



Webinar

ISA² Action: Catalogue of public services

23/01/2020

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Agenda



- 1 Introduction and objectives
- 2 Context and presentation from Finland
- 3 Update of the CPSV-AP tools
- 4 CPSV-AP specification maintenance
- 5 Upcoming activities and events

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Overview of the activities and objectives of this webinar

Activities	Contributions
CPSV-AP maintenance and scan of the controlled vocabularies	GitHub
SDG data model and classification	GitHub Public Review Workshop
Tools: upgrade of the Description Editor and Harvester	Survey Webinar
Support activities to the Member States	Contact us

Focus of this webinar

- Understand the activities required for creating an interoperable catalogue of services
- Identify the existing tools supporting this creation and your needs in such tools
- Decide on the next actions for updating CPSV-AP

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- 4 CPSV-AP specification maintenance
- 5 Upcoming activities and events

What are your options for creating an interoperable catalogue of services

Owner vs Publisher



Local



Regional



National

Describe



File format

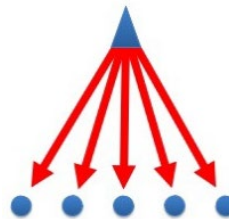
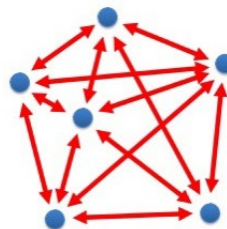


Editing tool

Exchange



Model owner



All options require tools



Data harvesting



Data validation



Publication



Mapping

How is the Catalogue of Services Action supporting you throughout those options?

ISA² Programme and the action of 'Catalogue of Public Services':

Providing a data standard to enhance the interoperability and exchange across the Member States

Result:

Data standard **CPSV-AP:**

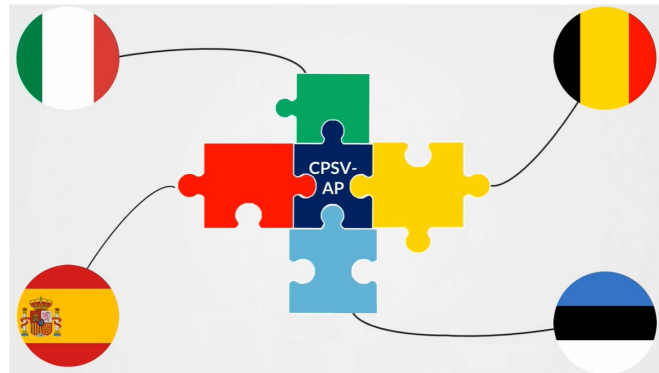
Core **P**ublic **S**ervice **V**ocabulary **A**pplication **P**rofile

CPSV-AP can be used:

1. As a data model from scratch for describing public services
2. As the link between different data models where each model is mapped to CPSV-AP

Furthermore providing tools which support the usage of CPSV-AP:

1. Description Editor
2. Harvester



How is the Catalogue of Services Action supporting you throughout those options?

Owner vs Publisher



Independently from your administrative level or role in building a catalogue of services,



National

Describe



we help you transforming your data or applying our tools for describing...

Exchange



... and for exchanging information (through APIs)...



Model owner



All options require tools



Data validation



Publication



Mapping



Suomi.fi and Finnish Service Catalogue

suomi.fi for publishing public services

Finto (Finnish ontology Service) for meta data and CPSV

23.1.2020



Definitions

Service

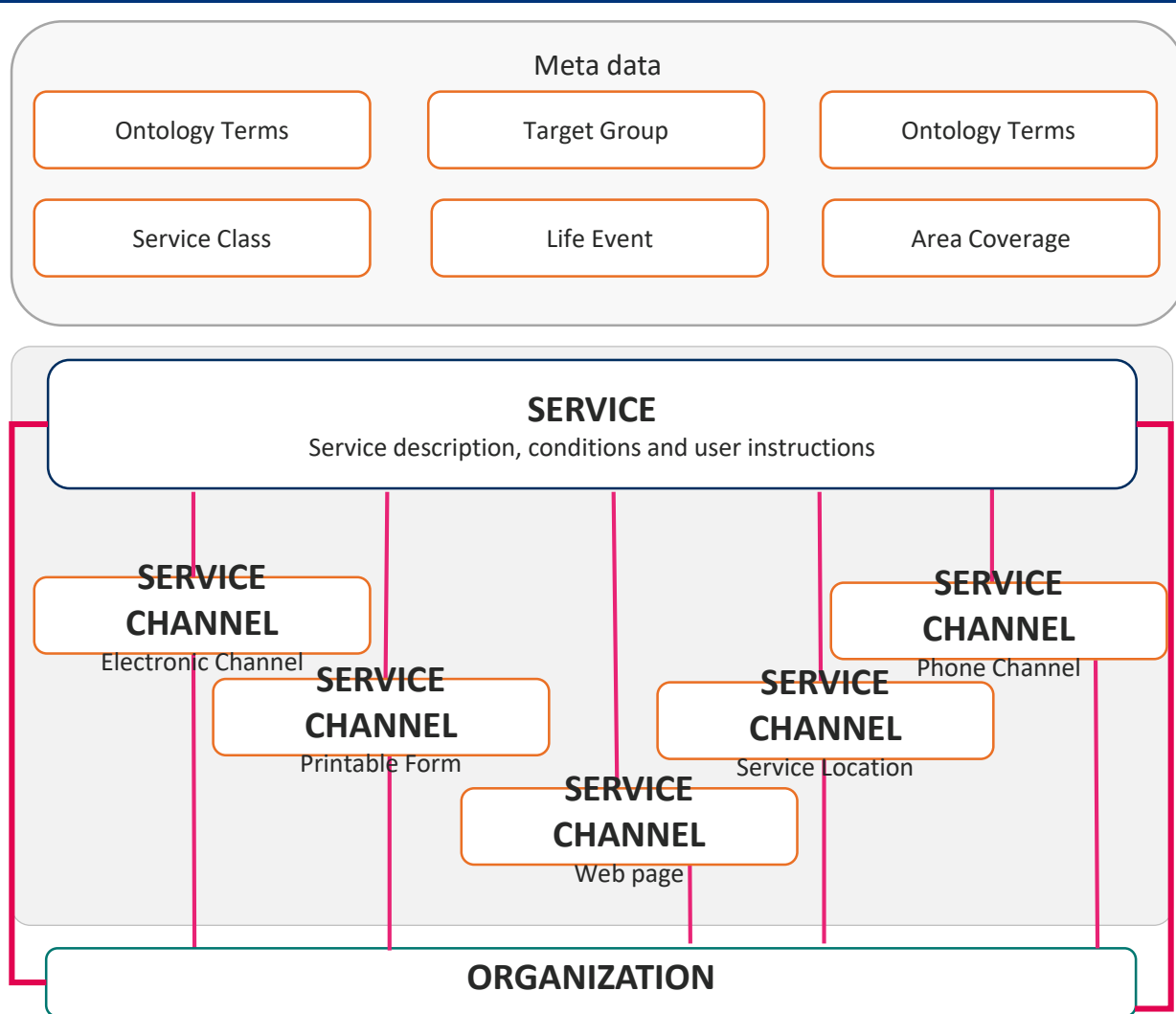
- Answers to clients need to resolve a problem
- Service has a predefined process

