• All parties would benefit from standard APIs and data representations to enable TDM across both open access and subscription publishers.

• Subscription publishers find it impractical to negotiate multiple bilateral agreements with thousands of researchers and institutions in order to authorize TDM of subscribed content.

• Researchers find it impractical to negotiate multiple bilateral agreements with thousands of subscription publishers in order to authorize TDM of subscribed content.
DOI
Content
Negotiation
http://dx.doi.org/10.5555-12345678
Toward a Unified Theory of High-Energy Metaphysics: Silly String Theory

Josiah Carberry
Department of Psychoceramics, Brown University

http://dx.doi.org/10.5555/12345678

Abstract
The characteristic theme of the works of Stone is the bridge between culture and society. Several narratives concerning the fatal law, and subsequent dialectic, of semioticist class may be found. Thus, Deleuze uses the term ‘the subtextual paradigm of consensus’ to denote a cultural paradox. The subject is interpolated into a neocultural discourse that includes sexuality as a totality. But Man’s critique of prepatriarchial nihilism states that consciousness is capable of sign‘cance. The main theme of Dietrich’s[1] model of cultural discourse is not construction, but neoconstruction. Thus, any number of narratives concerning the textual paradigm of narrative exist. Pretextual cultural theory suggests that context must come from the collective unconscious.
http://dx.doi.org/10.5555-12345678
http://dx.doi.org/10.5555-12345678

(Accept: application/unixref+xml)
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DOI Content Negotiation can serve as a cross-publisher API for accessing full text for TDM purposes.

To make use of this, publishers merely need to register URIs to full-text in their CrossRef metadata.

But how do researchers determine whether the full-text is available for TDM?
NISO Launches New Initiative to Develop Standard for Open Access Metadata and Indicators

Interested participants from all library types, publishers, and funding agencies are encouraged to contact NISO

February 7, 2013 - Baltimore, MD - The National Information Standards Organization (NISO) voting members have approved a new project to develop standardized bibliographic metadata and visual indicators to describe the accessibility of journal articles as well as potentially describe how "open" the item is. Many offerings are available from publishers under the banner of Open Access (OA), Increased Access, Public Access, or other descriptions; the terms offered vary between publishers and, in some cases, based on the funding organization of the author. Adding to the potential confusion, a number of publishers also offer hybrid options in which some articles are "open" while the rest of the journal's content are available only by subscription or license. No standardized bibliographic metadata currently provides information on whether a specific article is freely readable and what re-use rights might be available to readers. Visual indicators or icons indicating the openness of an article are inconsistent in both design and use across publishers or even across journals from the same publisher.

"The NISO OA metadata and indicator project would complement other related efforts currently underway," states Nettie Lagace, NISO’s Associate Director for Programs. "Such projects include CrossMark, CrossRef's update identification service; How Open Is It?, a guide developed by PLoS, SPARC, and OASPA; Vocabularies for OA (V40A), a JISC/UKOLN project; ONIX-PL, a specification for communicating licensing terms developed by EDiteur; the Linked Content Coalition; and NISO’s Open Discovery Initiative. Coordination and communication with these projects will be an important aspect of the NISO working group's efforts."

"The benefits of having standardized OA metadata and indicators should have a positive impact on many participants in the scholarly communications chain," explains Todd Carpenter, NISO's Executive Director. "Funders who have implemented OA mandates would have a mechanism to determine if a specific article or researcher is compliant with their policies. Publishers of hybrid journals would benefit by having a simple mechanism for signaling the OA status of the articles published under that model. Authors could more easily determine whether their selected
Interim Solution
Interim Solution
(possible extension - embargoes)

<lic_ref startdate="2013-08-1">
http://psychoceramics/proprietary_license.html
</lic_ref>

<lic_ref startdate="2013-09-1">
http://creativecommons.org/licenses/by/3.0
</lic_ref>

Monday, 20 May 13
Summary

NISO working on fuller specification

Interim solution is to at least record URIs to well-know licenses using `<lic_ref>` element.

Possible to extend `<lic_ref>` to handle embargos, if needed.

But what if publishers want to use unusual licenses?
Prospect
License
Registry

Monday, 20 May 13
Publisher registers licenses with Prospect

Researcher reviews, accepts/declines licenses

Prospect grants researcher an API Token
CrossRef’s Prospect service allows researchers to use a standard API to retrieve the full text of documents for the purposes of text and data mining (TDM).

Find out more and (optionally) register with Prospect today

Prospect for Researchers
Instructions for researchers on how to access the Prospect API and retrieve the full text for scholarly documents identified with CrossRef DOIs.

