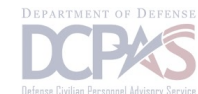


Enterprise Course Catalog: 2021 Demo #1 and Open House

26 JAN 2021

Brent Smith, Ashley Howell (ADL Initiative), Eric Flamer (Deloitte), Matt Drayer (edX)



Agenda

- (1) Overview of the **Enterprise Course Catalog (ECC)**
- (2) Introduction to the **Learning Activity Metadata Standard**
- (3) Overview and demo on current **Project Development**
- (4) Q&A

PART 1: SYSTEM OVERVIEW

Enterprise Course Catalog

This section gives an overview of the Enterprise Course Catalog project, including the rationale, the vision, and initial research and development.

Challenges:



Time Loss



Duplications (Cost)



Missed Opportunities

Solution: A portal to combine all of the local course catalogs across the DoD into a single searchable directory for greater accessibility at the time and place of need



The "What"

Enterprise Course Catalog Portal

DoD Course Catalog

This catalog lets you search for all DoD unclassified training and education courses, seminars, instructional resources and more.

[Advanced Search](#)

Popular



SPAWAR Introduction to the Navy Risk Management Framework (RMF) Course: 101

Navy
Casselberry FL
O1-3

★★★★☆ (23)

[VIEW REQUIREMENTS](#)



SPAWAR Risk Management Framework (RMF) Risk Assessor Course: SCA - 201

Navy
Portsmouth VA
E3-5

★★★★★ (21)

[VIEW REQUIREMENTS](#)



Ethics at the Operational Level

Navy
Portsmouth VA
O2-4

★★★★☆ (18)

[ONLINE: APPLY NOW](#)



CSRS Pre-Retire Planning

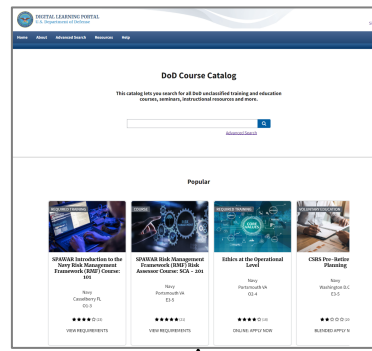
Navy
Washington D.C
E3-5

★★☆☆☆ (20)

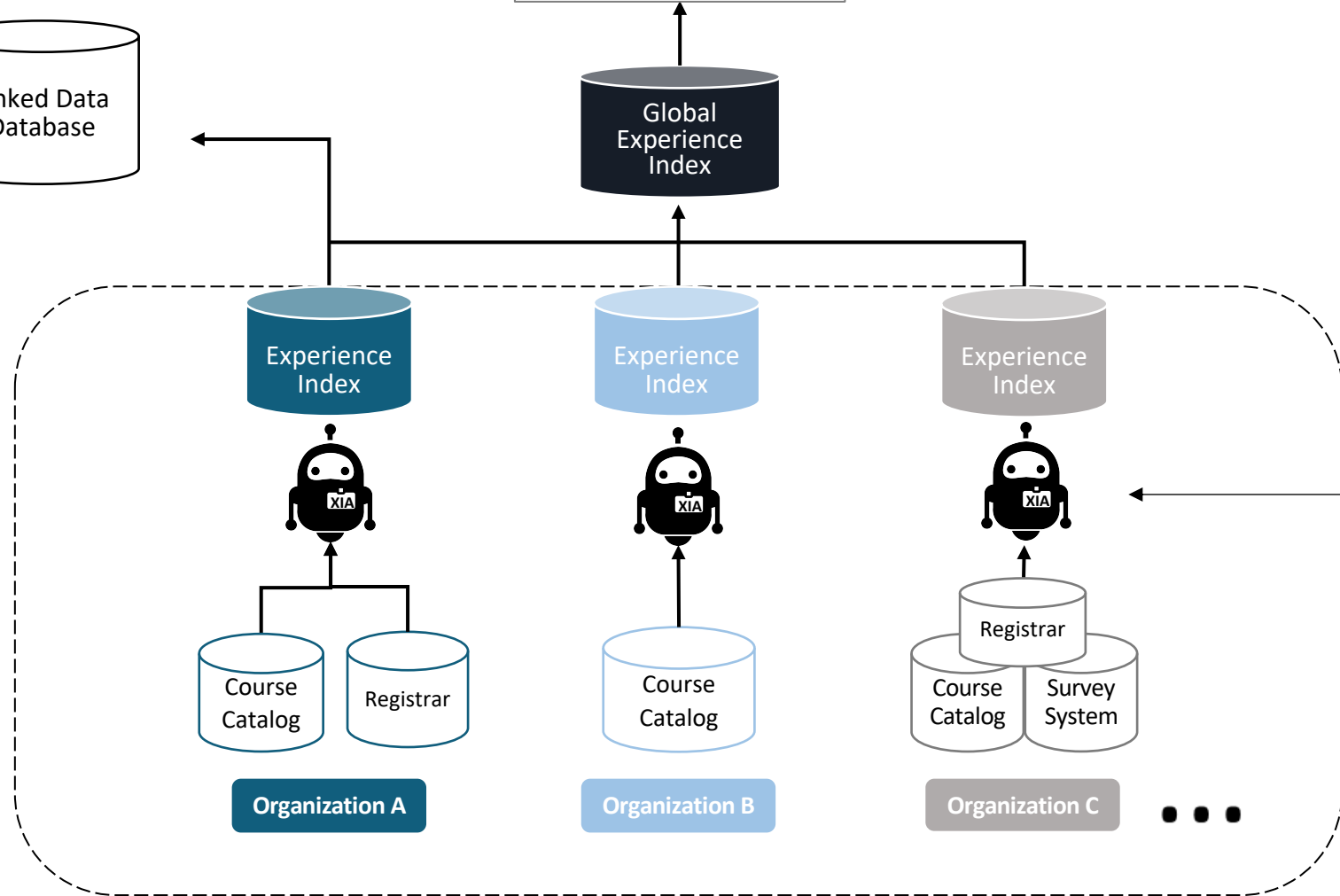
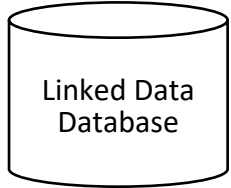
[BLENDED APPLY N](#)