Service Channel

- A medium to get the service or start service process

Meta data

- Classifies services





Finnish service catalogue

Open source

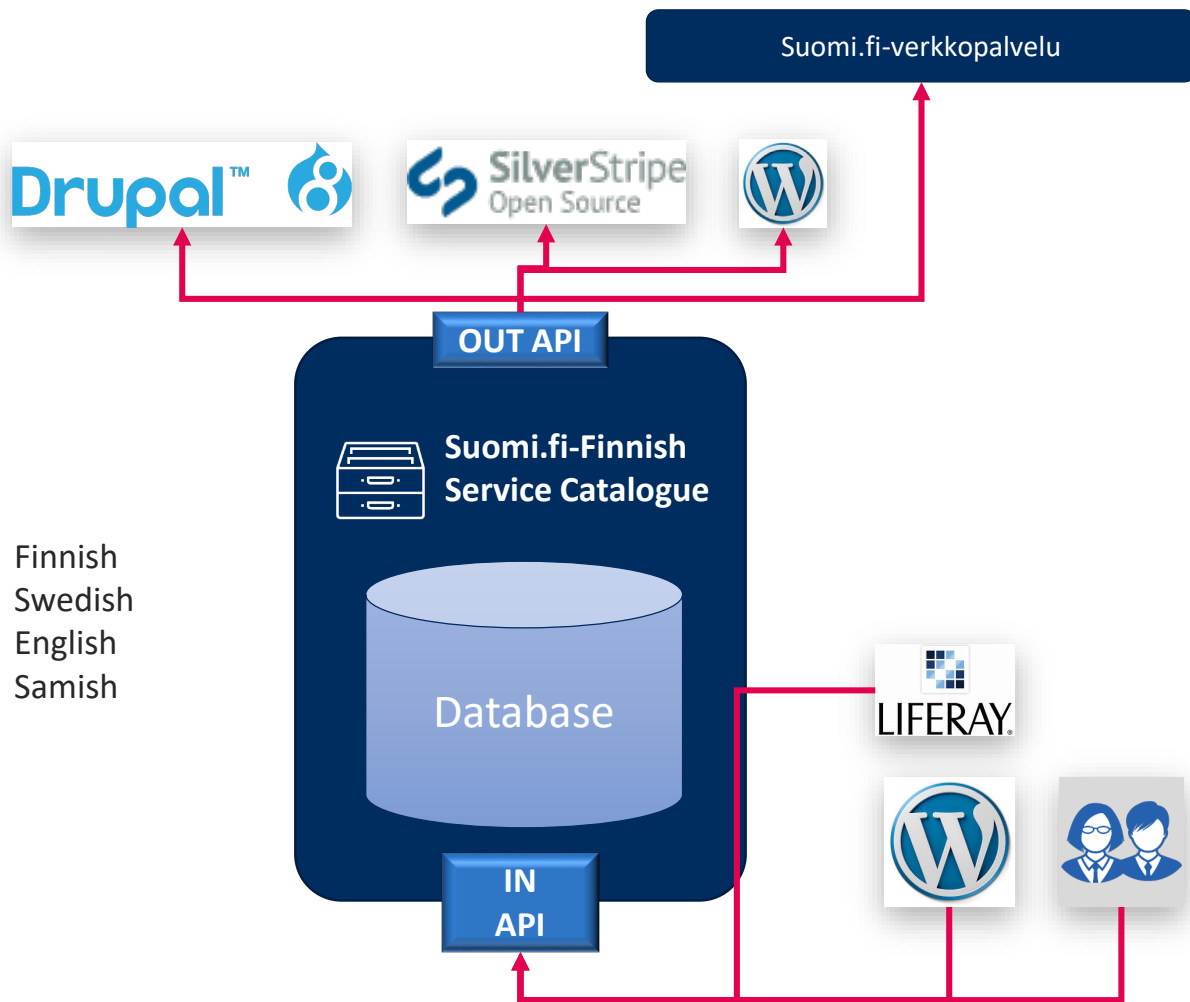
Supports multilingual data, UI in three languages

Data is published via API

Suomi.fi publishes whole database

Local websites and portals publish organization or service specific data

Data can be updated via IN api or via UI





Classification of public services

- A public url:
<http://finto.fi/ptvl/en/>
- 27 main categories
- Almost 180 sub categories
- A unique uri is stored to Finnish Service Catalogue

Julkisten palvelujen luokitus

Content language English

Search

Alphabetical Hierarchy

- Classification of public service producer organization types
- Classification of public service production types
- Classification of public services
 - P1 Housing
 - P10 Work and unemployment
 - P11 Industries
 - P12 Employer services
 - P13 Pensions
 - P14 Taxation and public finance
 - P15 Private finance and funding
 - P16 Transport
 - P17 Tourism
 - P18 Maps
 - P19 Safety and security
 - P2 Built environment
 - P20 Public order
 - P21 Consumer matters
 - P22 Immigration and emigration
 - P23 The environment
 - P24 Natural resources, flora and fauna
 - P25 Culture
 - P26 Communications
 - P27 Sports and outdoor activities
 - P3 Services for families
 - P4 Social services
 - P4.1 Housing services
 - P4.2 Services for older people
 - P4.3 Home care and home services
 - P4.4 Services for the disabled other than housing and home services
 - P4.5 Personal assistant services
 - **P4.6 Family care**
 - P4.7 Care for persons with intellectual disabilities
 - P4.8 Financial support for jobseekers
 - P4.9 Pupil and student welfare social services
 - P4.10 Social assistance
 - P4.11 Integration
 - P4.12 Peer and voluntary activities in social services
 - P4.13 Social service advisory and guidance services
 - P4.14 Social service auxiliary and support services

Social services > Family care

PREFERRED TERM **P4.6 Family care**

BROADER CONCEPT P4 Social services

NOTE This service subclass includes family care services for the elderly, persons with disabilities, children, the chronically ill and other such groups. The class includes the organisation of services, care agreements and training for service providers.

IN OTHER LANGUAGES

Perhehoito	Finnish
Familjevård	Swedish

URI <http://urn.fi/URN:NBN:fi:au:ptvl:v1029>

Download this concept: RDF/XML TURTLE JSON-LD



Finto Ontology – common vocabulary

- Terms in three languages:
English, Finnish and Swedish
- Over 55 000 preferred terms
with almost 22 000 alternate
terms in Finnish
- Almost 40 000 preferred
terms in English and 36 000
in Swedish
- Each term has a unique uri

KOKO Ontology Content language English

Alphabetical Hierarchy

- events and action
 - events
 - periods of time
 - breaks
 - delay (technology)
 - duration of action
 - employment-related time period
 - family leave
 - maternity leave**
 - special maternity leave
 - nursing leave
 - partial child-care leave
 - temporary child-care leave
 - parental leave
 - paternity leave
 - holiday
 - job alternation leave
 - rest period
 - retirement age
 - sabbatical leave
 - study leave
 - trial period
 - wage payment month
 - working hours
 - haudan hallinta-aika
 - käyttöönottovuosi
 - past
 - period of time related to calendar
 - period of time related to public financing
 - period of time related to trade
 - periods of time in natural sciences
 - response time
 - societal periods of time
 - time period related to taxation
 - time period related to the regulation of operations
 - time period related to the state of the society
 - vuodenvaihde (ajanjaksot)
 - phenomena
 - hierarkian ulkopuoliset (fi)
 - objects
 - abstract objects
 - periods of time
 - phenomena
 - physical objects
 - physical whole
 - place
 - properties
 - systems

events and action > periods of time > societal periods of time > family leaves > maternity leave
objects > periods of time > societal periods of time > family leaves > maternity leave
events and action > periods of time > employment-related time period > family leave > maternity leave
objects > periods of time > employment-related time period > family leave > maternity leave

PREFERRED TERM

maternity leave

TYPE

JUHO Concept
LIITO Concept
TSR Concept
YSO Concept

BROADER CONCEPT

family leave
family leaves

NARROWER CONCEPTS

special maternity leave

RELATED CONCEPTS

parental leave
paternity leave

SOURCE

TEM
Työsuojelurahasto
ysa

IN OTHER LANGUAGES

äitiysvapaa	Finnish
<i>synnytysloma</i>	
<i>äitiysloma</i>	
moderskapsledighet	Swedish
<i>barnbördsledighet</i>	
<i>förlossningsledighet</i>	
<i>mammaledighet</i>	

URI

<http://www.yso.fi/onto/koko/p4085>

Download this concept:

RDF/XML Turtle JSON-LD

CLOSELY MATCHING
CONCEPTS

Maternity leave	Library of Congress Subject Headings
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EXACTLY MATCHING
CONCEPTS

äitiysloma (fi)	TSR ontology
äitiysvapaa (fi)	YSA - General Finnish thesaurus
maternity leave	JUHO - Julkishallinnon ontologia
maternity leave	LIITO - Liiketoimintaontologia
maternity leave	YSO - General Finnish ontology
moderskapsledighet (sv)	Alliärs - General thesaurus in Swedish



Target group and life event

- Target group meta data has three main categories and 14 sub categories
- Main target groups are Citizens, Businesses and Authorities
- Life Events meta data has 14 main categories
- Life event is an optional information

Alphabetical Hierarchy

- Classification of public service producer organization types
- Classification of public service production types
- Classification of public services
- Classification of public services target groups
 - KR1 Citizens
 - KR1.1 Seniors
 - **KR1.2 Children and families with children**
 - KR1.3 Young people
 - KR1.4 People with long-term illnesses
 - KR1.5 Expatriate Finns
 - KR1.6 Disabled people
 - KR2 Businesses and non-government organizations
 - KR2.1 Businesses going international
 - KR2.2 Inventors
 - KR2.3 Businesses operating in the domestic (Finnish) market
 - KR2.4 Foreign entrepreneurs in Finland
 - KR2.5 Large companies
 - KR2.6 Employers
 - KR2.7 Non-government organizations
 - KR2.8 Finnish startups
 - KR3 Authorities
- Life events classes of citizens' public services

