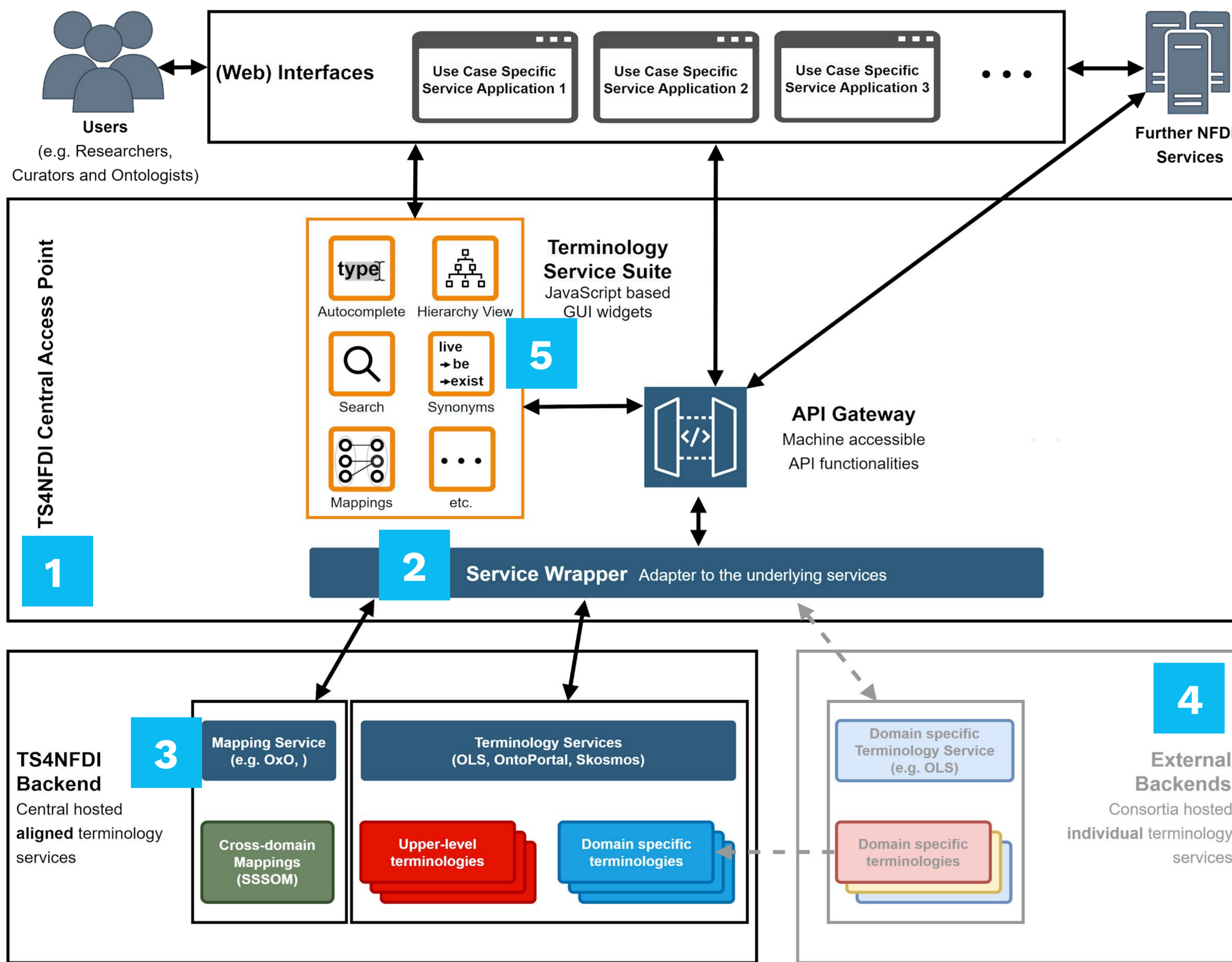


TS4NFDI: Harmonizing Terminology Services within NFDI

Roman Baum¹, Jan Fillies², Naouel Karam², Oliver Koepler³, Pooya Oladazimi³, Julia Sasse¹

¹ZB MED - Information Centre for Life Sciences; ²Institut für Angewandte Informatik e.V. (InfAI); ³TIB Leibniz Information Centre

Goal: Terminology Services 4 NFDI (TS4NFDI) is a **cross domain** service for the provision, curation, development, harmonization and mapping of terminologies. It aims to facilitate **consensus-building** and **interoperability** of services across disciplines to achieve a **shared** knowledge representation and knowledge engineering framework. The service seeks to integrate and converge individual solutions into a standardized, interoperable, and sustainable Terminology Service Suite.



1 Standardised, harmonised and interoperable **access** to Terminologies across all integrated Terminology Services, available for all NFDI-services via the **Terminology Service Suite widgets** or the **API Gateway**.

