XC NCIP Toolkit

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What is NCIP

- An extensible XML-based protocol for circulation services
- Now in its second version
- Under continuous maintenance by NCIP Standing Committee

What is the XC NCIP Toolkit ?

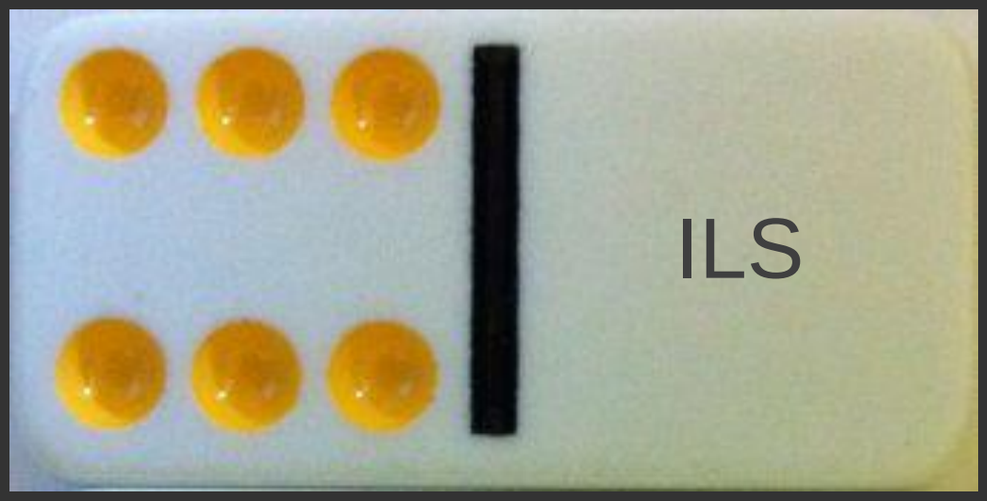
- Part of the larger Extensible Catalog Project
- Open source - MIT license
- Java
- Three components

Toolkit Components

- A core that handles sending/receiving & parsing/validating the NCIP messages
  - Can be extended to support other encodings than XML (e.g. JSON)
  - Can be extended to support other protocols than NCIP
- A framework for ILS connectors which can implement all or some of the services
  - Two connectors currently
- A framework for clients to call NCIP servers

Client

?