Citizens > Children and families with children

PREFERRED TERM **KR1.2 Children and families with children**

BROADER CONCEPT KR1 Citizens

IN OTHER LANGUAGES Lapsset ja lapsiperheet Finnish
Barn och barnfamiljer Swedish

URI <http://urn.fi/URN:NBN:fi:au:ptvl:v2003>

Download this concept: RDF/XML TURTLE JSON-LD

Julkisten palvelujen luokitus

Content language English Search

Alphabetical Hierarchy

- Classification of public service producer organization types
- Classification of public service production types
- Classification of public services
- Classification of public services target groups
- Life events classes of citizens' public services
 - **KE1 Having a child**
 - KE1.1 Adoption
 - KE10 Retirement
 - KE11 Falling seriously ill
 - KE12 Rehabilitation
 - KE13 Giving informal care
 - KE14 Death of a close family member
 - KE2 Conscription
 - KE3 Beginning full-time studies
 - KE4 Moving
 - KE5 Immigrating to Finland
 - KE6 Building a home
 - KE7 Divorce
 - KE8 Losing a job
 - KE9 Burdened by debt

PREFERRED TERM **KE1 Having a child**

NARROWER CONCEPTS KE1.1 Adoption

IN OTHER LANGUAGES Lapsen saaminen Finnish
Att få barn Swedish

URI <http://urn.fi/URN:NBN:fi:au:ptvl:v3001>

Download this concept: RDF/XML TURTLE JSON-LD



Suomi.fi
classification
Target group,
Service class,
Life Event

Information and services for citizens



Living together and having a family

- > Living together
- > Having children
- > Difficulties and crises in the family
- > Death of a close family member



Social security

- > Services for people with disabilities
- > Services for the elderly
- > Income support
- > Guardianship



Health and medical care

- > Staying healthy
- > Falling ill
- > Nutrition and food
- > Rehabilitation
- > Substance abuse and mental health



Teaching and education

- > Pre-primary education and schooling
- > Studying
- > Livelihood and social assistance of students
- > Science and research



Working life and unemployment

- > Applying for work and career planning
- > Starting a business
- > Unemployment
- > Rules of working life



Housing and construction

- > Purchasing a home
- > Construction and properties
- > Migration and population information



Rights and obligations

- > Fundamental rights and civic activity
- > Legislation and legal protection
- > Court proceedings and criminal matters
- > Security and public order
- > Digital support and administrative services



Personal finances

- > Managing your personal finances
- > Retiring
- > Taxation and public finances
- > Consumer protection



Moving and travelling

- > Moving to Finland
- > Moving from Finland and living abroad
- > Travel and transport



Living together and having a family

LIVING TOGETHER

HAVING CHILDREN

Pregnancy and parenthood

Pregnancy

Leave and benefits for the parents of small children

Confirming the paternity of a father or the maternity of another mother

Naming your child

Child care and childhood education

Infertility treatments and adoption

DIFFICULTIES AND CRISES IN THE FAMILY

DEATH OF A CLOSE FAMILY MEMBER

Leave and benefits for the parents of small children

As the parent of a small child, you have the right to certain types of family leave, such as maternity, paternity or parental leave. Remember to tell your employer in good time if you are taking leave and how long you will be away from work.

While on family leave you can receive family benefits from Kela or, in certain cases if you are employed, a salary. Remember also to apply to Kela for a maternity allowance and child benefit.

- + To which of the various types of leave am I as a mother or father entitled?
- + How do the various types of family leave differ?
- + What benefits can I receive while on family leave?
- + What other financial support can families with children receive?
- + Do benefits differ depending on the type of household?
- + When must I inform my employer that I am taking family leave?
- + My child has suddenly become ill. Can I look after him/her at home?
- + I am employed. Do I accrue annual leave during a period of family leave?
- + I am unemployed. Can I take family leave and receive family benefit?

Service Class & Ontology Terms

What services can I get?

See related services and service channels.

[Go to services](#)



Enter once – deploy everywhere

Finnish Service Catalogue



Open API

The image shows a desktop browser view of the Kalevankankaan koulu page on Suomi.fi. The page includes a search bar, navigation tabs (Etusivu, Kansalaiselle, Yritykselle tai yhteisölle, Viranomaiselle, Tietoa Suor...), and a main content area with the school's name and address: Kalevankankaan koulu, Raviradantie 16, 50100 Mikkeli. A mobile app interface is overlaid on the right, displaying the same information in a compact format, including a map and contact details.

Enter once – deploy everywhere

Suomi.fi

ahvenisjärven hammashoitola

Etusivu **Kansalaiset** Yritykset ja yhteisöt

Ahvenisjärven hammashoitola

Tietoja **Palvelut**

Ahvenisjärven hammashoitola palvelee sinua suun terveydenhuoltoon liittyvissä kysymyksissä.

Käyntitiedot

Opiskelijankatu 29
33720 Tampere

Palvelupaikka kartalla

Muut yhteystiedot

Verkkosivu
[Hammashoitolat](#)

Vastuorganisaatio: Tampereen kaupunki

Alle kouluikäisten suun terveydenhuolto

Alle kouluikäisille lapsille järjestetään suun terveystarkastuksia. Niihin kutsutaan 4-vuotiaita lapsia. Tämän lisäksi tehdään yksilöllisen tarpeeseen perustuvia suun terveydenhuoltoja.

Asiasanat: lasten terveydenhuolto, terveystarkastukset

LISTANA KARTALLA

Hae listalta...

Tampereen kaupunki

Ahvenisjärven hammashoitola

Ahvenisjärven hammashoitola palvelee sinua suun terveydenhuoltoon liittyvissä kysymyksissä.
Käyntiosoite Opiskelijankatu 29, 33720 Tampere
Kotisivu <http://www.tampere.fi/sosiaali-ja-terveyspalvelut/terveyspalvelut>

Aleksanterin hammashoitola

Aleksanterin hammashoitola palvelee lapsia suun terveydenhuoltoon liittyvissä kysymyksissä.
Käyntiosoite Hallituskatu 26, 33200 Tampere
Kotisivu <http://www.tampere.fi/sosiaali-ja-terveyspalvelut/terveyspalvelut/suun-terveydenhuolto/hoitolat.html>

Hatanpään terveysaseman hammashoitola

Hatanpään terveysaseman hammashoitola palvelee sinua suun terveydenhuoltoon liittyvissä kysymyksissä.
Käyntiosoite Hatanpäänkatu 24, 33100 Tampere
Kotisivu <http://www.tampere.fi/sosiaali-ja-terveyspalvelut/terveyspalvelut/suun-terveydenhuolto/hoitolat.html>

KOHDENNA PERHELLESI

TAMPEREEN
Perheiden palveluita

Viljelmän EU:lta 2014–2020

TAMPERE
TAMMERFORS

Lamminpää, Tesoma, Lielähti, Niihama, Kalkku, Raahola, Pispala, Amuri, Kaleva, Nikke, Villilä, Pitkäniemi, Hatanpää, Hakametsä, Nuoliala, Nekala, Messukylä, Härmälä, Kauhajärvi

Ennen syntymää

- > Aaltysneuvolassa käynti
- > Perhevalmennukseen
- > Tukea odotukseen ja vauva-arkeen
- > Isyyden tunnistaminen
- > Hammashoito raskausaikana

Vauvaikäinen

- > Ristiläiset vai nimiläiset?
- > Tukea odotukseen ja vauva-arkeen
- > Vauvan ja vanhemman yhteinen harrastaminen
- > Päivähoitopaikan etsiminen
- > Isyyden selvittäminen
- > Hammasneuvolaan

Päiväkoti- ja kerhoikäinen

- 1 > Lastenneuvolassa käynti
- 2 > Päivähoitopaikan etsiminen
- 3 > Kerhot

- > Hammassääkäriin
- > Puheterapiaan
- > Harrastukset ja vapaa-aika

Esi- ja alakouluikäiset

- > Esiopetuksen aloittaminen

Yläkouluikäinen

- > Rippikouluun tai protulle?

Itsenäistynvä nuori

- > Harrastukset ja vapaa-aika

<http://tampereenpalvelut.fi/lapsiperheet/>



Thank you!

