MIWP Action 2.3.2 'Data-service linking simplification'

MIG-T Sub-group 2.3.2
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70th MIG-T meeting – July 7st, 2022

MIWP Action 2.3.2
Data Service Linking Simplification - Overview

Part A. **Data - service linking simplification**
Good practice guidelines

https://github.com/INSPIRE-MIF/gp-data-service-linking-simplification/blob/main/proposals/JRC/ds-linking-simplification-good-practice.md

Part B. **Data - service linking simplification**
Remapping of Extended Capabilities

https://github.com/INSPIRE-MIF/gp-data-service-linking-simplification/blob/main/proposals/Part-B-team/Consolidated-proposal-Part-B.md

Part B. Remapping of Extended Capabilities Aim of the work

- Define an alternative mapping of INSPIRE service metadata elements to elements available in the Capabilities document of OGC OWS standard services (WMS, WFS) and Atom feeds.
- Avoid (as an option) the need for the INSPIRE Extended Capabilities section.
- Remove remaining obstacles in the implementation of INSPIRE requirements for network services due to the extensions required to software tools available in the market.

MIWP Sub-group 2.3.2
Part B. Remapping of Extended Capabilities

- 4 volunteer experts from 4 Member States: DK, FR, IT, NL
- Consolidated proposal ready and agreed by Part B – team
- Endorsed by the MIG-T as an INSPIRE Good Practice candidate
- Data-service linking simplification INSPIRE good practice fiche
- 3rd Meeting: 2022-06-21
- Focus on quality check issues

Data Service Linking Simplification - Part B: Remapping of the Extended Capabilities

`Version: draft 1.0` `Date: 2022-03-21`

Table of Contents

https://github.com/INSPIRE-MIF/gp-data-service-linking-simplification/blob/main/proposals/Part-B-team/Consolidated-proposal-Part-B.md

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Part B. Remapping of Extended Capabilities

- **Agreed new mapping**

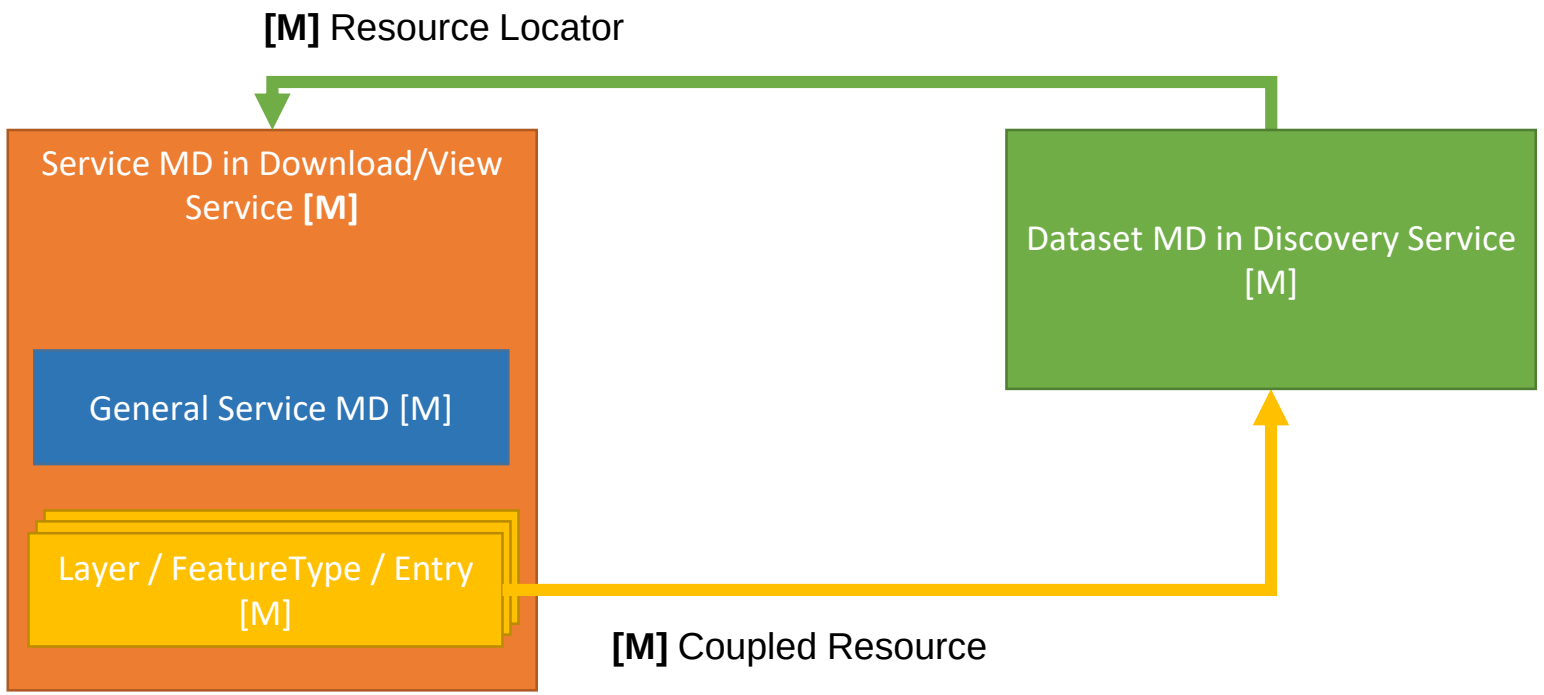
INSPIRE metadata elements	New allocation
Resource Type	No element mapped
Resource Locator	No element mapped
Spatial Data Service Type	**gmd:applicationProfile** element (in data set metadata record)
Temporal Reference	**updateSequence attribute** in the WMS_Capabilities/WFS_Capabilities root element.
	feed/updated element in the Atom feed
	Otherwise, **gmd:citation/gmd:CI_Citation/gmd:date/gmd:CI_Date/gmd:date** element in the data set metadata record, with one of the following prioritised date types:- *publication*, - *revision* or - *creation*
Conformity	**wms:Keyword** element for each specification against the service is conformant, included within an specific **wms:KeywordList** group.
	ows:Keyword element for each specification against the service is conformant, included within an specific **ows:Keywords** group including an ows:Type element of type URI.
	atom:category element for each specification against which the service is conformant.

