

Kepler - Bug #3939

Kepler Unique LSID Namespace generation

04/03/2009 02:37 PM - Aaron Aaron

Status:	Resolved	Start date:	04/03/2009
Priority:	Immediate	Due date:	
Assignee:	Aaron Aaron	% Done:	0%
Category:	core	Estimated time:	0.00 hour
Target version:	2.0.0	Spent time:	0.00 hour
Bugzilla-Id:	3939		

Description

The Kepler installer should generate a public/private key pair upon installation. The private key is then used to digitally sign generated KARs from that particular Kepler instance. The public key is included inside the KAR as a separate KAREntry. This public key along with the locally generated LSID will provide for determining the uniqueness of KARs regardless of internet connectivity.

History

#2 - 04/24/2009 05:04 PM - Aaron Aaron

The following requirements have been implemented:

A Kepler instance always has a unique authority/namespace.

Ship Kepler with a list of valid authorities for providing unique namespaces.

During installation of a Kepler instance

IF a network connection is available

and an authority can be reached

and a namespace can be assigned

record authority and assigned namespace in the common module directory (not the cache directory)

call this file InstanceAuthNamespace { file contents example: kepler-project.org:3271 }

refer to an LSID generated using this kind of Authorized Namespace as a Verified LSID (VLSID)

ELSE

create a version 4 UUID and save it to disk as the existing namespace using "uuid" as the authority

call this file InstanceAuthNamespace { file contents example: uuid:7e1d1daf-4890-4e84-bcf4-e9192254461a }

refer to an LSID generated using this kind of Unauthorized Namespace as a Probabilistic LSID (PLSID)

#3 - 04/24/2009 05:05 PM - Aaron Aaron

To test out getting a unique namespace from the test Authority Namespace service, delete the InstanceAuthNamespace file in the root directory of the common module (if it exists). A new file will be generated the next time you start Kepler.

#4 - 05/19/2009 09:22 PM - Aaron Aaron

Documentation for the KeplerLSID system will be maintained here:

<https://kepler-project.org/developers/teams/framework/kepler-life-science-identifiers-keplerlsid>

#5 - 03/27/2013 02:25 PM - Redmine Admin

Original Bugzilla ID was 3939

Files

PLSID_requirements.html	7.96 KB	04/20/2009	Aaron Aaron
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