Contact: ptv-tuki@dvv.fi

<https://palveluhallinta.suomi.fi/fi/sivut/palvelutietovaranto/esittely>

Agenda



- 1 Introduction and objectives
- 2 Context and presentation from Finland
- 3 Update of the CPSV-AP tools**
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Update of the CPSVAP tools : overview

1. CPSV-AP Toolbox
2. Roadmap for the update of the tools:
Description Editor and Harvester
3. Survey results
4. Requirements and options
5. Next steps
6. Data Validator



CPSV-AP Toolbox

Input:

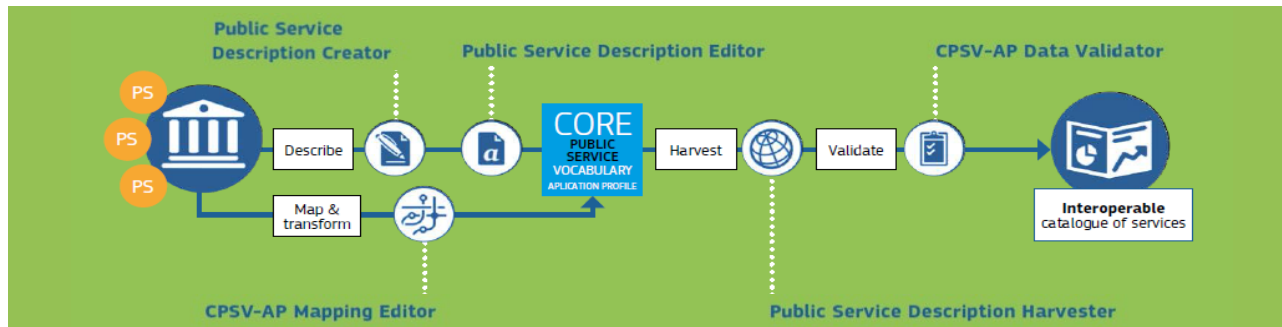
Member State data model

Tools:

- Description Creator
- Mapping Editor
- **Description Editor**
- **Description Harvester**
- **Data Validator**

Output:

Common data model used for building an interoperable catalogue of services



Current development by ISA²

Analysis done: most interest in **Description Editor** and **Harvester**

Data validator: replaced by ISA² Interoperability Testbed

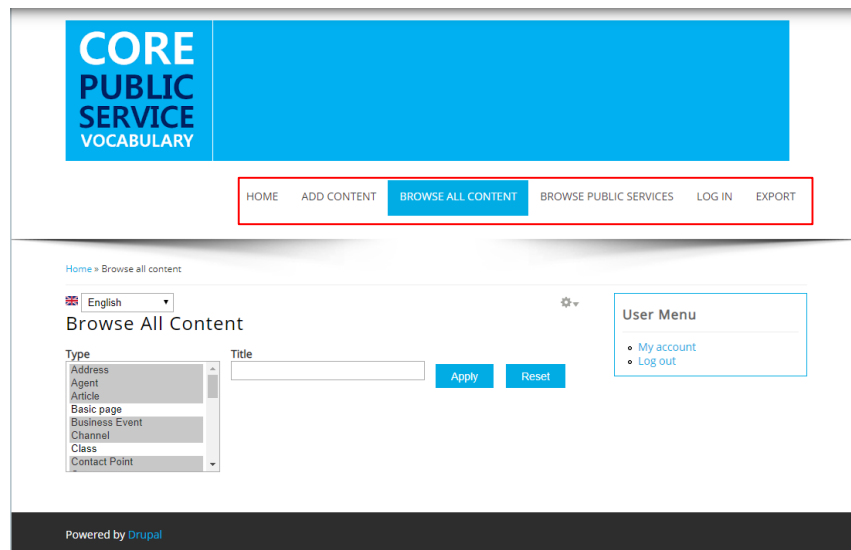
Description Editor

Description:

Describing and editing public service descriptions

Functionalities:

- **Create** and **manage** CPSV-AP descriptions of public services.
- **Visualize** description readable by humans.
- **Export** in machine readable format.



The screenshot displays the user interface for the CORE PUBLIC SERVICE VOCABULARY. At the top, there is a blue header with the text "CORE PUBLIC SERVICE VOCABULARY". Below the header is a navigation bar with several menu items: HOME, ADD CONTENT, BROWSE ALL CONTENT (highlighted in blue), BROWSE PUBLIC SERVICES, LOG IN, and EXPORT. The main content area shows a breadcrumb trail "Home > Browse all content" and a language selector set to "English". The title "Browse All Content" is displayed above a search form with a "Title" input field and "Apply" and "Reset" buttons. On the left, there is a "Type" dropdown menu with options: Address, Agent, Article, Basic page, Business Event, Channel, Class, and Contact Point. On the right, there is a "User Menu" with options: My account and Log out. The footer of the page indicates "Powered by Drupal".

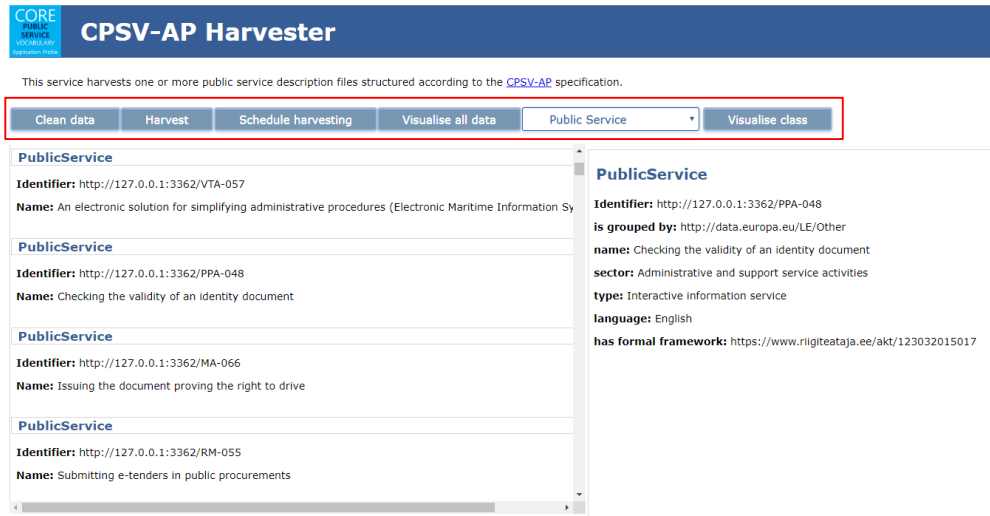
Harvester

Description:

Harvesting CPSV-AP compliant data: gathering data from different sources to a central point.

Functionalities:

1. Clean data
2. Harvest
3. Schedule harvesting
4. Visualize all data/visualize class



The screenshot shows the 'CPSV-AP Harvester' web interface. At the top, there is a blue header with the 'CORE PUBLIC SERVICE OBSERVATORY' logo and the title 'CPSV-AP Harvester'. Below the header, a navigation bar contains buttons for 'Clean data', 'Harvest', 'Schedule harvesting', 'Visualise all data', 'Public Service' (with a dropdown arrow), and 'Visualise class'. A red box highlights this navigation bar. The main content area displays a list of 'PublicService' entries. Each entry shows its 'Identifier' (a URL), 'Name', and a brief description. The right-hand side of the interface shows a detailed view of a selected 'PublicService' entry, including its 'Identifier', 'is grouped by', 'name', 'sector', 'type', 'language', and 'has formal framework'.

Roadmap for the update of these tools

Oct - Nov	Survey sent out to Member States for the requirements for updating the tools.
Nov - Dec	Analysis of the survey for business and technical requirements.
23 Jan 2020	Presentation of the proposed updates to be done for the tools and additional feedback from you.
Jan - Feb	Technical implementation of the updates for the CPSV-AP Description Editor and Harvester.
21 Feb 2020	Workshop on the Catalogue of Public Services, SDG data model, classifications and tools.
April	Release of the updated tools on GitHub and Joinup.



Survey statistics:

Description Editor and Harvester

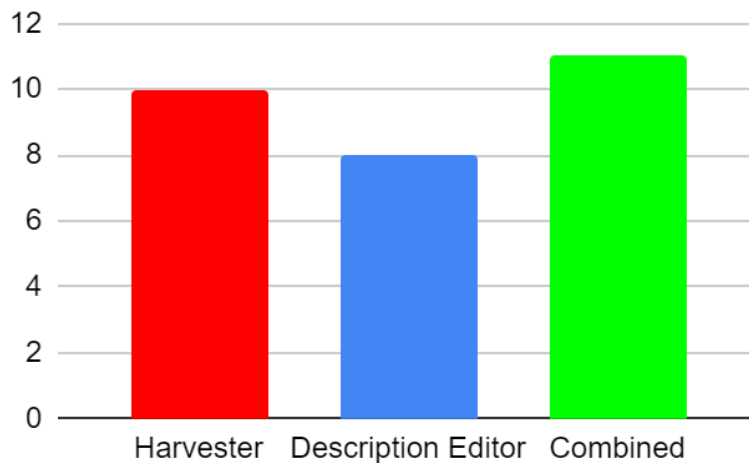
Respondents Survey

#unique country respondents

Harvester: 10 countries

Description Editor: 8 countries

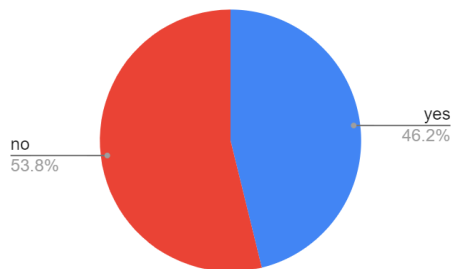
Total: 11 countries



Survey statistics - Awareness of the tools

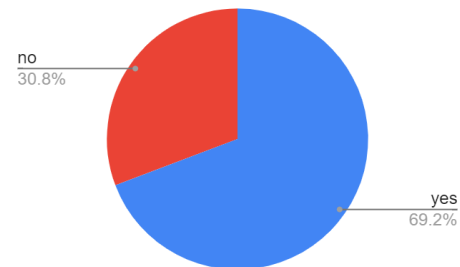
Respondents heard about
the Harvester

46,2%



Respondents heard about the
Description Editor

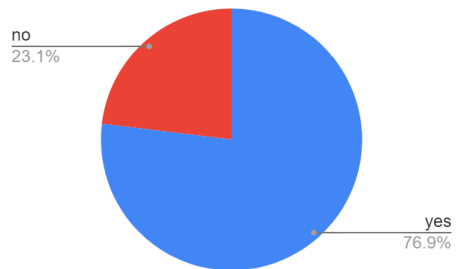
69,2%



Survey statistics - Awareness of the tools

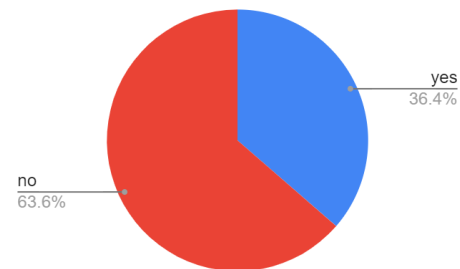
Respondents interested in receiving support

76,9%



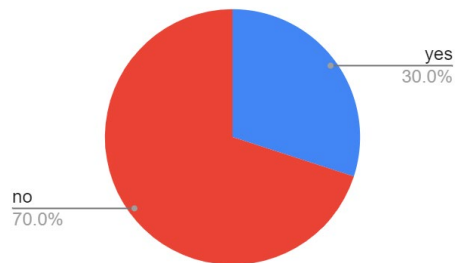
Usage of CPSV-AP

36,4%



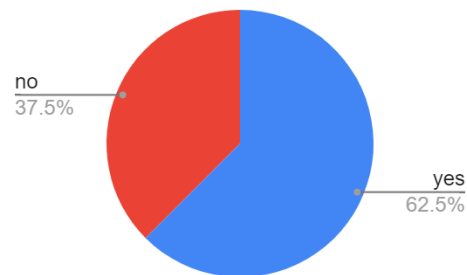
Survey statistics - Awareness of the tools

Interest in Harvester **30%**



Question in online survey:
Would you consider using the CPSV-AP
Harvester with your own tools?

Interest in
Description Editor **62,5%**



Question in online survey:
Would you be interested in using the
Description Editor?

Requirements for the update of the tools

- Requirements identified from Member States that filled in the survey
- Requirements identified ourselves for the improved basic functionality of the tools
- Next steps



Requirements: Description Editor

Link:
http://cpsv-ap.semic.eu/cpsv-ap_editor/

Requirements - Description Editor

Requirement

Improve the search functionalities in the tool

Details

More search and filter options in browsing

[Home](#) » Browse public services

English

Browse Public Services

Keyword

Search in description

Apply



English

Browse public services

Language

Bulgarian
Croatian
Czech

Title

Search in description

Keywords

Public Organisation

- Any -

Sort by

updated/commented most recently

Apply Reset

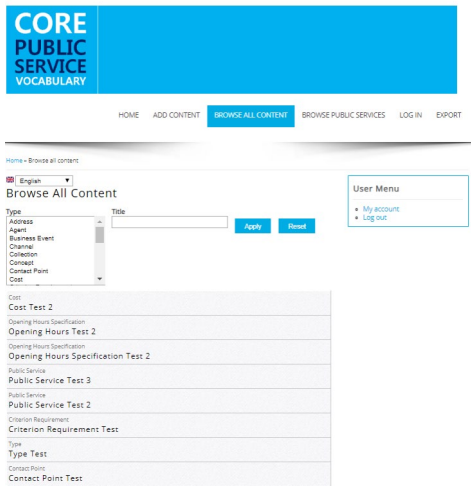
Requirements - Description Editor

Requirement

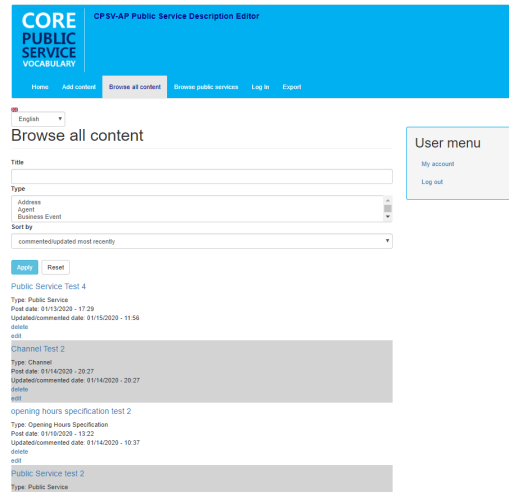
Improve the layout of the Description Editor

Details

Better readability (filters one column, alternating colours output result, more information from the results), more mobile friendly



The screenshot shows the current interface for the CORE Public Service Vocabulary. The header includes the logo and navigation links: HOME, ADD CONTENT, BROWSE ALL CONTENT, BROWSE PUBLIC SERVICES, LOG IN, EXPORT. The main content area is titled 'Browse All Content' and features a search bar, a 'User Menu' with 'My account' and 'Log out' options, and a list of results. The results are displayed in a single column with alternating row colors. The list includes items like 'Cost Test 2', 'Opening Hours Specification', 'Public Service', and 'Criterion Requirement'.



The screenshot shows the proposed improved interface for the CORE Public Service Vocabulary. The header includes the logo and navigation links: HOME, ADD CONTENT, BROWSE ALL CONTENT, BROWSE PUBLIC SERVICES, LOG IN, EXPORT. The main content area is titled 'Browse all content' and features a search bar, a 'User menu' with 'My account' and 'Log out' options, and a list of results. The results are displayed in a single column with alternating row colors. The list includes items like 'Public Service Test 4', 'Channel Test 2', 'Opening hours specification test 2', and 'Public Service test 2'. The interface is more modern and user-friendly.

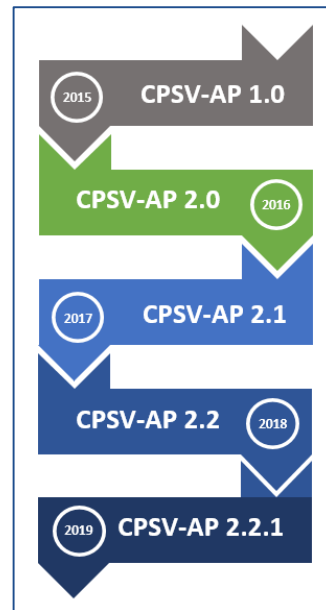
Requirements - Description Editor

Requirement

Update to the latest CPSV-AP release (2.2.1)

Details

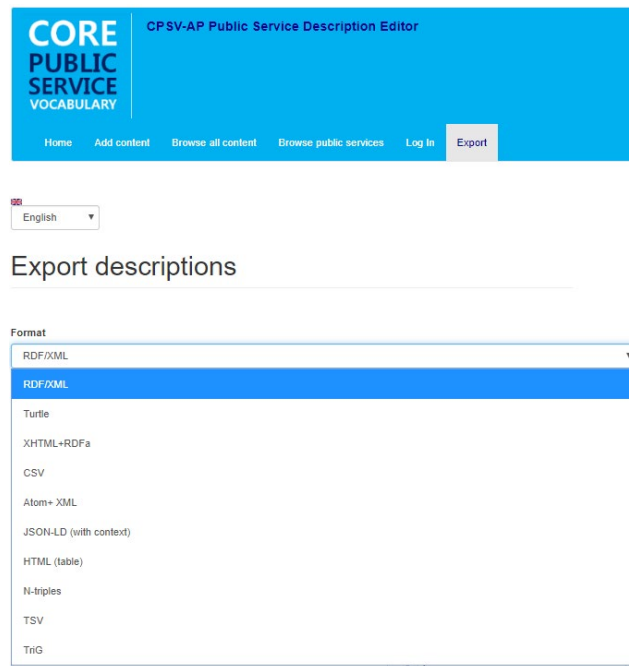
Complement the current CPSV-AP model with the updates of the latest release.



