Repository with history

DACI: How to implement a repository with history?

Status	RELEASED	
Impact	HIGH	
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Contributors	Graham Wallis	
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Informed		
Due date		
Outcome	Progressed option 2 to a release state	

Tips and info



Recommendations

We agreed to examine the potential of Option 2 in more detail, and have now ultimately taken that approach to a released state.

Background

A common scenario we come across with almost all metadata repositories we have seen is that they lack the ability to store historical information about metadata and respond to point-in-time inquiries. While Egeria's type system and APIs have been built from the beginning to support such history, we have not yet implemented a backend storage option that implements history.

Considering this comes up frequently as a common need, even to augment existing metadata repositories, providing such a historical store for metadata could be a somewhat narrow but nonetheless extremely common adoption point for Egeria.

Current state

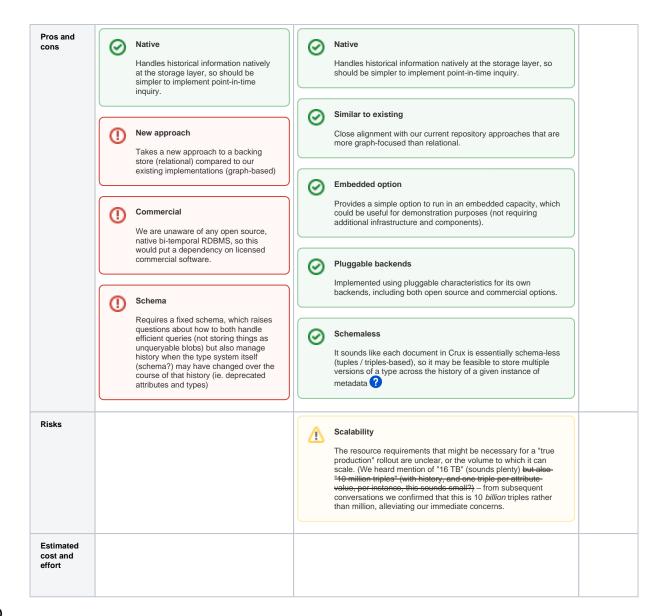
We are currently considering implementation options for an initial approach to such a repository.

Data for decision support

• Identification of potential technologies to use as the backing store for such a repository.

Options considered

	Option 1: bi-temporal RDBMS	Option 2: bi-temporal graph	Option 3: search index
Description	Using a bi-temporal relational database like DB2	Using a bi-temporal graph store like Crux	Using a search index like Elastic
Rollout plan		Start with some initial proof of concept activities like building some of the basic methods in a repository connector.	Leaving as an alternative approach that was suggested, but no further details available.



FAQ

Q1.

A1.

References

Relevance	Link
Original GitHub issue	https://github.com/odpi/egeria/issues/2545
Discussion with Crux team	2020-11-27 Meeting notes

Follow-up action items

Learn more: https://www.atlassian.com/team-playbook/plays/daci

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