

A decorative network diagram in the top-left corner, consisting of various nodes (some solid blue circles, some white circles with blue outlines) connected by thin grey lines. The nodes are arranged in a complex, interconnected pattern.

An Introduction to SPASE

Todd King

A decorative network diagram in the bottom-right corner, similar to the one in the top-left, featuring nodes and connecting lines.

Space Physics Archive Search and Extract (SPASE)

An international, community-based standards organization with the goal to support:

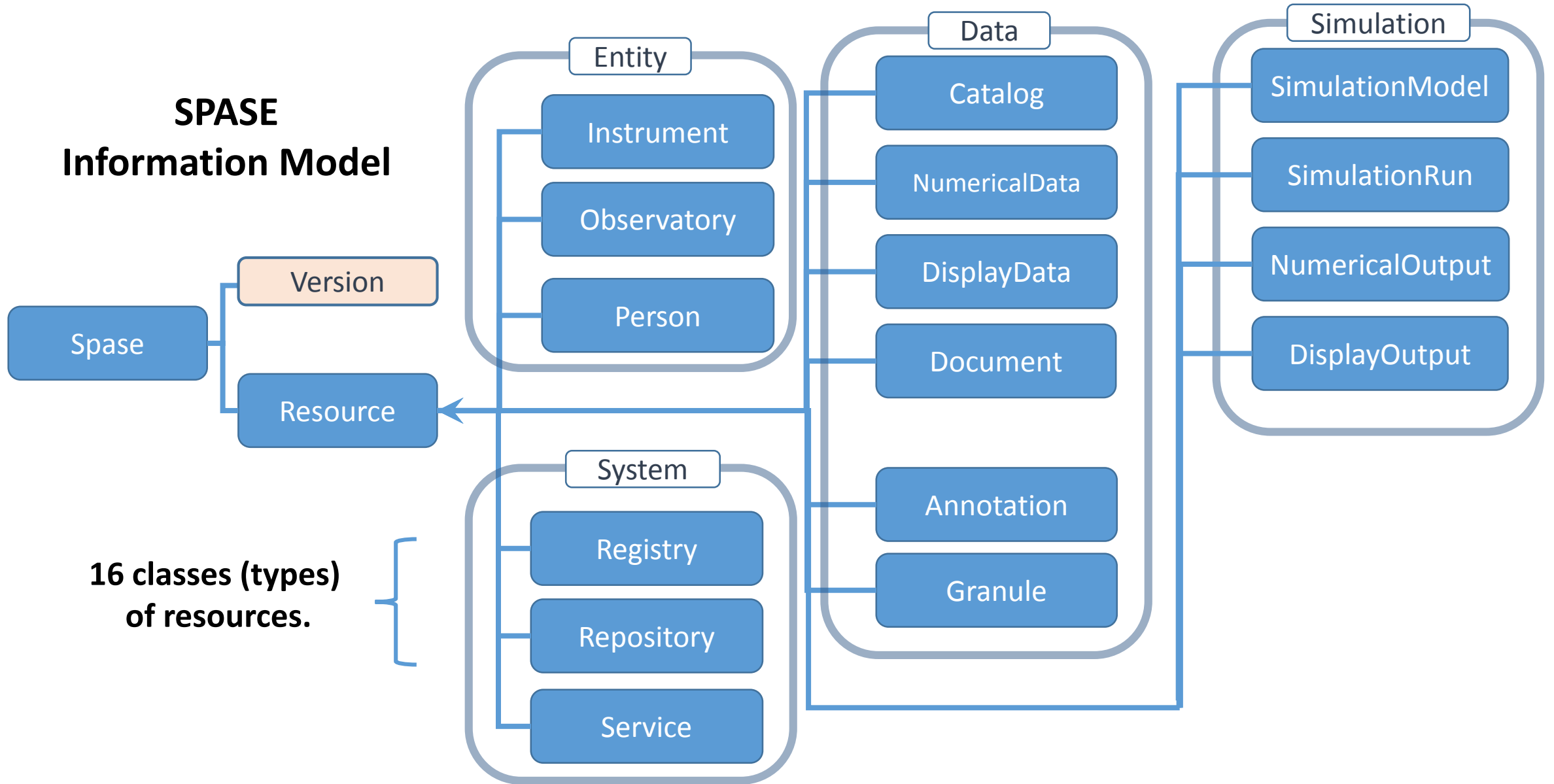
- Open Source
- Open Systems
- Open Data

and the role of

- Defining and maintaining a Metadata Model for Space and Solar Physics interoperability
- Maintaining the core metadata to enable sharing