Part B. Remapping of Extended Capabilities

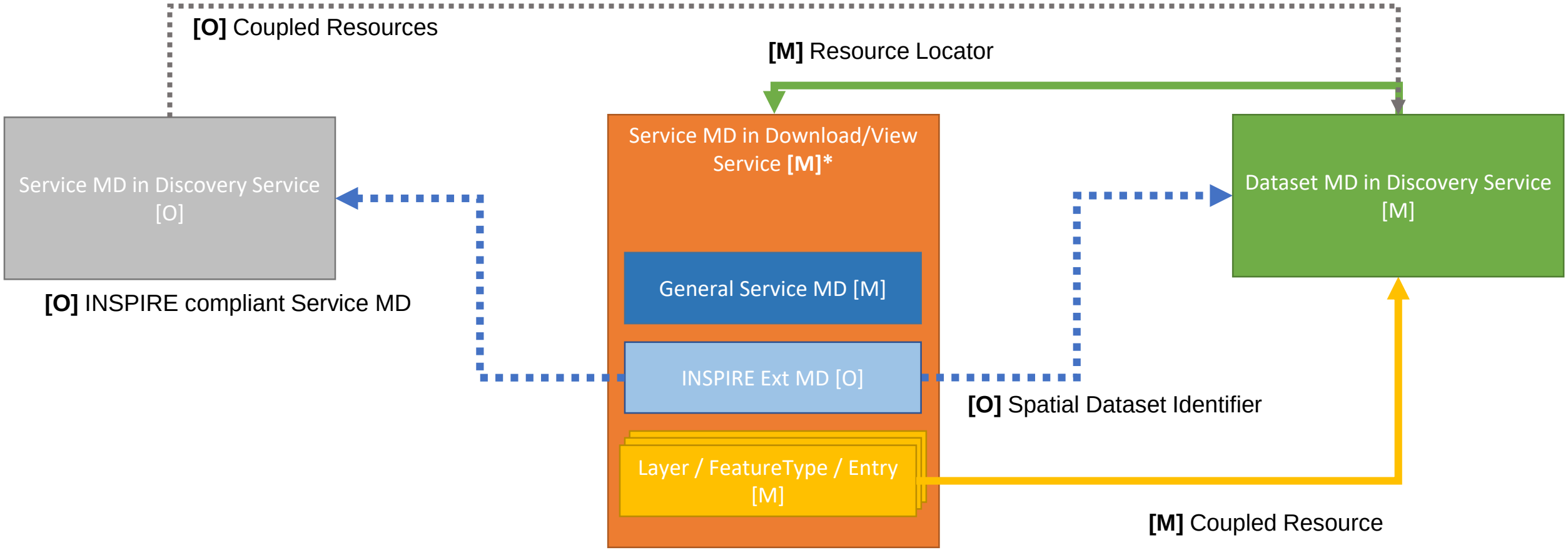
- **Agreed new mapping**

INSPIRE metadata elements	New allocation
Metadata Point of Contact	**WMS_Capabilities/Service/ContactInformation/ContactPersonPrimary/ContactOrganization** and **WMS_Capabilities/Service/ContactInformation/ContactElectronicMailAddress**
	WFS_Capabilities/ows:ServiceProvider/ows:ProviderName and **WFS_Capabilities/ows:ServiceProvider/ows:ServiceContact/ows:ContactInfo/ows:Address/ows:ElectronicMailAddress**
	<feed><author><name> and **<feed><author><email>**
Metadata Date	**updateSequence** parameter in the WMS_Capabilities/WFS_Capabilitiesroot element.
	<updated> element in the Atom feed.
	Otherwise, **gmd:citation/gmd:CI_Citation/gmd:date/gmd:CI_Date/gmd:date** element in the data set metadata record, with one of the following prioritised date types: - *publication*, - *revision* or - *creation*
Metadata Language	**gmd:MD_Metadata/gmd:language/gmd:LanguageCode** element in the data set metadata record for default language. **xml:lang attribute** for supported languages

INSPIRE model: simplified ([M] only)



INSPIRE model: simplified



Legend:

- In an INSPIRE Network Service – Scenario 2 implementation, this Service MD will contain all INSPIRE metadata elements; in a Scenario 1 implementation, this Service MD will not contain all INSPIRE metadata elements but contain a link to the the Service MD in the Discovery Service
