Data Standardization
Selection of International Efforts

Isabella Mader
Excellence Institute
Open Data Standards

Types:

- Structure standards
- Semantic standards
- Terminology / data format standards
International Data Standardization Efforts

GeoThink [http://www.geothink.ca/opendatastandards/](http://www.geothink.ca/opendatastandards/)

Center for Government Excellence, John Hopkins Univ. [https://govex.jhu.edu](https://govex.jhu.edu)

Open311: [http://www.open311.org](http://www.open311.org)

More:
[http://next.openspending.org](http://next.openspending.org)
[https://www.waterpointdata.org/about-wpdx-standard](https://www.waterpointdata.org/about-wpdx-standard)
[https://openreferral.org/](https://openreferral.org/)
[http://hxlstandard.org/](http://hxlstandard.org/)
A collaborative model and open standard for civic issue tracking

Learn More
Open311 provides open communication with public services and local government.

Show Support
Pledge support for the implementation of Open311 in your city or service.

Help Develop
Help us develop Open311 apps and refine the spec to ensure wider interoperability.

From the Blog
Highlights from the Open311 Ecosystem

Open311 first began with an API for Washington D.C.’s 311 system, but it really became a community when the leadership of San Francisco and the support of organizations like OpenPlans, Code for America, and even the White House brought many cities, companies, and organizations together into a productive collaboration. Now it’s a rich ecosystem of cities, technology platforms, and forward thinking initiatives around the world that are building common infrastructure for people to better engage with their government and get connected to their community. Technical development and discussion around Open311 has continued on the mailing list, on GitHub, and in many other venues, but a lot of news about this burgeoning ecosystem has gone unnoticed. What follows is a long overdue collection of highlights that haven’t received enough attention.

Introductions & Explanations
With the talk about Open311 as an open standard or as common infrastructure, it can be hard for the uninitiated to understand what Open311 really is, especially if they’re not familiar with a traditional government contact center or having a standard phone number. Is Open311 a product? Nope. Is it a piece of software? An app? A service? Sort of. As a technical standard, it’s a protocol
# Open 311 Member Cities
complying with the GeoReport v2 Standard

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<tr>
<th>Name</th>
<th>Country</th>
<th>API Discovery</th>
<th>API Key Request</th>
<th>Documentation</th>
<th>Production URL Example</th>
<th>Test URL Example</th>
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## Other Endpoints in Development

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[http://wiki.open311.org/GeoReport_v2/Servers/]
Descriptor Standardization

- Open License
- Transferable to Other Jurisdictions
- Stakeholder Participation
- Extensions
- Consensus-Based Governance
- Human Readable
- Requires Up-To-Date Data
- Machine Readable
- Takes into Account Associated Metadata for the Dataset

https://datastandards.directory/glossary
IV. Next Generation: To-Be-Defined Data Standards Compliance in EU Projects and other Grants

Challenge: The EU has been funding series of projects to develop data standards

Goal: Generate high-quality comparable data landscape
V. Future Generation: Data-Markets for high-quality data

Challenge: Generate widely (internationally?) accepted standards and platforms that work like a data market

Goal: Generate visibility and ROI for high-quality data sets that comply with widely accepted and applied standards, ideally international level

Examples: Research can yield a return from data sets they generated; Businesses can sell data i.e. from production, machine parks, IoT, ... and generate additional income, new business models will emerge, some share of the earnings of businesses will come from selling HQ data sets
Isabella Mader MSc
www.excellence-institute.at
isabella.mader@excellence-institute.at
fon: +43 1 263 12 71

CEO
Excellence Institute
Lectures
Research
(IT-)Strategy
Information Mgmt
isabella.mader@excellence-institute.at

Executive Advisor
Global Peter Drucker Forum

University Lecturer
Information
Management
Knowledge
Management
IT-Strategy
e-Learning
Information Literacy
Digital Leadership
Various Universities

Author
E-Learning 2.0
Digital Business
Networks
Corporate Culture
Network Society
(in prep.)
isabella.mader@gmail.com