<http://spase-group.org>

SPASE Information Model

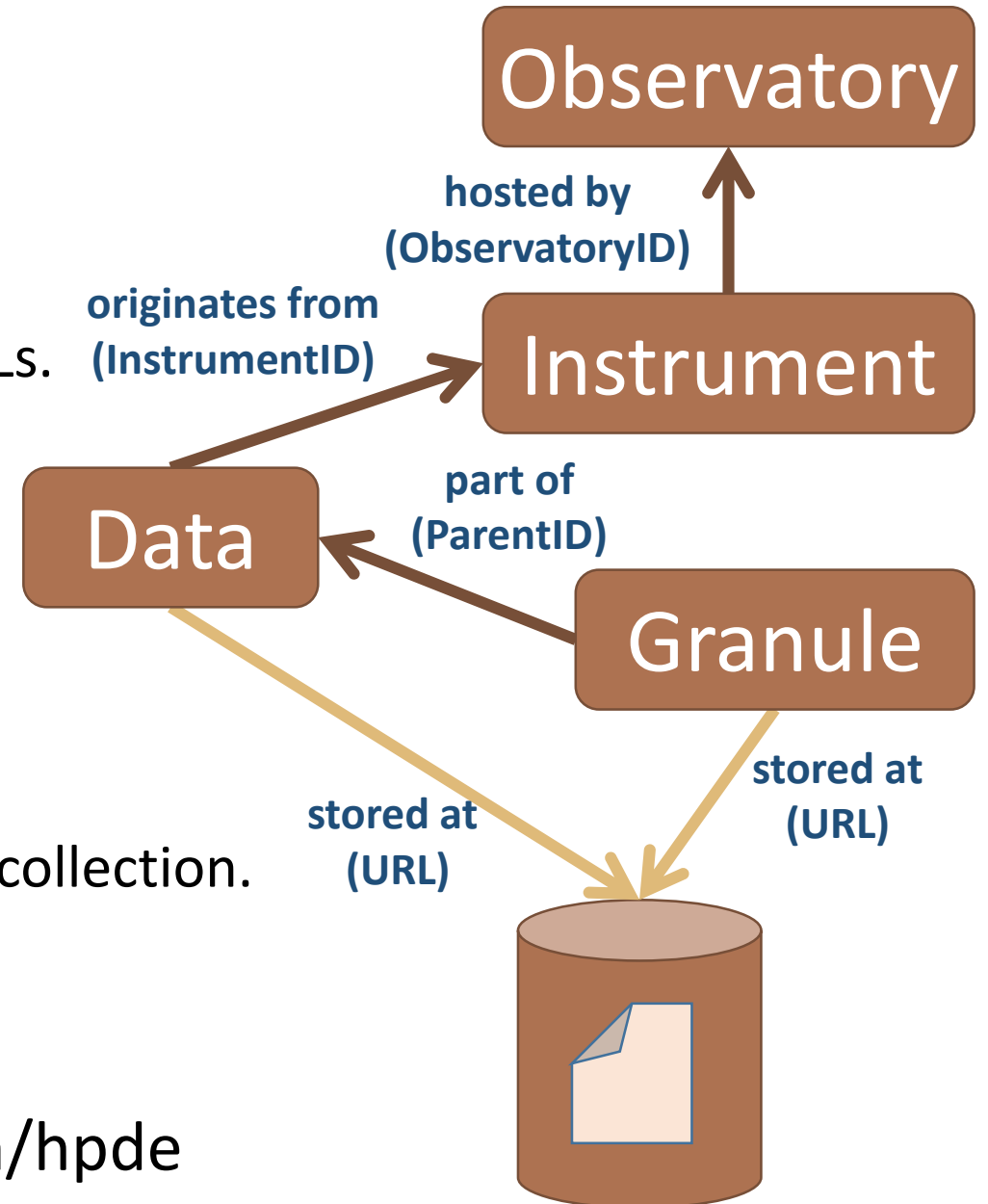


Modular Metadata

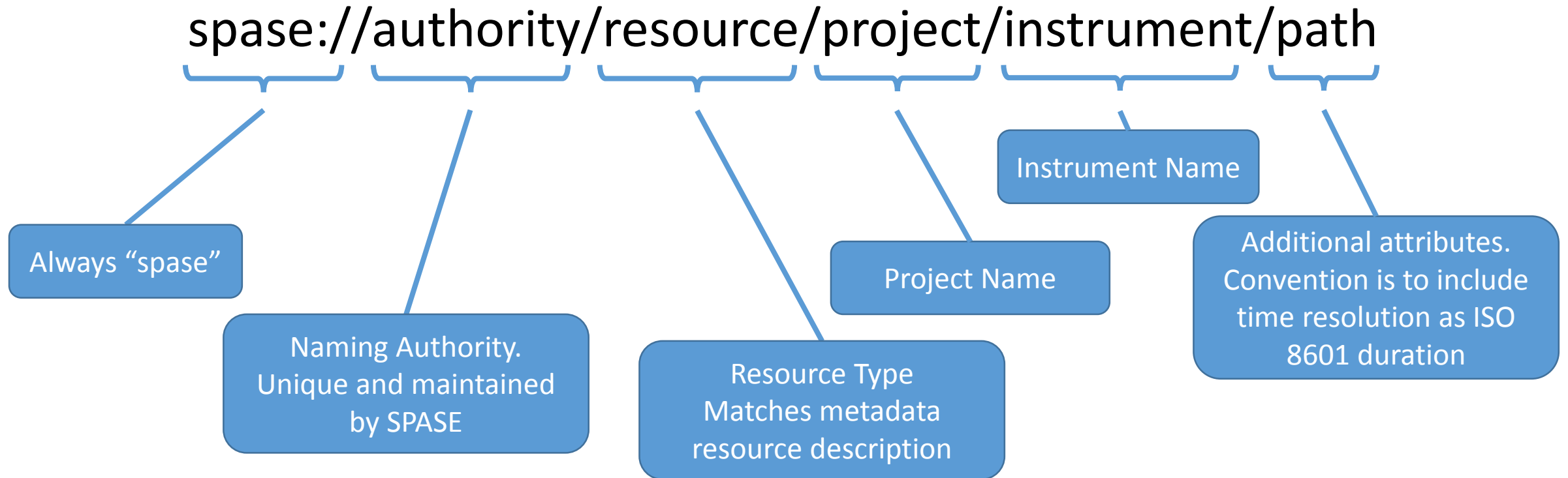
- Describe each unique resource once.
 - Assign a universally unique identifier
 - Metadata is connected to data through URLs.
- Then use associations to provide
 - Provenance, scientific context and location of sampled data.
- Like kinds of data are described as collections of files.
 - A "Granule" describes a member (file) of a collection.
 - An accessor can conceal file boundaries.

Public Metadata Registries:

<http://github.com/hpde>



SPASE Resource ID



Example

`spase://VSPO/NumericalData/DE2/NACS/PT1S`

Naming Authorities

ASWS	Australian Space Weather Services (ASWS) http://www.sws.bom.gov.au/World Data Centre
CCMC	Community Coordinated Modeling Center (CCMC) http://ccmc.gsfc.nasa.gov/
CSSDP	Canadian Space Science Data Portal (CSSDP) http://www.cssdp.ca/
NOAA	National Oceanic and Atmospheric Administration (NOAA) http://www.nesdis.noaa.gov/
