

Introduktion til IFC-arbejdet i den internationale buildingSMART-organisation

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Formand buildingSMART Nordic

Leder af buildingSMART Process Room

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Organisation

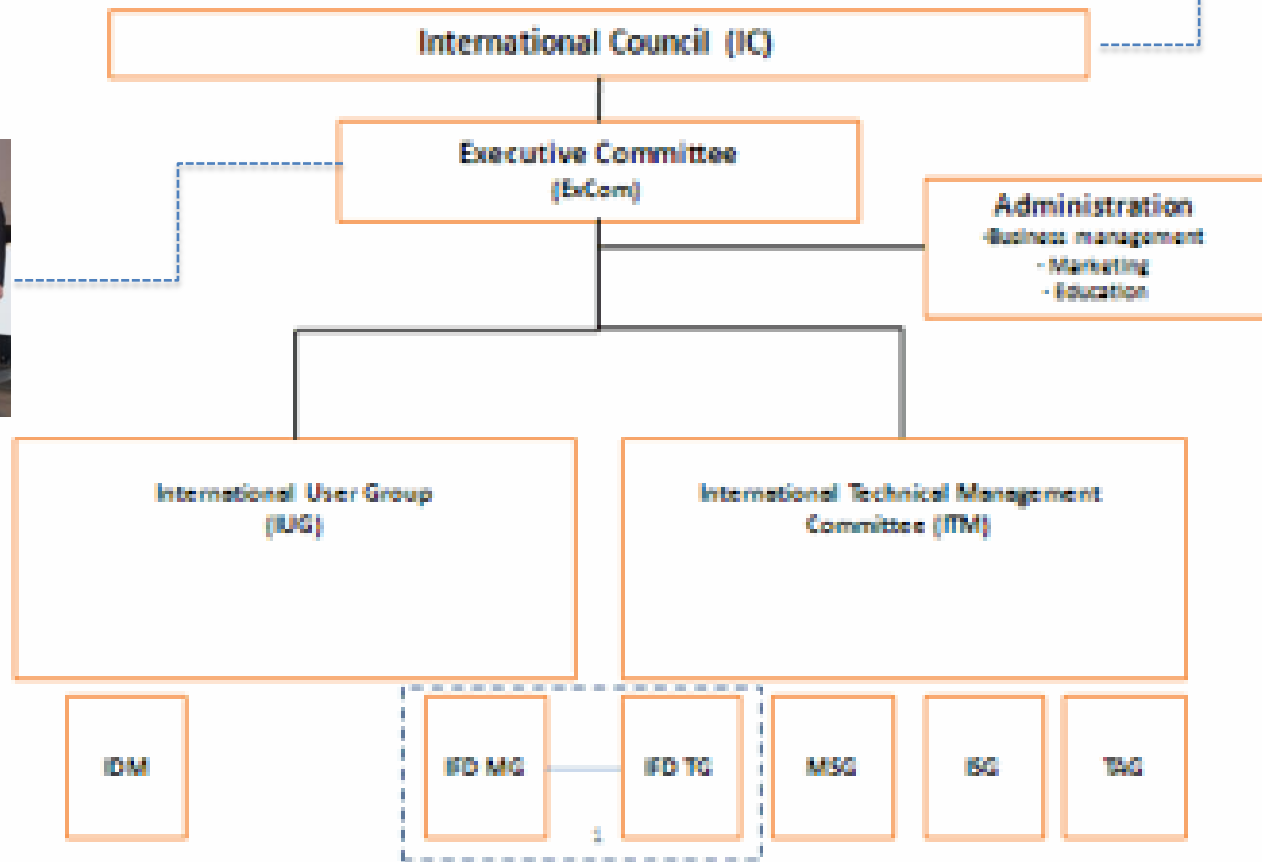
- **North America**
 - Canada
 - US
- **Europe:**
 - Benelux (Belgium, Netherland)
 - German-speaking countries (Austria, Germany, Switzerland)
 - French-speaking countries (France)
 - Italy
 - Nordic countries (Denmark, Finland, Sweden – Estonia as observer)
 - Norway
 - Spain (in formation)
 - UK and Ireland
- **Middle East**
 - MENA
- **Asia**
 - Japan
 - Korea
 - Singapore
 - China (special-interest group only as at end 2012)/Hong Kong
- **Australia/Pacific**
 - Australasia (Australia, New Zealand)



