Long walk to an International Standard

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Joint OGC – ISO/TC 211 Celebration of Women and Geospatial Standards
31 March 2021, virtual meeting
Standards development

• Consensus building
  – Substantial agreement by those involved
  – More than simple majority
  – Not necessarily unanimous
What is an address?

Classes or types: *street address, box address...*
Components: *street number, street name, place name...*

Values or names

Street number=392
Street name=*Church Street*
Place name=*Pretoria*

Street number=392
Street name=*Kerkstraat*
Place name=*Pretoria*

Street number=392
Street name=*Stanza Bopape Street*
Place name=*Tshwane*

Renderings

Mr Joe Soap
392 Nelson Mandela Drive
Polokwane
0087
South Africa

Signposts

Mr Joe Soap
392 Nelson Mandela Dr
ZA-0087 Polokwane

Encodings

<streetNumber>392</streetNumber>
<streetName> Pretorius Street</streetName>
<placeName>Pretoria</placeName>

streetNumber, streetName, placeName
392, Pretorius Street, Pretoria
393, Pretorius Street, Pretoria
Proceedings of the

ISO Workshop on address standards

Considering the issues related to an international address standard

Sunday, 25 May 2008, 09:30-16:30
National Survey and Cadastre, Rentemestervej 8, 2400 Copenhagen NV, Denmark
ISO/TC 211 N 3188

Replaces N 3075
2011-08-05
Number of pages: 131

ISO/TC 211
Geographic information/Geomatics

ISO reference number: 19160
Title: Review summary of project 19160, Addressing
Source: ISO/TC 211/WG 7/PT 19160
Expected action: For information
Type of document: Review Summary
Hyperlink: http://www.iso_tc211.org/protdoc/211n3188/
Reference: N 3189
What is an address?

Classes or types: street address, box address...

Components: street number, street name, place name...

Values or names
Street number=392
Street name=Church Street
Place name=Pretoria

Rendering

Mr Joe Soap
392 Nelson Mandela Dr
Pretoria
South Africa

Signposts

ISO 19160-1
ISO 19160-2
ISO 19160-3
ISO 19160-4
ISO 19160-5

Encodings

<streetNumber>392</streetNumber>

<streetName>Pretorius Street</streetName>

<placeName>Pretoria</placeName>

streetNumber, streetName, placeName
392, Pretorius Street, Pretoria
393, Pretorius Street, Pretoria

STANDARD
CAUTION
ROUGH ROAD
• Many rules for writing…!
  – Verbs: shall, should…
  – Conformance classes
  – …

• Many other standards to consider
  – Profiles
  – Abstract test suite
  – …

• Technical stuff
  – Conceptual modeling
  – UML repository at the JRC
  – …
ISO 19160-1:2015
Addressing — Part 1: Conceptual model
Is it worth it?

- **Short term**
  - Better communication: terminology, conceptual model
  - Interoperability: share and exchange of address data

- **Longer term**
  - Health and safety (e.g. emergency response)
  - Economy/cost saving (sign posts, standardized names)
  - Facilitate cross border trade (e-commerce)
  - Catalyst for innovation (software tools)
  - Development (service delivery, health care)
Thank you
Acknowledgements

The South African Bureau of Standards (SABS) who has funded my continued involvement in standards since 2006.