Requirements - Description Editor

Requirement	Export part of the content
Details	Currently all content needs to be exported at once. Export part of the data based on a filter applied.

Requirement	Support of additional data formats
Details	Atom+ XML, CSV, HTML table, JSON-LD, N-triples, RDF/XML, Trig, TSV, Turtle, XHTML + RDFa



CORE PUBLIC SERVICE VOCABULARY

CPSV-AP Public Service Description Editor

Home Add content Browse all content Browse public services Log In **Export**

English

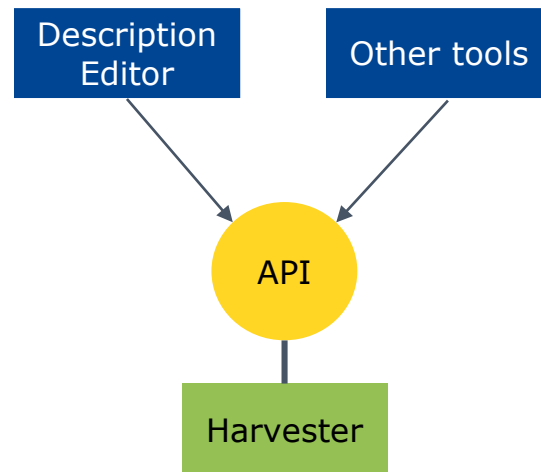
Export descriptions

Format

- RDF/XML
- RDF/XML
- Turtle
- XHTML+RDFa
- CSV
- Atom+ XML
- JSON-LD (with context)
- HTML (table)
- N-triples
- TSV
- TriG

Requirements - Description Editor

Requirement	Import data from other sources
Details	Connect to the CPSV-AP Harvester. The Description Editor can access the data harvested and edit this data.



Requirements:

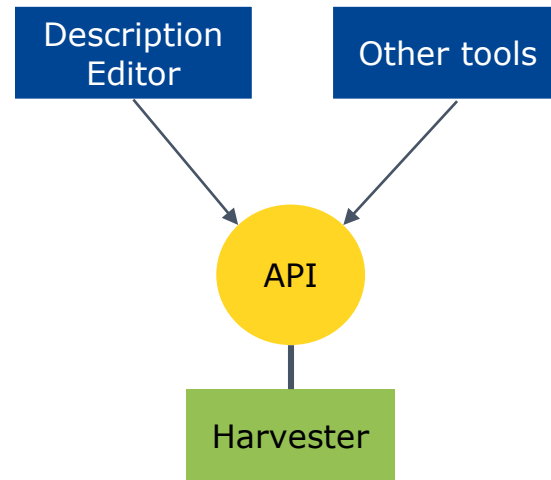
Harvester

Link:

http://cpsv-ap.semic.eu/cpsv-ap_harvester/cpsv-harvester.html

Requirements - Harvester

Requirement	Add an API such that external tools can connect
Details	The Description Editor can be considered as one tool together with the Harvester. Other tools can connect to Harvester.
Discussion	Would you connect your tools to the Harvester?



Requirements - Harvester

Requirement

Improve the guidance through the application, more user-friendly

Details

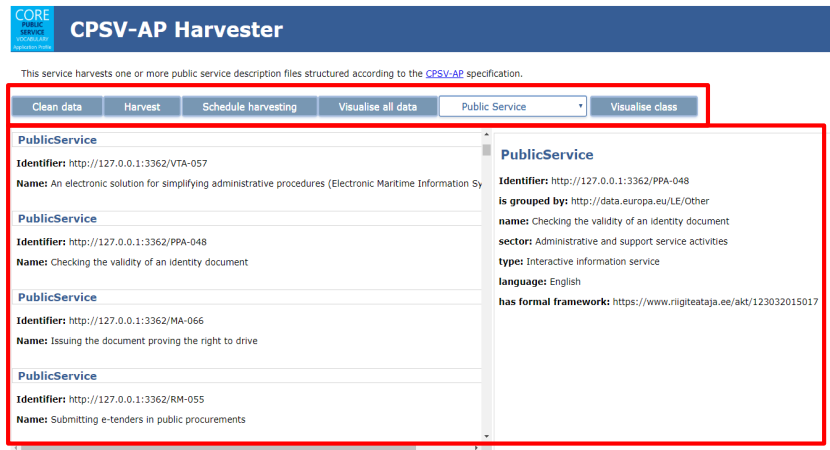
Create dynamic buttons with descriptions and information.

Requirement

Search and filter function

Details

Search and filter through the data which is harvested.



CORE Public Service **CPSV-AP Harvester**

This service harvests one or more public service description files structured according to the [CPSV-AP](#) specification.

Buttons: Clean data | Harvest | Schedule harvesting | Visualise all data | Public Service | Visualise class

PublicService	PublicService
Identifier: http://127.0.0.1:3362/VTA-057 Name: An electronic solution for simplifying administrative procedures (Electronic Maritime Information Sy	Identifier: http://127.0.0.1:3362/PPA-048 is grouped by: http://data.europa.eu/LE/Other name: Checking the validity of an identity document sector: Administrative and support service activities types: Interactive information service language: English has formal framework: https://www.rigiteataja.ee/akt/123032015017
PublicService Identifier: http://127.0.0.1:3362/PPA-048 Name: Checking the validity of an identity document	
PublicService Identifier: http://127.0.0.1:3362/MA-066 Name: Issuing the document proving the right to drive	
PublicService Identifier: http://127.0.0.1:3362/RM-055 Name: Submitting e-tenders in public procurements	

Requirements - Harvester

Requirement	Import from spreadsheet
Details	Import data from a spreadsheet into the Harvester, as a spreadsheet is commonly used for describing public services.
Discussion	Who is using a spreadsheet for their public services and why?

Tools: next steps

- Implementation of the tools during January/February
- Updated tools are available online
 - Description Editor: http://cpsv-ap.semic.eu/cpsv-ap_editor/
 - Harvester: http://cpsv-ap.semic.eu/cpsv-ap_harvester/cpsv-harvester.html
- Issues can be raised on GitHub
 - Description Editor: https://github.com/catalogue-of-services-isa/cpsv-ap_editor
 - Harvester: https://github.com/catalogue-of-services-isa/cpsv-ap_harvester

Discussion

Which tool would be interesting for you regarding the Single Digital Gateway and why?

Tools: further possible updates

Description Editor

- More complete translation of the website in the different languages of the Member States
- Offer linked data fragment API
- Put the Description Editor in a container for easy usage as a software package
- Security

Harvester

- Parse from HTML+RDFa pages
- Specify configuration from the web interface to choose the data to import instead of using the configuration files itself
- Visualize the data harvested as a linked data graph
- Improve the logging of harvesting and visualizing the data
- Security



CPSVAP validation services Interoperability Test Bed

ISA² Action 2016.25

Project Officer: Peter Burian

EUROPEAN COMMISSION

Directorate-General for Informatics (DIGIT)

The ISA² Interoperability Test Bed

An online, intuitive and self-service platform to realise conformance testing of IT systems against semantic and technical specifications

Test Bed value proposition (<https://www.itb.ec.europa.eu/docs/guides/latest/valueProposition/>)



Powered by DIGIT ISA² Action 2016.25



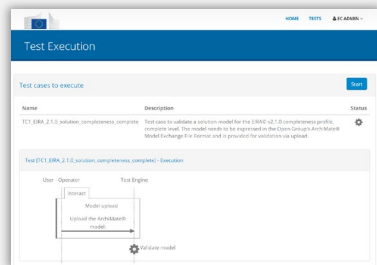
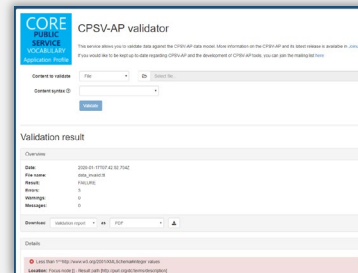
Based on the GITB CEN Workshop Agreement

CPSV-AP validation services

Standalone validator

- ✓ Public, anonymous and stateless
- ✓ REST/SOAP API, web UI, offline tool

1



ISA² Test Bed

- ✓ User-based self-service testing
- ✓ Conformance testing scenarios
- ✓ Rich monitoring and reporting

¹ Usage instructions in the Test Bed's [RDF validation guide](#)

Demo 1: CPSV-AP validator

- ✓ Validation of CPSV-AP content via user interface and REST API
- ✓ Demonstrates validator as a tool available to the community

Demo 2: Test Bed integration

- ✓ Aggregation of Member State public service data in CPSV-AP
- ✓ EU portal harvests and aggregates data from EE and FI
- ✓ Demonstrates reuse of the validator in complex test scenarios



Find out more



ISA² Test Bed on Joinup

[Information](#) - [news](#) - [releases](#)

Online documentation

[Value proposition](#) - [tutorials](#) - [developer guides](#)

Try it yourself



Go to <https://www.itb.ec.europa.eu/itb> and click “Try out our demos”

Contact us



Send your questions, requests and feedback to DIGIT-ITB@ec.europa.eu



ISA² programme

You click, we link.