“The How”

Enterprise Course Catalog Portal to discover course catalog information that exists across the DoD in once place.



Linked Data for course information definitions, competencies, and credentials.



Experience Index Agents (XIA) scrape existing catalog repositories to populate the experience indices with information that describes courses and activities

Organizational level

PART 2: ECC STANDARD

IEEE P2881 Learning Activity Metadata Standard

This section gives an overview on IEEE's P2881 standard; a key component in achieving enterprise-wide interoperability.

Course Catalog Sample Mapping

Original Data Format			Schema
NETC	AETC	DAU	
Agency/Organization	Organization_Code	Agency/Org	maintainer
Course Provider	title	SOURCE/VENDOR	provider
Course_Title	[NOT INCLUDED]	Course Name	about
Course_Description	Paragraph_Text	COURSE DESCRIPTION	abstract
[NOT INCLUDED]	BCI_ID	Course ID #	courseCode
[NOT INCLUDED]	[NOT INCLUDED]	ITEM TYPE	additionalType
[NOT INCLUDED]	[NOT INCLUDED]	DELIVERY METHOD	encodingFormat

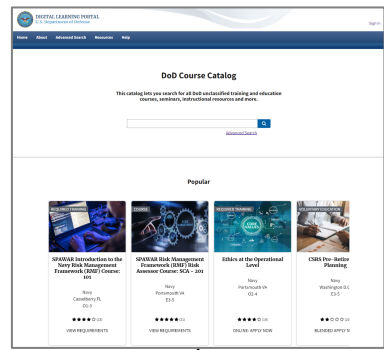
IEEE P2881 Learning Activity Metadata Standard

- General Information
 - *Name, Type, Description, LRS Endpoint*
- Lifecycle Information
 - *Version, Publisher, Accredited by*
- Technical Information
 - *Requirements, Device ID, Sensors, Biometrics*
- Learning Content
 - *Type, Description, Engagement Type*
- Learning Activity
 - *Type, Description, Interaction Mode*
- Course
 - *Title, Subject, Course Number*
- Rights
 - *License, Restrictions, Distribution*
- Alignment
 - *Educational Alignment, Educational Use*
- Relationship
 - *Type, Competencies, Equipment*

