

A nighttime photograph of a city street with light trails from cars and buildings in the background. The scene is illuminated by streetlights and building lights, creating a vibrant urban atmosphere.

Types of Credentials Portable via Velocity Network

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Rick Barfoot *rick.barfoot@joynd.io*

Standards Committee Chair & Joynd COO

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Agenda

- Standards Committee Overview
- High-level concept of Layer 1 / Layer 2
- Current v1.1 schemas

Standards Committee – Welcome!

- Brief background
- Open participation for all Velocity members – this is *your* forum!
- Bring forward your requests for changes and additions

The Two Layer Credential Architecture



Layer 1 – the Interoperability Layer - REQUIRED

Have limited schemas that describe a single achievement in JSON-LD. Layer 1 credentials are interoperable across geographies and clusters. Based on schema.org



Layer 2 – the Content Rich or Innovation Layer - OPTIONAL

Are any other kind of credential. All types can be used on the Velocity Network. Examples of Layer 2 are the HR Open Standard, CLR, Europass or even PDFs. Layer 2 credentials are typically for use within clusters to enable rich user experience and/or advanced inspector use cases. **Layer 2 permits members to become innovators.**

Layer 1

- Layer 1 is mandated to provide interoperability for every career credential issued on the Velocity Network.
- Avoided inventing something completely new!
 - Primary source has been **schema.org**, with critical elements supplied using **Credential Engine's CTDL & IMS Global's OBI**.
- All Layer 1 credentials are can be semantically **aligned** to web-based metadata such as Credential Engine's Credential Registry.

What are the Layer 1 Credentials?

- **ID Document**
E.g., Driver's license, passport, ID card
- **Employment-Current & Employment-Past**
- **Degree-Registration, Degree-Study & Degree-Graduation**
- **Course-Registration, Course-Attendance & Course-Completion**
Academic courses, professional and on-job training courses
- **License & Certification**
- **Assessment**
- **Badge**

Layer 1 Building Blocks

- Place
- Address
- Organization
- Person
- Score
- Alignment

Layer 2

- Layer 2 can be anything: CLR, PESC, HR Open or even bespoke formats
- Supports JSON, XML, PDF, JPEGS, etc.
- Must be related to at least one Layer 1 credential
- This mapping is to be done by the operator who permits the issuance of the credential type.
- The aim is for the foundation to maintain a community sourced set of open source mappers for most popular Layer 2 schemas.
- Layer 2 credentials are accepted as is. Data quality isn't enforced by the network.
- No rewards are given for Layer 2

Data Standardization - Layers

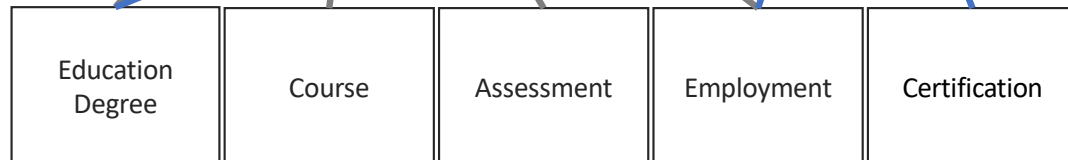
Layer 2

Cluster Specific Aggregations
Content rich Optional
Unregulated Unrewarded
JSON, XML, PDF, etc



Layer 1

Interoperable Singular Achievements
Limited Required
Regulated Rewarded
JSON only



How will Inspectors request credentials to be disclosed?

Most inspectors will want to use layer 1 as it's the least amount of effort

For inspectors that would like to receive layer 2 credential types they can either request disclosure of

- Layer 2 with Layer 1 alternatives. The holder can choose which ones to share.
- Layer 2 only thereby rejecting holders that do not hold the required Layer 2 credential type

Where to Find Layer 1 Schemas

<https://www.velocitynetwork.foundation/main/basics-credential-types>



Layer 1 Schema Documentation

The image shows a web application interface for the Velocity Standards Committee. On the left is a navigation sidebar with a search bar and several menu items. The 'Standards Committee' item is highlighted with a yellow box and an arrow pointing to the main content area. The main content area features a sidebar menu for 'CREDENTIAL TYPES' with 'Education Degree Graduation' selected. The main content displays the schema for 'Education degree graduation', including fields like 'registrationDate', 'startDate', 'endDate', 'conferredDate', and 'grade'. The 'grade' field is expanded to show a 'Simplified context for Velocity Publishers to Use' with several 'Examples' of JSON objects. A right-hand pane shows the 'Example: default' JSON object.

Navigation Sidebar:

- Search
- Home
- Agent Services API
For configuring a Credential Agent
- Business Documentation
Fixing the broken data layer underlying t...
- Developer Documentation
Build new and innovative products and s...
- Push Gateway API
VNF Push Gateway Protocol
- Registrar API
Registrar APIs
- Standards Committee
Repository of the Standards Committee**
- Vendor webhooks
Webhooks vendors must implement

CREDENTIAL TYPES Sidebar:

- V1.1
 - Assessments
 - Certifications and Licenses
 - Courses
 - Education Degrees
 - Education Degree Registration
 - Education Degree Attendance
 - Education Degree Graduation**
 - Employment Roles
 - Badges
 - Alignment
 - Organization
 - Person name
 - Place
 - Score
 - Validity
 - Level 1 Json-LD Context
- V1.0
 - Assessments
- Sign in

Education degree graduation Schema:

- registrationDate string
- startDate string
- endDate string
- conferredDate string **required**
- grade Score
 - Simplified context for Velocity Publishers to Use
 - Examples:
 - `{ "scoreMethod": {"scoreMethodDescription": "GPA", "passingScore": "0.7"}, "scoreValue": "3.9", "result": "Distinction", "passFail": "Pass" }`
 - `{ "scoreMethod": {"scoreMethodDescription": "0-100 range", "passingScore": "80"}, "scoreValue": "55", "result": "Poor", "passFail": "Fail" }`
 - `{ "scoreMethod": {"scoreMethodDescription": "Korn Ferry global norm 2018. Norm size: 25,000. Score range 1-10. ", "scoreMethodType": "NormReferenced"}, "scoreValue": "7.2" }`
 - `{ "scoreMethod": {"scoreMethodDescription": "All answers should be correct", "scoreMethodType": "CriterionReferenced"}, "result": "Normal color vision", "passFail": "Pass" }`
 - `{ "@context": "string" }`

Example: default JSON:

```
1 {
2   "@context": "https://velocitynetwork.foundation/standards/1.0/credentials/education-degree-graduation",
3   "institution": {
4     "name": "XYZ University",
5     "identifier": "did:web:www.xyzuniversity.edu",
6     "place": {
7       "addressLocality": "Chicago",
8       "addressRegion": "US-IL",
9       "addressCountry": "US"
10    }
11  },
12  "school": {
13    "name": "School of nursing",
14    "place": {
15      "name": "Florida Branch",
16      "addressLocality": "Fort Myers",
17      "addressRegion": "US-FL",
18      "addressCountry": "US"
19    }
20  },
21  "programName": "RN to BSN",
22  "programType": "1 year full time program",
23  "programMode": "Online",
24  "degreeName": "Bachelor of Science",
25  "degreeMajor": [
26    "Nursing"
27  ]
28 }
```

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Thanks!

Rick Barfoot

rick.barfoot@joynd.io

[*https://www.linkedin.com/in/rickbarfoot/*](https://www.linkedin.com/in/rickbarfoot/)