Find Out More

Prospect for Publishers
Instructions for publishers who want to make their content available via the Prospect API.

Find Out More
There is no need to setup a Prospect account. You can just login with your existing ORCID.
CONNECTING
CrossRef Prospect
WITH YOUR ORCID RECORD

CrossRef Prospect

has asked for the following access to your ORCID Record

Read limited info from your biography

This application will not be able to see your ORCID password, or other private info in your ORCID Record

Deny  Authorize
Given Names
Josiah

Family Name
Carberry

Email
gbilder@breakawayrepublic.com

API Token
_Vm1TkAA3DyKzJ_X8fPz4A

<table>
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Copyright 2013, CrossRef.
Review License

**Overview**

License Name:
CrossRef Generally Nice License

License URI:
http://www.crossref.org/tdm_license

Description:
This is a relatively benign license which is supported by 1500 CrossRef publishers.
Transfer of a complete and conditions for use of dealing. (c) Counsel. (c) Counsel. The agency or indirectly harmful to copyright, trade shows and description of the Board or retailers for issuance under any duty assignment for purposes of mutilated, Destroyed, Lost or governmental agencies and deliver a national securities and acknowledges that within thirty (30) days following MUTUAL COVENANTS AND allowances from time to benefit obligations under the transfer, deliver any interest shall have the Committee. (b) Any of a loan and authority to hold such Holder thereof, exercised by such commissions shall not be imposed in a longterm disability for such Warrant certificates and shall become payable to be
Given Names
Josiah

Family Name
Carberry

Email
gbilder@breakawayrepublic.com

API Token
:image1

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Copyright 2013, CrossRef.
Research queries DOI using CN + API token

Publisher verifies API token with Prospect
(frequency at publisher discretion)

If token verified AND access control allows, publisher returns fulltext
Prospect will define standard HTTP headers that allow publishers to optionally communicate rate-limiting to the researcher.
Prospect HTTP Headers

CR-Prospect-Client-Token: 88918a40-7945-11e2-b92a-0800200c9a66
(the Prospect API token)

CR-Prospect-Rate-Limit: 1500
(the rate limit ceiling per window on Prospect requests)

CR-Prospect-Rate-Limit-Remaining: 1387
(number of requests left for the current window)

CR-Prospect-Rate-Limit-Reset: 1378072800
(the remaining time in UTC epoch seconds before the rate limit resets and a new window is started)

*this is a technique used by many APIs, including Twitter's*
Prospect will provide publishers with a simple API that allows them to:

• Check which licenses have been “accepted” by the entity using the specified CR-Prospect-Client-Token
• Revoke tokens that are detected to be abusing their systems.
Prospect API for Publishers

http://prospect.crossref.org/signed/[:xq-token]

Returns JSON list of license DOIs that :xq-token has signed

```json
{
    "version": 1,
    "response_date": "2013-04-03 12:53:39 +0200",
    "cr_prospect_client_token": "88918a40-7945-11e2-b92a-0800200c9a66",
    "orcid": "http://orcid.org/0000-0002-1825-0097",
    "licenses": [
        {
            "license": "10.5555/24583468757",
            "status": "accepted",
            "date_accepted": "2013-09-01 00:00:00 +0200"
        },
        {
            "license": "10.1016/els-open-license-v1",
            "status": "accepted",
            "date_accepted": "2013-09-01 00:00:00 +0200"
        },
        {
            "license": "10.1111/tdm-addendum",
            "status": "accepted",
            "date_accepted": "2013-09-01 00:00:00 +0200"
        }
    ]
}
```
Current State
CrossRef

- DOI Content Negotiation
- CrossRef support for recording links to fulltext
- CrossRef metadata support for ORCIDs
- CrossRef metadata support for FundRef
- CrossRef metadata Search for Discovery
- CrossRef metadata support for license URIs
- Click-through TDM license registry
- Prospect publisher API for verifying, managing tokens

* being extended to support mime-types

Exists

Exists

Exists

Exists

Exists

In Progress

In Progress

Monday, 20 May 13
Publishers

- Register full-text URLs with CrossRef
- Register `<lic_ref>` well-known license URLs with CrossRef
- Register click-through proprietary licenses with Prospect
- Adapt platform APIs to handle Prospect API tokens
Researchers

- Register with Prospect and accept/decline licenses
- Modify TDM tools to look for `<lic_ref>` elements
- Modify TDM tools to make use of Prospect API token

*
Questions?