SMWG	SPASE Metadata Working Group (SMWG) The community location for entities such as persons, observatories, instruments, repositories, registries and services. http://www.spase-group.org/registry
VSPO	Virtual Space Physics Observatory (VSPO) http://vspo.gsfc.nasa.gov
VSO	Virtual Solar Observatory (VSO) http://sdac.virtualsolar.org/

VxO (VEPO, ViRBO, VITMO, VMO, VWO) naming authorities are still in use, but are considered deprecated.

Tools

SPASE Resource Tools (<http://spase-group.org/tools/resource>)

A set of command-line applications to generate, validate, referentially check, use and organize resource descriptions written in SPASE XML.

SPASE XML Editor (<http://spase-group.org/tools/xmleditor/>)

A web based editor for generating SPASE descriptions.

Document Generator (<http://release.igpp.ucla.edu/igpp/docgen/>)

A document generator based on Apache Velocity.

תודה
Dankie Gracias
Спасибо شكراً
Merci Takk
Köszönjük Terima kasih
Grazie Dziękujemy Děkojame
Ďakujeme Vielen Dank Paldies
Kiitos Tänname teid 谢谢
Thank You Tak
感謝您 Obrigado Teşekkür Ederiz
Σας Ευχαριστούμ 감사합니다
ບອບດຸນ
Bedankt Děkujeme vám
ありがとうございます
Tack