- Regarding the Spatial Data Set Identifier; The IR on metadata is not including the Unique resource identifier as a required metadata element to be applied to services. The TG for Download and View services **are** using the 'Unique resource identifier' **to refer** to the Spatial Data Set. In the current INSPIRE Geoportal this used, in some cases, to establish a link between data and service **for quality control purposes**. The Coupled resource would be enough for data-service linking purposes, as is used **e.g.** in case of a WMS in the current INSPIRE Geoportal.

[M]: mandatory
[O]: optional

Quality checking consolidated proposals (Part A & Part B)

- Several issues to be revised, agreed and closed in GitHub.
  - Find typos.
  - Make refinements.
  - Revise consistency of changes proposed to TGs.

Quality checking consolidated proposals (Part A & Part B)

- Duplicate requirements / reorganisation requirements classes
- Keyword mapping for keywords from thesauri (WFS)
- Spatial data service category
- Missing requirements on the presence of a view service and download service
- Part B - Remapping of Extended Capabilities - About Unique Resource Identifier (inspire_dls:SpatialDataSetIdentifier)

The specific changes to TGs are outlined but (in most cases) still pending to be detailed

Part B. Remapping of Extended Capabilities

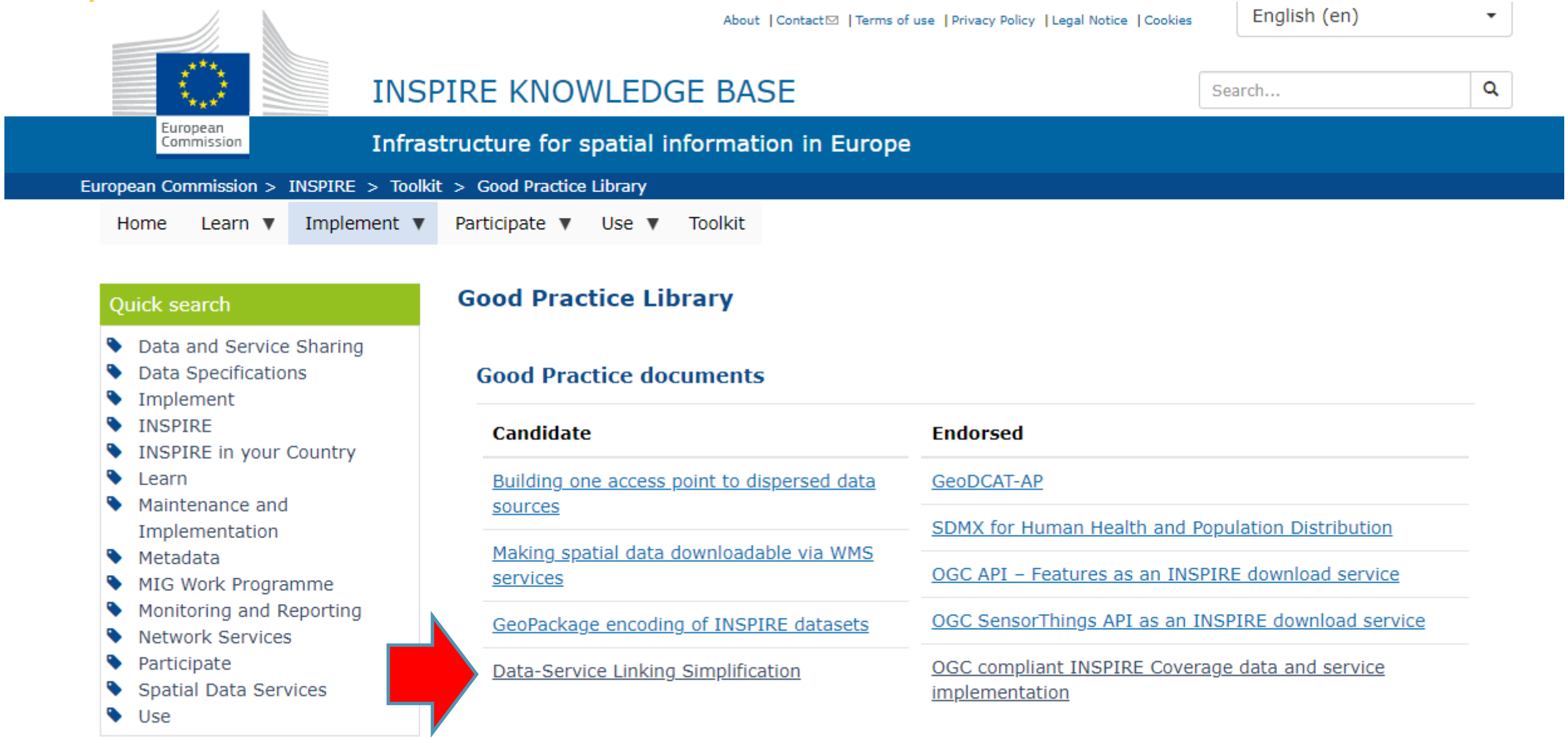
Unique Resource Identifier (referring to data set)

