

# Upstream-Downstream Metadata Statistics

This page describes the current practice of federations with regard to upstream and downstream metadata publication. Additional information and a recommendation how to best handle local/eduGAIN metadata for a SAML-based identity federation can also be found on [Best Current Practices on Joining eduGAIN](#).

## Upstream Approaches:

- Full Opt-in.
- Full Opt-out.
- IdP Opt-in, SP Opt-Out.
- IdP Opt-out, SP Opt-in (**Recommended**)

## Downstream Approaches:

- Everything in local feed.
- Choose local or local+interfederation.
- Separate1 (all).
- Separate2 (IdP, SP).
- Separate3 (all,IdP, SP).
- Consume directly from MDS. (**Not recommended!**)
- Custom.

Federation	Upstream	Downstream
Armenia	Full Opt-Out	
<a href="#">Austria - eduID.at/ACOnet Identity Federation</a>	Full Opt-In	Entities choose either local or local+interfed feed
<a href="#">Australia</a>	Full Opt-In	
<a href="#">Belarus</a>	??	
<a href="#">Belgium - Belnet Federation</a>	Full Opt-In	Entities consume the MDS metadata directly
<a href="#">Brazil - CaFe</a>	Full Opt-In	Entities consume the MDS metadata directly
<a href="#">Canada - Canadian Access Federation</a>	Full Opt-In	Imported entities in a separate aggregate (all)
<a href="#">Chile - COFRé</a>	Full Opt-In	Imported entities into 2 separate aggregates (SP, IdP)
<a href="#">Colombia - COLFIRE</a>	Full Opt-In	Entities consume the MDS metadata directly
<a href="#">Croatia - AAI@EduHr</a>	IdP Opt-Out, SP Opt-In	Imported entities in main (local) aggregate
<a href="#">Czech Republic - eduID.cz</a>	Full Opt-In	Entities choose either local or local+interfed feed
<a href="#">Denmark - WAYF</a>	IdP Opt-In, SP Opt-Out	Currently working on new approach
<a href="#">Ecuador - MINGA</a>	Full Opt-In	Entities consume the MDS metadata directly
<a href="#">Estonia - TAAT</a>	Full Opt-In	Imported entities in 3 separate aggregates (all, SP, IdP)
<a href="#">Finland - HAKA</a>	Full Opt-In	custom metadata per entity
<a href="#">France - Fédération Éducation-Recherche</a>	IdP Opt-Out, SP Opt-In	Imported entities into 2 separate aggregates (SP, IdP)
<a href="#">Georgia - Grena Identity Federation</a>	Full Opt-In	unknown
<a href="#">Germany - DFN</a>	Full Opt-In	Imported entities into 2 separate aggregates (SP, IdP)
<a href="#">Greece - GRNET!</a>	Full Opt-In	Imported entities into 2 separate aggregates (SP, IdP)
<a href="#">Hungary - eduld.hu</a>	Full Opt-In	Imported entities in a separate aggregate (all)
<a href="#">India</a>	IdP Opt-Out, SP Opt-In	
<a href="#">Ireland - Edugate</a>	Full Opt-In	custom metadata per entity
<a href="#">Israel - IUCC Identity Federation</a>	Full Opt-In	Entities consume the MDS metadata directly
<a href="#">Italy - IDEM</a>	IdP Opt-Out, SP Opt-In	Imported entities in a separate aggregate (all)
<a href="#">Japan - GakuNin</a>	Full Opt-In	unknown

Korea	Full Opt-In	
Latvia - LAIFE	Full Opt-In	Imported entities in 3 separate aggregates (all, SP, IdP)
Lithuania - LITNET FEDI	Full Opt-In	Imported entities in 3 separate aggregates (all, SP, IdP)
Luxembourg - eduID Luxembourg	Full Opt-In	unknown
Macedonia	Full Opt-Out	
Moldova	Full Opt-Out	
Norway - FEIDE	Full Opt-In	Imported entities in a separate aggregate (all)
Poland - PIONIER.Id	Full Opt-In	Imported entities into 2 separate aggregates (SP, IdP)
Portugal - RCTSaai	Full Opt-In	unknown
Slovenia - ArnesAAI	Full Opt-In	Imported entities into 2 separate aggregates (SP, IdP)
South Africa - SAFIRE	IdP Opt-Out, SP Opt-In	Imported entities in a separate aggregate (IdP)
Spain - SIR	Full Opt-In	Entities consume the MDS metadata directly IdPs have custom feeds built
Sweden - SWAMID	IdP Opt-Out, SP Opt-In	Imported entities in main aggregate
Switzerland - SWITCHaai	Full Opt-In	Local feed + imported entities in 2 separate aggregates (SP, IdP)
The Netherlands - SURFconext	Full Opt-In	eduGAIN SPs need to be separately onboarded
U.S. - InCommon	IdP Opt-Out, SP Opt-In	Imported entities in main (local) aggregate
Ukraine - PEANO	Full Opt-In	Imported entities in a separate aggregate (all)
United Kingdom - UK federation	Full Opt-Out (IdP and SP)	Imported entities in main (local) aggregate