Organisation



Organisation chart



Økonomi

- **International kontingent**
 - 25.000 USD/y (144.000 kr./år) for fuldt medlemskab
 - Dansk internationalt bidrag 48.000 kr.
 - 10.000 USD (57.600 kr./år) for deltagelse
- **Regnskab for buildingSMART International 2012**
 - Omsætning 3.1 mio. kr. inkl. software certificering
 - 7.700 USD for eksport per applikation

Standardisering

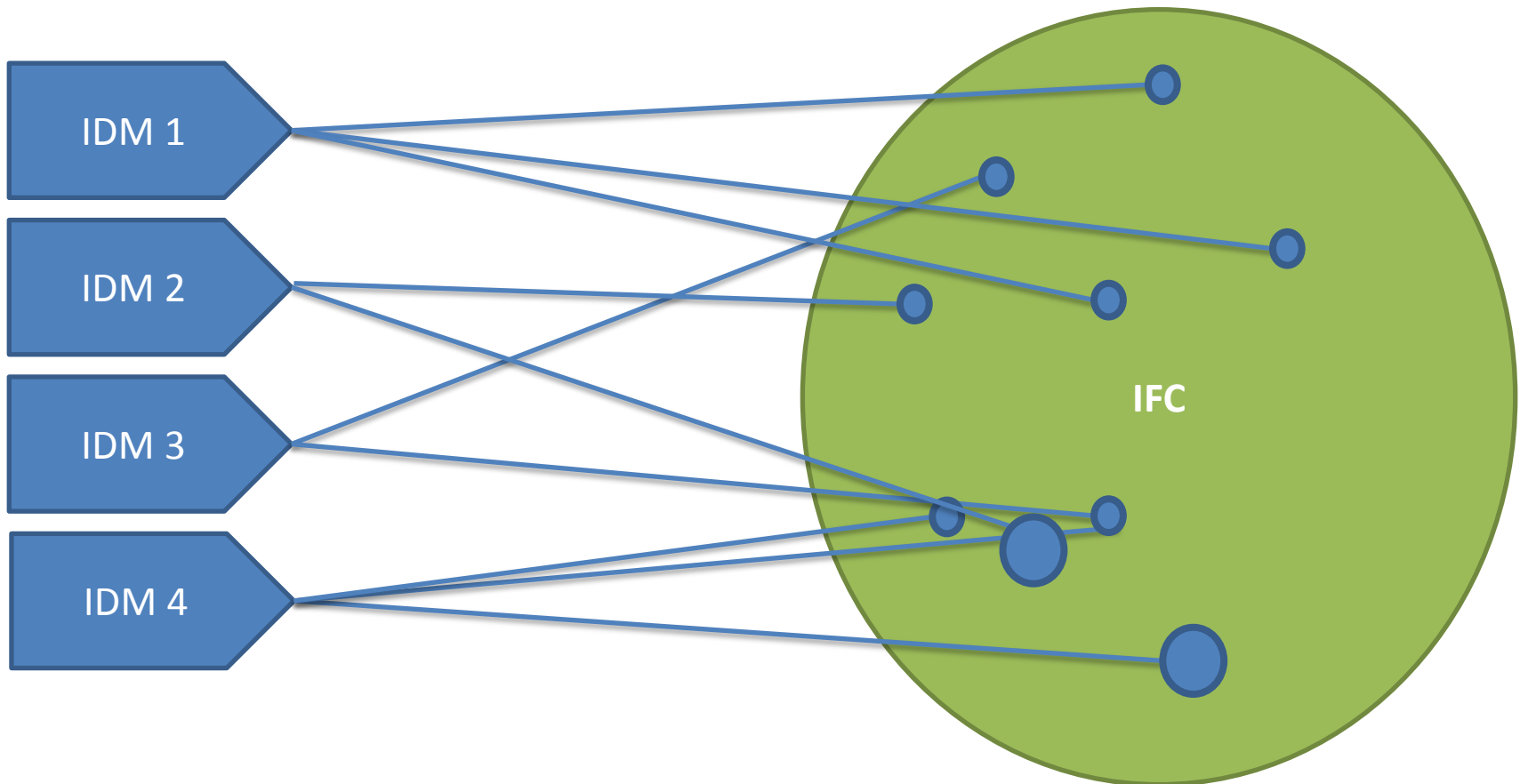
- **buildingSMART Data Model – IFC**
 - ISO 16739
- **buildingSMART Process – IDM**
 - ISO 29481 Part 1 og 2
- **buildingSMART Data Dictionary**
 - Baseret på ISO 12006-3