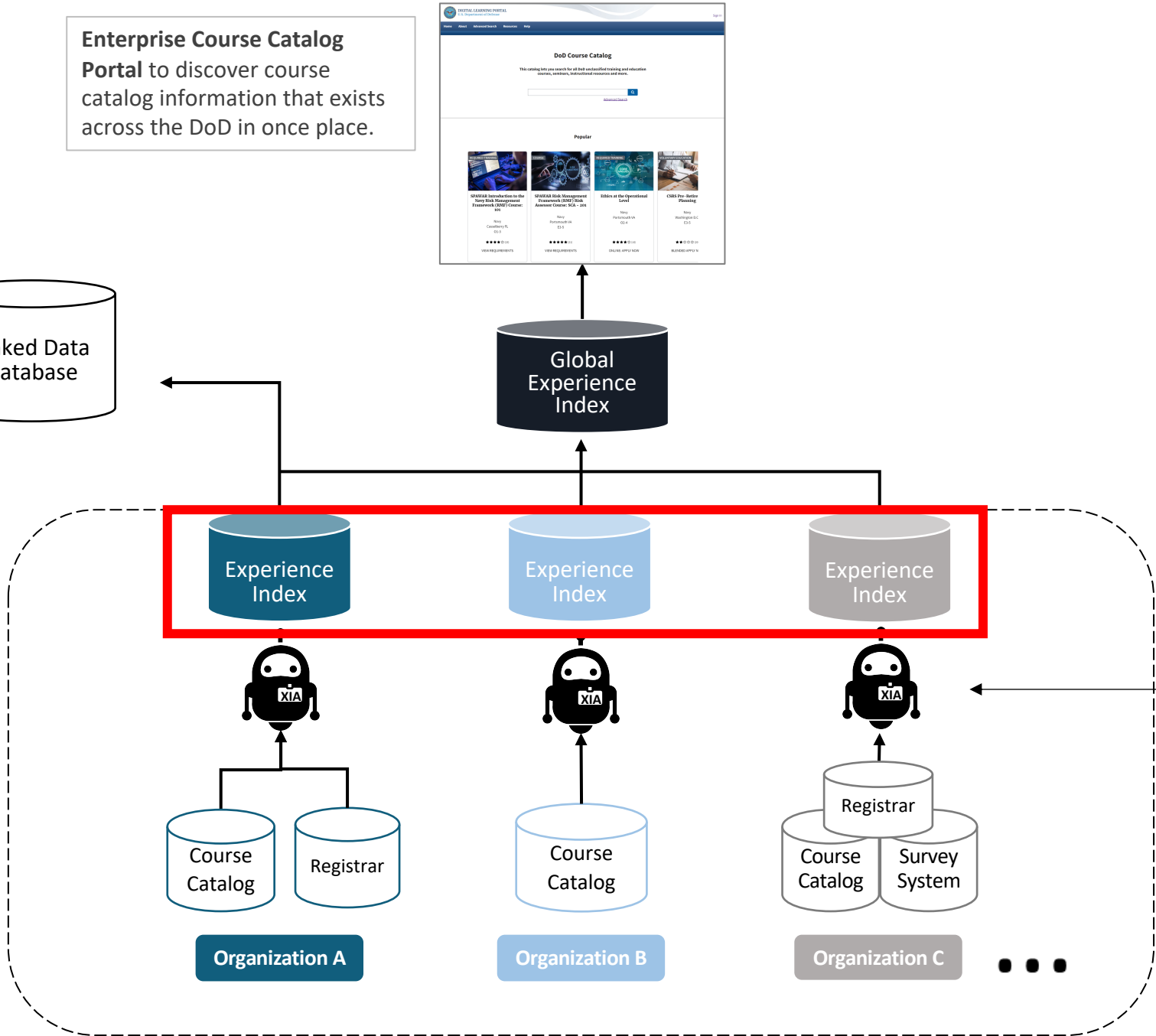
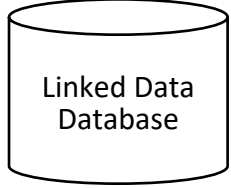


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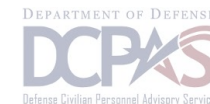
PART 3: ECC Project Development