- Current mapping (in **INSPIRE NS - View/Download Service TGs**)

INSPIRE metadata elements	Elements of INSPIRE Extended Capabilities/Atom feed	Applicable on Service type
Unique Resource Identifier	`inspire_dls:SpatialDataSetIdentifier/inspire_common:Code` `inspire_dls:SpatialDataSetIdentifier/inspire_common:Namespace`	WFS
Unique Resource Identifier	*spatial_dataset_identifier_code* and *spatial_dataset_identifier_namespace*	Atom

- **Mapping proposed**

INSPIRE metadata elements	New allocation	Applicable on Service type
Unique Resource Identifier	**not mapped**, since the Coupled resource elements are sufficient to link information regarded to the spatial data set	WMS - WFS - Atom



INSPIRE Good Practice Library:
https://inspire.ec.europa.eu/portfolio/good-practice-library

Data-Service Linking Simplification Good Practice fiche:
https://inspire.ec.europa.eu/good-practice/data-service-linking-simplification

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Action 2.3.2 - Next steps
Next meeting

- Finish quality checking for consolidated proposals (Part A & Part B):
  - Refine documentation of consolidated proposals for Parts A and B.
  - Integrate them in a single proposal.
- Integrate the Final proposal for the Simplification TG:
  - Agree on (potential) remaining discussions derived from the Quality Checking.
  - Discuss the best approach to re-structure the affected TGs (e.g. adding a **third scenario** in NS TGs?).
  - Accordingly, propose the specific changes to TGs deemed necessary to accommodate the simplification approach into the INSPIRE framework.
  - Revision of consistency of changes proposed to TGs.

Action 2.3.2 - Next steps
Candidate INSPIRE Good Practice

- Come up with a single Final consolidated proposal (Merging Part A + Part B), including changes to detailed changes to TGs.
- Start the actions to ensure future support of the GP in the revamped INSPIRE Geoportal backend (in progress).
- Follow-up activities related to the INSPIRE GP process (Outreach, Submission for MIG endorsement, Feedback):

  https://inspire.ec.europa.eu/portfolio/good-practice-library

Action 2.3.2 - Next steps & Roadmap
Candidate INSPIRE Good Practice

- Quality Checking - Applying changes agreed ..... 15th July 2022
  (Consolidated proposals Part A and Part B)
- Specify detailed changes to TGs ..... 26th Sept 2022
- Final GP proposal (Part A + Part B) ..... 30th Sept 2022
- Presentation - 71st MIG-T Meeting ..... 6th-7th Oct 2022
- Good Practice outreach webinar ..... Mid-Oct 2022
- Potential endorsement - 15th MIG Meeting ..... TBD Nov 2022

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Thank you!

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