Credential Engine
Benefits and Opportunities for Federal Agencies

May 15, 2017
Transparency through Technology

- Develop common terms (Credential Transparency Description Language - CTDL) to describe key features of:
  - Credentials
  - Credentialing organizations
  - Quality assurance (QA) bodies

- Create & populate voluntary, web-based credential registry with credential issuers and QA bodies

- Bring the registry to scale under non-profit governance

- Develop, test, & deploy prototype search app to facilitate use of the registry by stakeholders

- Foster competitive app marketplace

Credential registry, descriptors, and applications are open-source.
Credentials Addressed by Credential Engine

Registry Includes All Kinds of Credentials, Credentialing Organizations, and Quality Assurance Bodies
# Credential Transparency Description Language (CTDL)

## Declaring Name, Purpose, Type of Credential and Credentialing Organization
- Credentialing organization identification
- Credential organization type
- Credential identification
- Credential type
- Purpose of credential
- Where credentialing is offered
- Jurisdiction

## Declaring What Is Inside the Credential
- Credentialing eligibility requirements
- Competencies/learning outcomes required to attain credential
- Assessments required to attain credential
- Education and training for the credential
- Time required to attain credential
- Credentialing costs
- Maintaining credential
- Credential removal
- Credential holder authentication
- Version management
- Employer engagement

## Declaring Other Key Characteristics and Connections
- Primary scope of application: subject/discipline area
- Primary scope of application: career preparation and advancement
- Role of occupational regulation and licensing
- Geographic portability of credential use
- Connections to other credentials
- *Career Pathway Connections*
- External quality assurances
- Employer recognition
- *Number and characteristics of credential holders*
- *Employment and earnings of credential holders*

*Italicized descriptors are not yet in use*
Profile of Current Registry Participants

Participant Organizations (April 2017)

99 total participants
13 Private Colleges & Universities
4 For Profit Colleges & Universities
10 Public Colleges & Universities
17 Community Colleges
36 Industry Certification Bodies
9 Industry Certificate Granting Institutions
5 Quality Assurance Organizations
5 Other
Benefits to Participants

- Gain greater visibility to vast market of students, employers, others.
- Demonstrate commitment to credential and QA transparency.
- Be at forefront of groundbreaking technology effort driving new credentialing ecosystem.
- Receive suite of services beneficial to short—and long-term technology planning, including:
  - technical and non-technical materials
  - information about Web 3.0 technologies
  - roadmap document showing where they are now and what steps can be taken to enable W3C vision for Linked Data
- Influence initiative by providing feedback throughout the process.
Example Stakeholder Relationships

Credentialing Organizations
- Certification Bodies
- Community Colleges
- Licensing Bodies
- Universities

Credential Registry
- Offer credentials & learning opportunities.
- Require or prefer competencies & credentials.
- Accredit, approve, endorse, recognize credentials and/or credentialing organizations.

Quality Assurance Entities
- ANSI
- National Accreditors
- Regional Accreditors
- Specialized/Professional Accreditors
- State Agencies

Employers / Industry
- Companies
- Industry Associations
- Regional Collaboratives

Apps
- Employers
- Job Seekers
- Students
How it Works Now

Credential Transparency Description Language (CTDL) – Metadata Infrastructure

CTDL Editor – Converts Partner’s credential and quality assurance information to CTDL and publishes it to the Registry.

Credential Engine Registry – Set of services and Registry.

Credential Finder Prototype App – Basic search to demonstrate, review, and get feedback.

Partners – Review, provide feedback, fill gaps.

Make updates.
Moving from Pilot Sandbox to Live

Pushing
Credentialing organization pushes their CTDL descriptions to the *Credential Registry.*

Pulling
The *Credential Registry* pulls (harvests) the data from the credentialing organization either as page markup or as records.

Manual
- CTDL Editor
  - Small Quantity
  - Stable

Automated
- Roadmap Guidelines
  - Large Quantity
  - Dynamic

http://credreg.net/registry
Workit™ Search App Prototype

- Participants view information about the small number of credentials they have selected for testing on the registry in the context of an app.
- Shows the credential information from the Registry.
- Provides context for understanding the Credential Transparency Description Language (CTDL) and why it’s important to have transparent and comparable credential information.
- Requires a password.
Benefits and Opportunities for Federal Agencies

✓ Become pilot partner
  • Publish one or more credentials on the registry.
  • Participate in technical webinars about Web 3.0 technologies

✓ Application Use and Development
  • Use Workit search app to find information on credentials for recruitment and hiring
  • Develop federal agency directories and other applications

✓ Provide input on CE development to meet federal agency needs
Contact Information

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- **Technical Planning Microsite:** [www.credreg.net/](http://www.credreg.net/)