Project Development and Experience Index Agent Demo

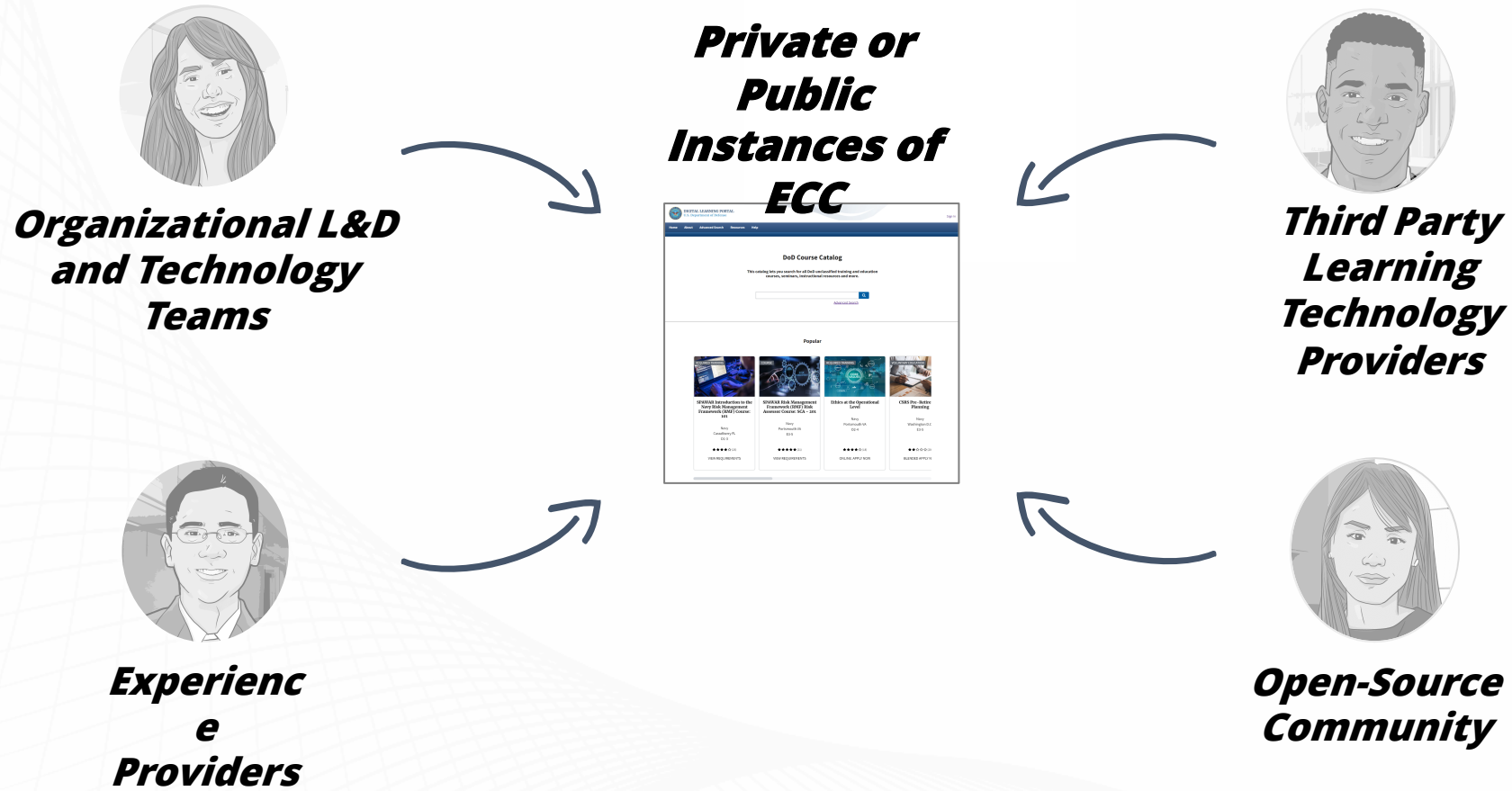
This section introduces the ECC Prototype and demonstrates current development progress on automated metadata services for capturing information about learning experiences from different organizations.

FY20-FY21 ECC Prototype Development

- Deloitte and edX commenced development of a new ECC operational capability in September 2020.
- The technology, powered in-part by open source search and analytics engine Elasticsearch, facilitates alignment of learning experience metadata across organizations, and improves discoverability of indexed learning experiences.
- Local course catalogs are gathered from ECC Integrated Product Team organizations into a single searchable directory **for greater accessibility at the time and place of need.**
- The metadata can also be used to align learning activities and content with **standardized data on careers, competencies, and credentials.**



The ECC solution provides adoption opportunities for all traditional course catalog stakeholders



The ECC solution will account for multiple personas across learner and non-learner use cases

Experience Owner



- Responsible for ensuring that each learning experience record is valid and available from each source repository.
- Can potentially be the same person as the Experience Manager.

Experience Manager



- Responsible for modifying and/or augmenting learning experience records with supplemental information within the system.
- Responsible for post-collection modification and/or maintaining the metadata for a one or more experiences.

Experience Facilitator



- Responsible for shepherding, stewarding, mentoring, instructing, and/or teaching a Consumer as they work through a learning experience.