Client

NCIP

ILS

ILS

ILS

Toolkit

ILS

Client

NCIP

ILS

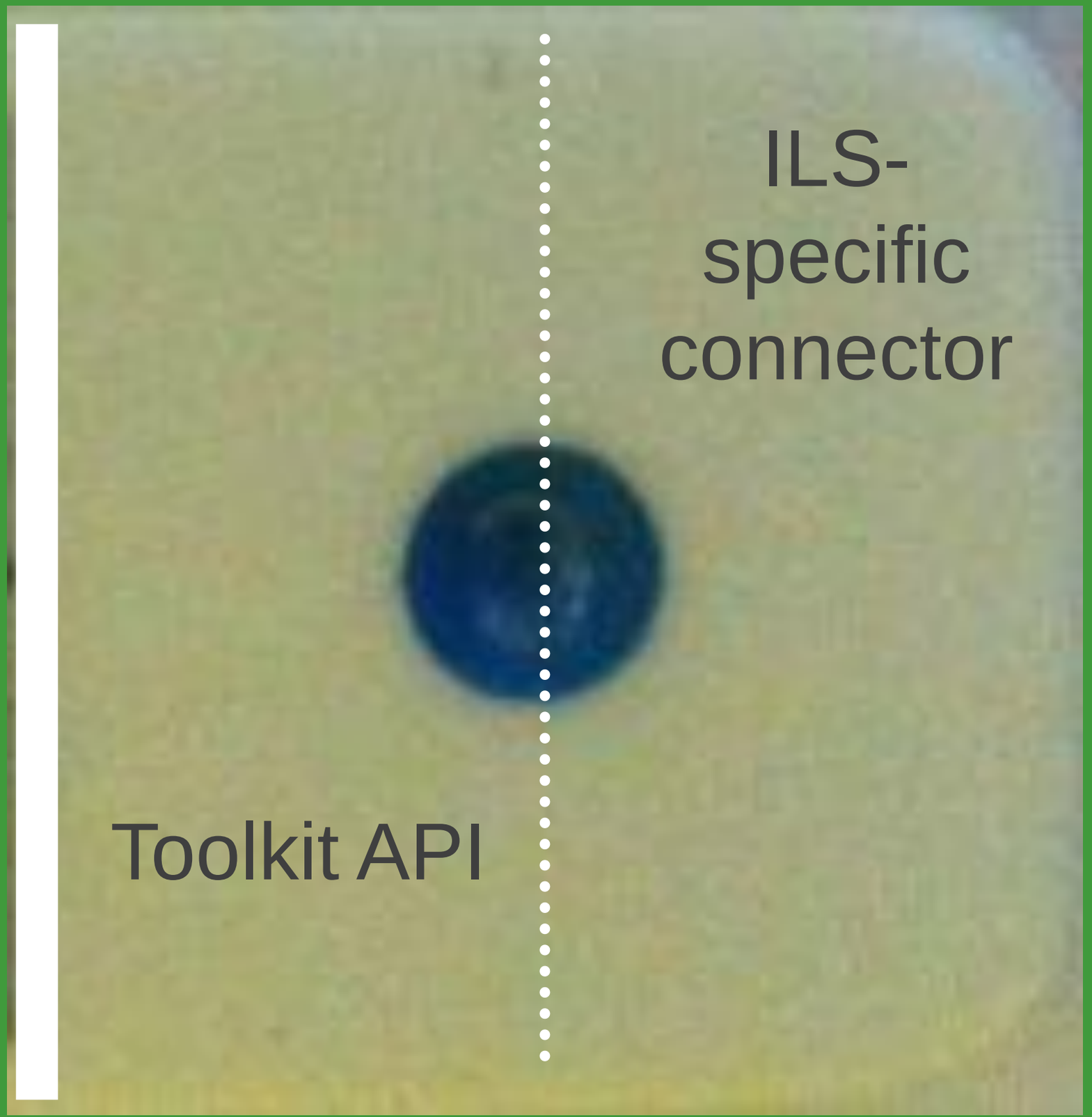
ILS

Toolkit

NCIP Responder

Toolkit API

Toolkit



Toolkit

NC IP

Toolkit API

ILS Connector

ILS

Client

NCIP

NC IP

Toolkit API

ILS Connector

ILS

NC IP

Toolkit API

ILS Connector

ILS

Toolkit

JSON

Toolkit API

ILS Connector

ILS

Client

JSON

JSON

Toolkit API

ILS Connector

ILS

JSON

Toolkit API

ILS Connector

ILS

Toolkit

Client

Toolkit API

NCIP Initiator

Toolkit

Client

Toolkit API

ILS Connector

ILS

Toolkit API

ILS Connector

ILS

Toolkit API

ILS Connector

ILS

How can libraries participate?

- Consider using the toolkit
  - As a library: install it!
    - VuFind and the Toolkit at your Voyager library
  - As a developer: use it!
    - A script that your library's web pages call to display the user's account information.
    - Write a connector for your library's ILS
  - As a vendor: support it!
    - Expose your ILS's circulation services so that your customers can write full-features connectors.
    - Incorporate toolkit into your software

Ways libraries can use the toolkit

- Discovery Tools
  - Display item availability, holdings, patron information
  - Renew items, Place holds
  - VuFind, Extensible Catalog
- Resources Sharing
  - Request Items, Checkout, Check-in
  - Lehigh – Relais
  - Orbis Cascade - Evergreen

Further Resources

NCIP Standard Site

http://ncip.info

XC NCIP Toolkit project site

http://code.google.com/p/xcncip2toolkit/