner
- LOCAL FIRST SOFTWARE + BRIDGING COMMUNITIES
- Authorization and Liability in AI Agents
- SORTA KINDA DIGITAL ID
- C&P Deconstructing for EIC, IDENTIVERSE

Apresentação

Internet Identity Workshop IIWXL I #41 2025B

Building a National-Scale IdP

Shortcomings of OIDC



BRENDON VICENTE R. SILVA
FREDERICO SCHARDONG, PhD
RICARDO F. CUSTÓDIO, PhD

Apresentação

PROBLEM STATEMENT #1

Where Standards Fall Short #1

→ Standards¹ define two kinds of **Level of Assurance (LoA)**:

- **Identity Assurance Level (IAL)**: strength of identity proofing during registration;
- **Authenticator Assurance Level (AAL)**: reflects the authentication process.

→ OIDC Core exposes only one mechanism to represent the level of assurance;

- The **Authentication Context Reference (acr)** claim.

Apresentação

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Apresentação

PROBLEM STATEMENT #2

Authentication Methods References

→ *Authentication Methods References (amr)...*

→ A claim defined in OIDC to indicate the authentication factors employed by the user. →

→ Purely **enumerative**, with **no semantics**.

```
1 {  
2   "exp": 1756765376,  
3   "iat": 1756765076,  
4   "auth_time": 1756765076,  
5   "acr": "substantial",  
6   "amr": [ "sms", "pwd" ],  
7   "jti": "0c23f70e-5089-4246-98fc-288819b3dd50",  
8   "iss": "issuer.com",  
9   "aud": "account",  
10  "sub": "c213cced-4d5f-4542-8c54-817e4a09a353",  
11  "typ": "Bearer",  
12  "azp": "account-console",  
13  "nonce": "6f7dbfb3-37b9-4114-9e79-bcbcb7f5dfc4",  
14  "session_state":  
    "6752fc7e-6ec9-4c2b-a3ca-e6a8bc6bc81c",  
15  "scope": "openid",  
16  "sid": "6752fc7e-6ec9-4c2b-a3ca-e6a8bc6bc81c"  
17 }
```

Apresentação

PROBLEM STATEMENT #2

Authentication Methods References

→ Contextual information is lost:

- Which Identity Provider validated each factor?
- What is the LoA associated with each method?
- When was each factor validated?
- Which password policy was used?

```
1 {  
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```

Apresentação

- Apenas 3 pessoas participaram!
 - 1 membro da OpenID Foundation + 1 desenvolvedor da Auth0 + 1 estudante;
 - Provavelmente a apresentação com mais contribuições que já fiz;
 - Feedback construtivo, positivo e encorajador para criar uma norma técnica;

Outras apresentações

- GID Agêntica:
 - “OAuth for MCP”, “KYAPAY - A Protocol for Agent Identity and Commerce”, “My Private AI Agent as Authorization Server”, “Building trustworthy AI / MCP ecosystem”, ...;
- State Endorsed Digital Identity (SEDI);
- Identity of Commons -> MyTerms:
 - IEEE P7012: Machine Readable Personal Privacy Terms;
- Tools for Traps -> HumanOS:
 - Identidade digital é constantemente criada e observada;
 - Metáforas com armadilhas e exploração espacial...

Futuro

- IIW LATAM;
 - SBGID + IIW?

Obrigado!