Stay in touch

ec.europa.eu/isa2

 **[@EU_isa2](https://twitter.com/EU_isa2)**



isa@ec.europa.eu

Run by the Interoperability Unit at DIGIT (European Commission) with 131€M budget, the ISA² programme provides public administrations, businesses and citizens with specifications and standards, software and services to reduce administrative burdens.

Agenda



- 1 Introduction and objectives
- 2 Context and presentation from Finland
- 3 Update of the CPSV-AP tools
- 4 CPSV-AP specification maintenance**
- 5 Upcoming activities and events

CPSV-AP specification maintenance

1. Status of the publication of the Controlled Vocabularies
 - a. NACE
 - b. NUTS
 - c. Taxonomy
 - d. Other
1. Open CPSV-AP issues per category (No SDG issues)
1. Discussion on the issues (No SDG issues)



Status of the publication of the controlled vocabularies (classifications) (1/2)

NACE ([Link](#))

The Publication's Office (OP) and Eurostat are working together to publish NACE as RDF

In progress:

- Definition of URIs
- Application profile (special properties and other Eurostat properties)

Tentative timeline:

- 18 March: Test publication
- 24 June: Publication

NUTS ([Link](#))

Should be online in the coming week(s). We will follow-up with OP. We will include a link in the next general communication.

Status of the publication of the controlled vocabularies (classifications) (2/2)

Taxonomy of public services (themes and patterns)

- Ready for publication
- Discussions ongoing on governance and maintenance

Other recommended controlled vocabularies created by the CoS Working Group

BusinessEvent Type | LifeEvent Type | Output Type | Channel Type

Your opinion counts:

What Controlled Vocabularies would you prefer to be published?

(Possible to add your own propositions)

2. GitHub issues overview per category

1. Old open issues
 - a. Public Service - Type - authoritative source of the codelist COFOG is not accessible for now #9 ([Link](#))
 - b. spatial - use of the Administrative Territorial Units by local public authorities #11 ([Link](#))
 - c. Definition of Participation class is unclear #22 ([Link](#))

1. Proposed additions
 - a. Link public service to UN 2030 Sustainable Development Goals #32 ([Link](#))
 - b. Link to the policy objectives of a service #44 ([Link](#))
 - c. Add a relation from Public Service Dataset to Public Service #35 ([Link](#))

1. Proposed changes
 - a. UML class diagram
 - b. RDF Schema
 - c. Definition of a property is no longer up-to-date
 - d. Agent: Alignment with DCAT-AP and CCCEV #36 ([Link](#))
 - e. Relation with Core Criterion #37 ([Link](#))

GitHub issues: old open issues

Public Service - Type - authoritative source of the codelist COFOG is not accessible for now #9 ([Link](#))

Description

Maxservais commented on Apr 15, 2019

Member + 😊 ...

During the webinar of the 10th of April 2019, it was explained that the authoritative source of the codelist COFOG referred to in the CPSV-AP specification v2.1 for dct:type of Public Service was no longer publicly available. As a result, it has been agreed that, for the time being, the issue would be left open on GitHub until the UN Nations address the issue but COFOG would be removed from the specifications of the CPSV-AP.

GitHub issues: old open issues

spatial - use of the Administrative Territorial Units by local public authorities #11
([Link](#))

- NUTS will be published soon

Definition of Participation class is unclear #22 ([Link](#))

Maxservais commented on Apr 10, 2019

Member

Author

+ 🗨️ ⋮

During the CPSV-AP Webinar of the 10th of April, it has been agreed that the task group would look into the definition of the membership class to check whether it is semantically equivalent to the Participation class.

GitHub issues: proposed additions

Linking a public service to policy objectives (UN 2030 Sustainable Development Goals) #32 #44

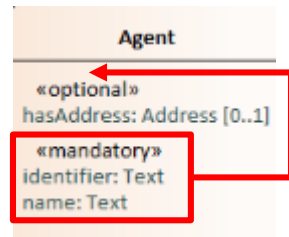
- UN Vocabulary ([Link](#))
- Scotland National Performance Framework ([Link](#))
- **Proposed solution:**
 - Recommend the UN vocabulary in the CPSV-AP pdf specification
 - 'policyObjective'

Add a relation from Public Service Dataset to Public Service #35

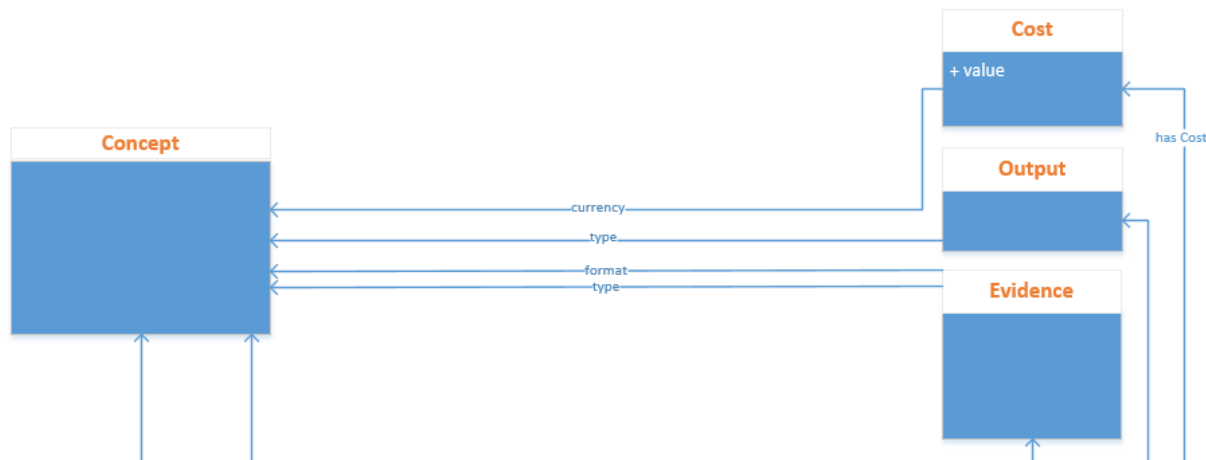
- [Pilot NL](#)
- **Proposed solution:**
 - Add relationship dct:hasPart

GitHub issues: proposed changes

UML class diagram: moving mandatory properties before optionals #33 ([Link](#))



UML class diagram: make links to SKOS concepts explicit #34 ([Link](#))



GitHub issues: proposed changes

Agent: Alignment with DCAT-AP and CCCEV #36 ([Link](#))

Description

- DCAT-AP uses foaf:Agent
- CCCEV uses foaf:Agent
- CPSV-AP uses dct:Agent
- CPOV has Organization which is a subclass of org:Organization, which in turn is a subclass of foaf:Agent
- Dublin Core says *"A resource that acts or has the power to act."*, we say *"things that do stuff"*. As nobody has provided a counter-example of something fitting one definition but not the other, we say here that foaf:Agent stands in an 'equivalent class' relationship to dct:Agent (and vice-versa)."

Proposed resolution

- To align with DCAT-AP, CCCEV and CPOV, change dct:Agent to foaf:Agent

GitHub issues: proposed changes

Relation with Core Criterion #37 ([Link](#))

Description (1)

- [CCCEV](#) Criterion `isDefinedIn` CPSV-AP
- CCCEV **Criterion**: The Criterion class represents the rule or principle used to judge, evaluate or assess something.
 - Example: `Entitlement to enter [the cinema]`
- CCCEV **CriterionRequirement**: A Criterion can be expressed as a set of requirements where every requirement must be valid. A Criterion requirement is an atomic requirement.
 - Example: `Hold a cinema ticket`
 - Example: `Has to be over over 18`
- CPSV-AP **hasCriterion**: Links a Public Service to a class that describes the criteria for needing or using the service, such as residency in a given location, being over a certain age etc. The Criterion class is defined in the Core Criterion and Core Evidence Vocabulary.

