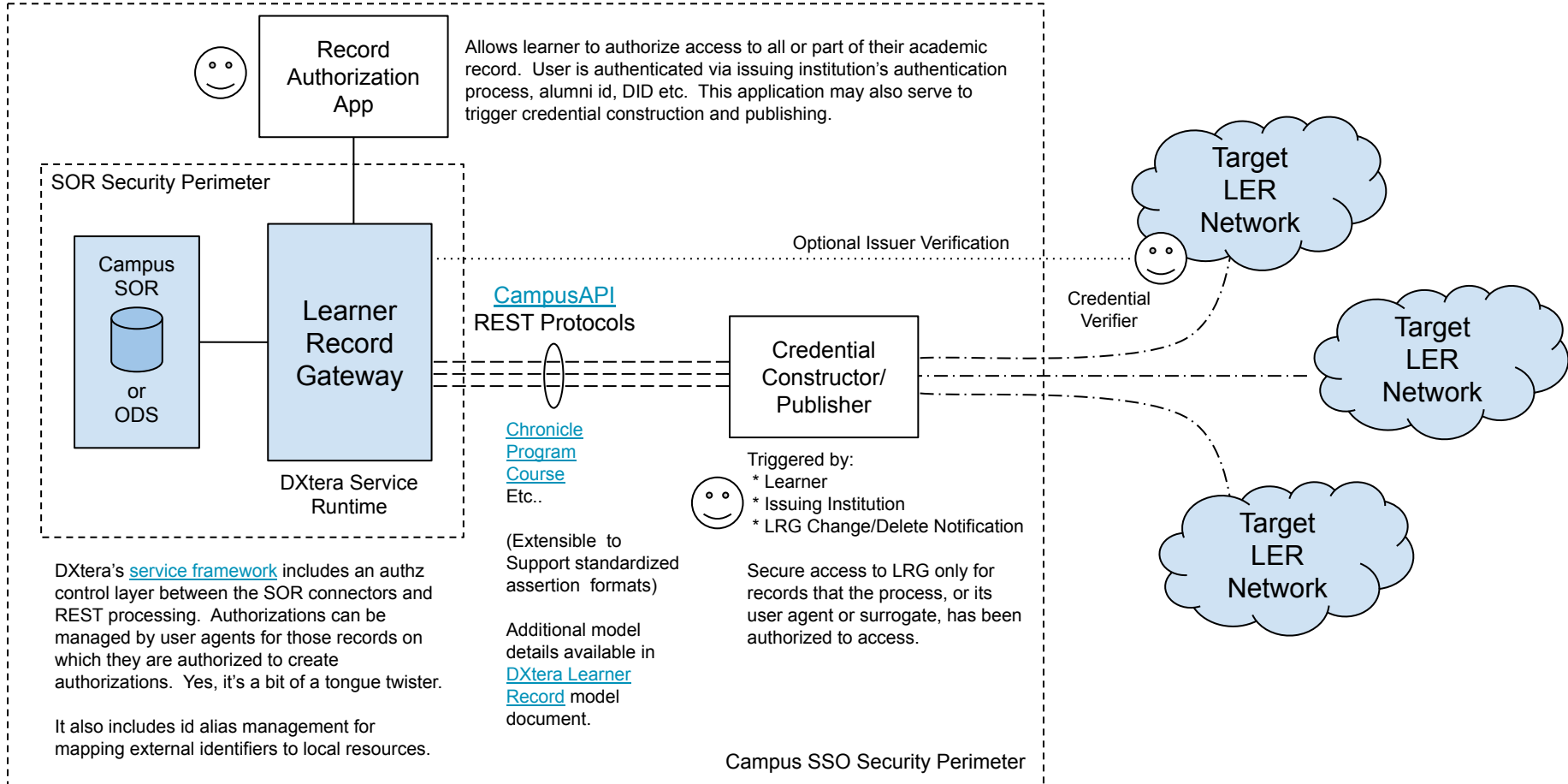# Learner Record Gateway Project
Jeff Merriman (merriman@dxtera.org)