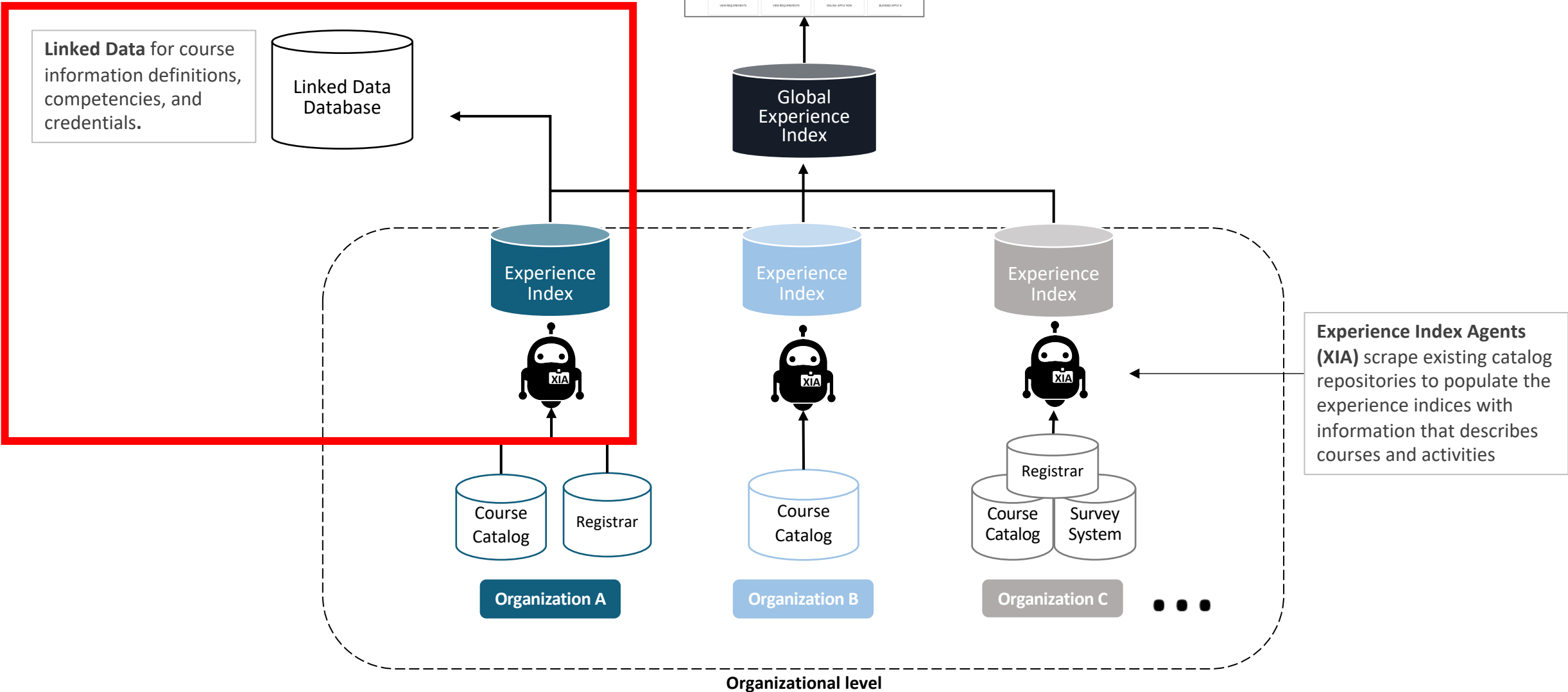
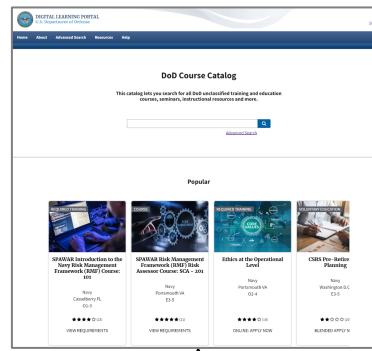
Experience Consumer



- Responsible for discovering, accessing, and taking part in the available learning experiences presented by the system.
- The beneficiary of the new knowledge and/or skills gained by working through the activity set of a particular learning experience.

“The How”

Enterprise Course Catalog Portal to discover course catalog information that exists across the DoD in once place.



ECC Prototype Next Steps

- ECC progressive development demonstrations
 - **March, May, July, September 2021**
 - Email: eflamer@deloitte.com
- Prototype Release Candidate and Beta Testing
 - Anticipated start: **June 2021**
 - Email: Ashley.Howell.ctr@adlnet.gov and Brent.Smith.ctr@adlnet.gov
- IEEE P2881 Learning Activity Metadata Standard Working Group
 - Ongoing
 - Email: Andy.Johnson.ctr@adlnet.gov



Questions?