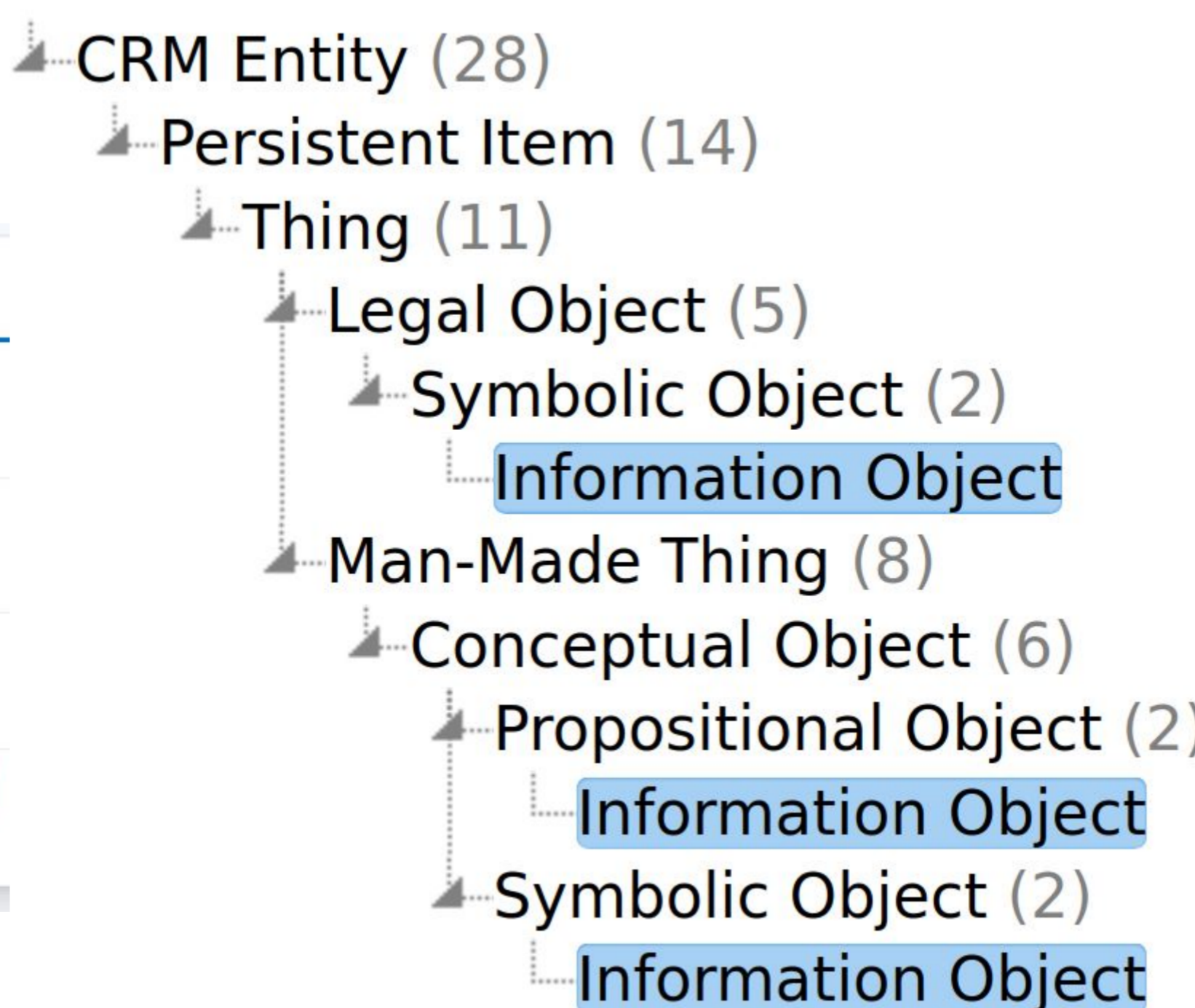
2 Interconnection of existing Terminology Services via a **Service Wrapper**. This allows for terminology use and management across disciplines, serving as a basis for terminology harmonisation efforts (Integration and Interoperability).

3 **SSSOM based Cross-domain Mapping Service** to manage and provide mappings for terminologies as a central service.

4 **Support of external terminology services** as backbone is possible.

5 Javascript-based widgets that can be embedded in graphical user interfaces (UIs) to simplify UI development and visualization of semantic information in other NFDI services. This streamlines the process of integrating standard vocabularies and performing **semantic annotation on data**, as well as supporting the **data discovery** process.

obje	Legal Object	Conceptual Object	Information Object	used specific object
	CIDOC_CRM_CORE > CIDOC-CRM-CORE_E72_LEGAL_OBJECT	CIDOC_CRM_CORE > CIDOC-CRM-CORE_E28_CONCEPTUAL_OBJECT	CIDOC_CRM_CORE > CIDOC-CRM-CORE_E73_INFORMATION_OBJECT	CIDOC_CRM_CORE > CIDOC-CRM-CORE_P16_USED_SPECIFIC_OBJECT



CIDOC_CRM_CORE > CIDOC-CRM-CORE:E73_INFORMATION_OBJECT

http://www.cidoc-crm.org/cidoc-crm/E73_Information_Object

Information Object

This class comprises identifiable immaterial items, such as a poems, jokes, data sets, images, texts, multimedia objects, procedural prescriptions, computer program code, algorithm or mathematical formulae, that have an objectively recognizable structure and are documented as single units. An E73 Information Object does not depend on a specific physical carrier, which can include human memory, and it can exist on one or more carriers simultaneously. Instances of E73 Information Object of a linguistic nature should be declared as instances of the E33 Linguistic Object subclass. Instances of E73 Information Object of a documentary nature should be declared as instances of the E31 Document subclass. Conceptual items such as types and classes are not instances of E73 Information Object, nor are ideas without a reproducible expression.

Alternative Names | Hierarchy | Cross references

No alternative names exist.

Access to the tools & documentation:



Widget Storybook: <https://t.ly/Aad7->
 TS4NFDI repo: <https://github.com/orgs/ts4nfdi/repositories>
 TSS widgets repo: <https://github.com/ts4nfdi/terminology-service-suite>

More information and contact details:

Mail: ts4nfdi@lists.nfdi.de
 NFDI Rocket.Chat: <https://all-chat.nfdi.de/>
 Channel: #ts4nfdi; join: <https://all-chat.nfdi.de/channel/ts4nfdi>
 About the project: <https://terminology.services.base4nfdi.de/>