GitHub issues: proposed changes

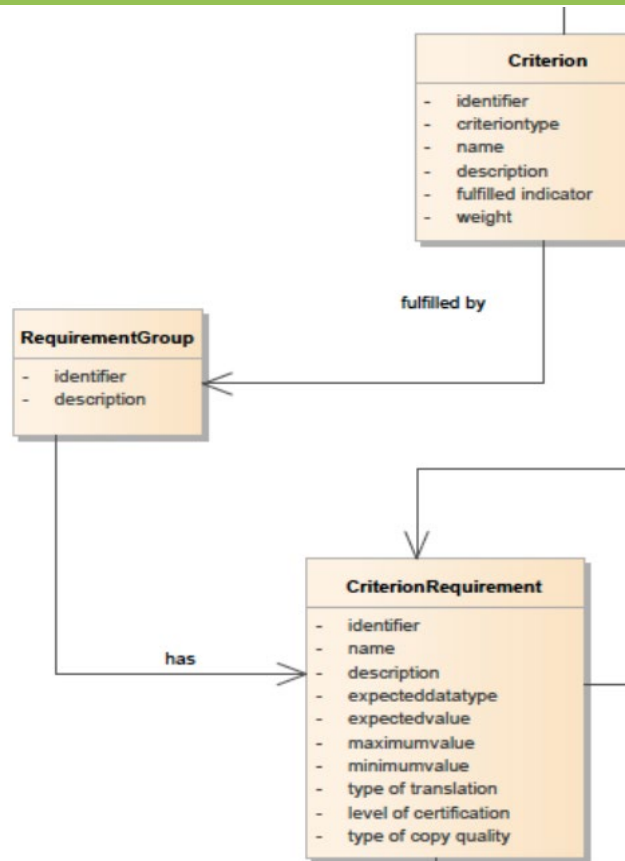
Relation with Core Criterion #37 ([Link](#))

Description (2)

- Only in simple cases it is possible to refer to 'CriterionRequirement'
 - Example: You have to be 65+ [to enjoy a financial benefit]
- In complex cases this will not work
 - Example: You have to be less than 25 and have an income lower than 1500 euro per month or you have to be older than 65 and have an income lower than 1500 euro.

Proposed resolution

Change the relation 'Public Service' to 'CriterionRequirement' into 'Public Service' to 'Criterion'.



[Link to CCCEV model](#)

GitHub issues: proposed changes

RDF Schema: add ISA Open Metadata license #38 ([Link](#))

Description

- DCAT-AP uses [CC BY 4.0](#)
- COMMISSION DECISION of 22.2.2019 adopting Creative Commons as an open licence under the European Commission's reuse policy ([Link](#))

Proposed resolution

- Use CC BY 4.0 in alignment of DCAT-AP

RDF Schema: dct:status does not exist, adms:status yes #39 ([Link](#))

Description

In the RDF schema there is indication of dct:status at ontology level while it should be adms: status

Proposition

Replace dct:status with adms:status

GitHub issues: proposed changes

RDF Schema: add subclass relation for BusinessEvent and LifeEvent #40 ([Link](#))

Description

In the UML class diagram BusinessEvent and LifeEvent are subclasses of Event but such relation is not in the RDF Schema.

Proposed resolution

Fix the RDF Schema by adding the subclass relations.

Definition of the property hasParticipation is no longer up-to-date #41 ([Link](#))

Description

The CPSV-AP defines the two basic roles of Competent Authority and Service Provider, but this simple model can be extended if required using the Has Participation property that links to the Participation class (see section 3.6).

Proposed resolution

The CPSV-AP defines one basic role of Competent Authority, but this simple model can be extended if required using the Has Participation property that links to the Participation class (see section 3.6).

GitHub issues: proposed changes

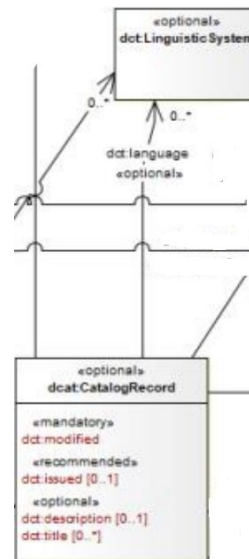
UML class diagram: make links to LinguisticSystem, Location, Document #45 ([Link](#))

Description

Inside the UML class diagram LinguisticSystem, Location and Document are not explicitly shown, like in DCAT-AP.

Proposed resolution

Visualise the classes LinguisticSystem, Location and Document in the UML diagram.



[Link to DCAT-AP model](#)

GitHub issues: proposed changes

Definition of the property "*requires*" is no longer up to date #46 ([Link](#))

Description

One Public Service may require, or in some way make use of, the output of one or several other Public Services. In this case, for a Public Service to be executed, another Public Service must be executed beforehand. The nature of the requirement will be described in the associated Rule or Input.

Proposed resolution

One Public Service may require, or in some way make use of, the output of one or several other Public Services. In this case, for a Public Service to be executed, another Public Service must be executed beforehand. The nature of the requirement will be described in the associated Rule or Evidence.



CPSV-AP issues

Your input is valuable!

Please share it via GitHub:

<https://github.com/catalogue-of-services-isa/CPSV-AP/issues>

Agenda



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Wrap-up

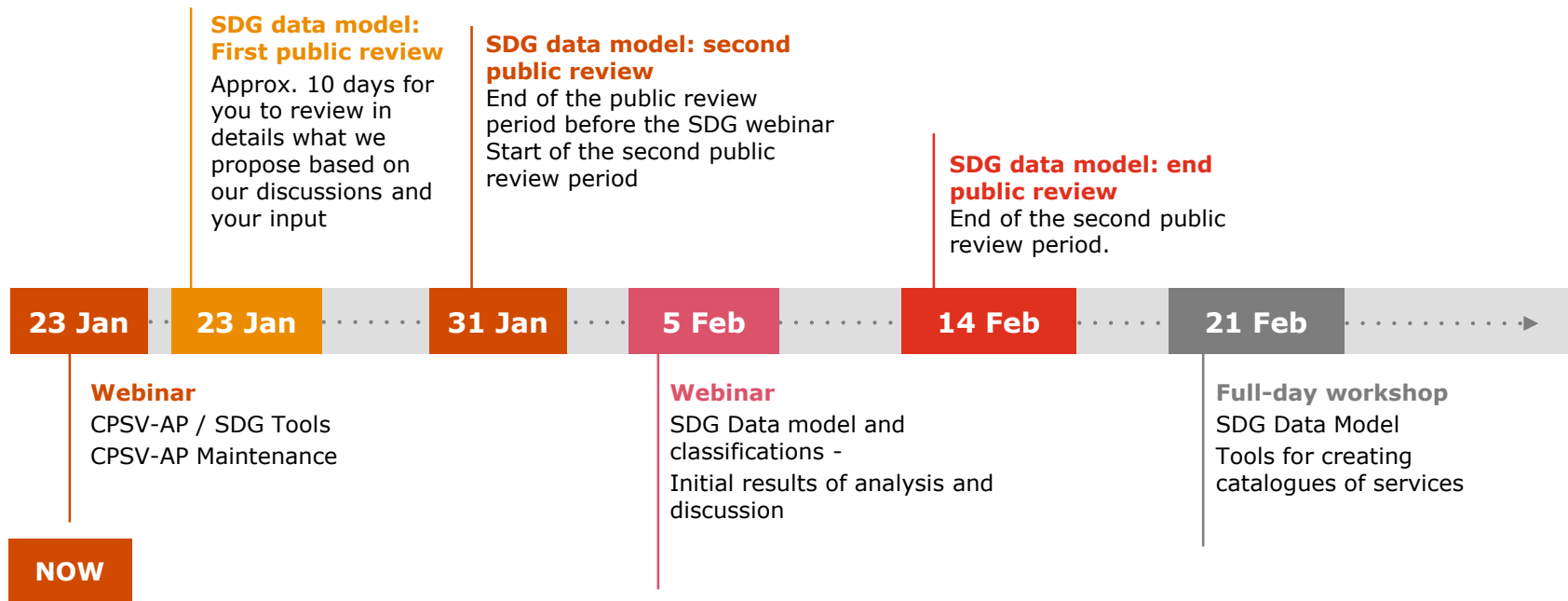
Our actions:

- Update the CPSV-AP specification
- Further develop the tools, make everything available online
- Release the SDG metadata model for public review

Contact us!

Email, GitHub, Joinup, ...

Upcoming events





Thank you!

Project Officer

Miguel Alvarez-Rodriguez Miguel.ALVAREZ.RODRIGUEZ@ec.europa.eu

PwC

Florian Barthélemy

barthelemy.florian@pwc.com

CPSVAP:

https://ec.europa.eu/isa2/solutions/core-public-service-vocabulary-application-profile-cpsv-ap_en

GitHub Repository CPSVAP:

<https://github.com/catalogue-of-services-isa/CPSVAP>

Single Digital Gateway:

https://ec.europa.eu/growth/single-market/single-digital-gateway_en