DXtera Institute Priority Areas
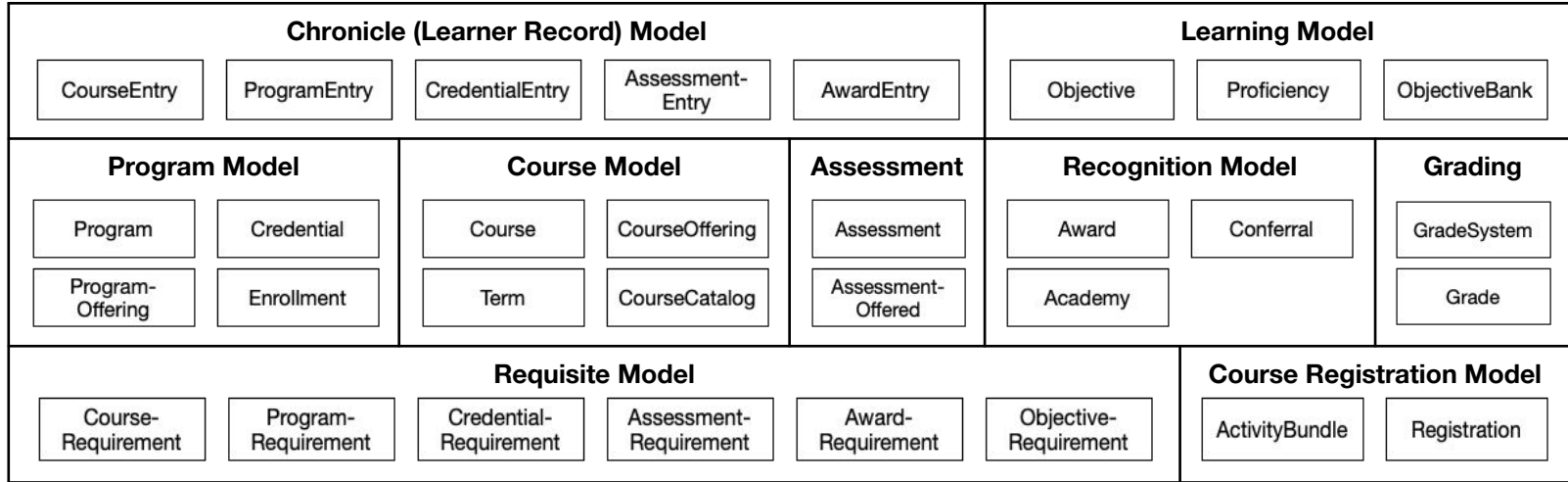
- Next Generation Education Systems

- Data Management Solutions

- Integration Solutions

Learner Record Gateway (The First Mile)

Record Authorization App

Allows learner to authorize access to all or part of their academic record. User is authenticated via issuing institution's authentication process, alumni id, DID etc. This application may also serve to trigger credential construction and publishing.

SOR Security Perimeter

Campus SOR

or ODS

Learner Record Gateway

DXtera Service Runtime

CampusAPI
REST Protocols

Chronicle
Program
Course
Etc..

(Extensible to Support standardized assertion formats)

Additional model details available in DXtera Learner Record model document.

Credential Constructor/ Publisher

Triggered by:
* Learner
* Issuing Institution
* LRG Change/Delete Notification

Secure access to LRG only for records that the process, or its user agent or surrogate, has been authorized to access.

Optional Issuer Verification

Credential Verifier

Target LER Network

Target LER Network

Target LER Network

DXtera's service framework includes an authz control layer between the SOR connectors and REST processing. Authorizations can be managed by user agents for those records on which they are authorized to create authorizations. Yes, it's a bit of a tongue twister.

It also includes id alias management for mapping external identifiers to local resources.

Campus SSO Security Perimeter

Learner Record and Related Models

Chronicle (Learner Record) Model					Learning Model		
CourseEntry	ProgramEntry	CredentialEntry	Assessment-Entry	AwardEntry	Objective	Proficiency	ObjectiveBank

Program Model		Course Model		Assessment	Recognition Model		Grading
Program	Credential	Course	CourseOffering	Assessment	Award	Conferral	GradeSystem
Program-Offering	Enrollment	Term	CourseCatalog	Assessment-Offered	Academy		Grade

Requisite Model						Course Registration Model	
Course-Requirement	Program-Requirement	Credential-Requirement	Assessment-Requirement	Award-Requirement	Objective-Requirement	ActivityBundle	Registration

Learner Record Domain Model Examination Document and LRG Project

Draft REST Documentation:
Chronicle   Program   Learning   Course   More on the way…

DXtera Service Framework Description

Thank you

Learn more at dxtera.org