Implementering

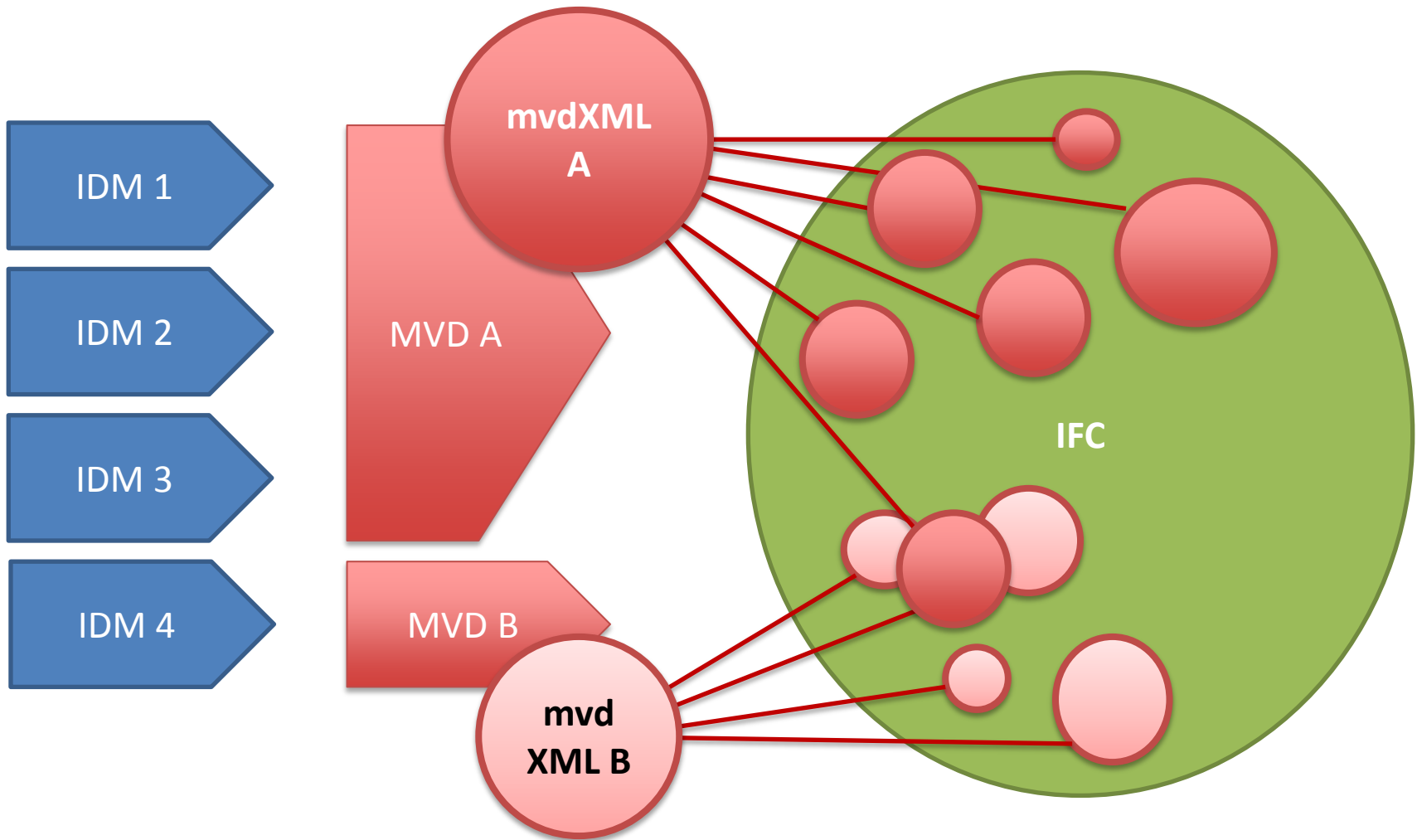


- Certificeret software: <http://www.buildingsmart-tech.org/certification/ifc-certification-2.0/ifc2x3-cv-v2.0-certification/participants>
- Hævder at have implementeret IFC: <http://www.buildingsmart-tech.org/implementation/implementations>

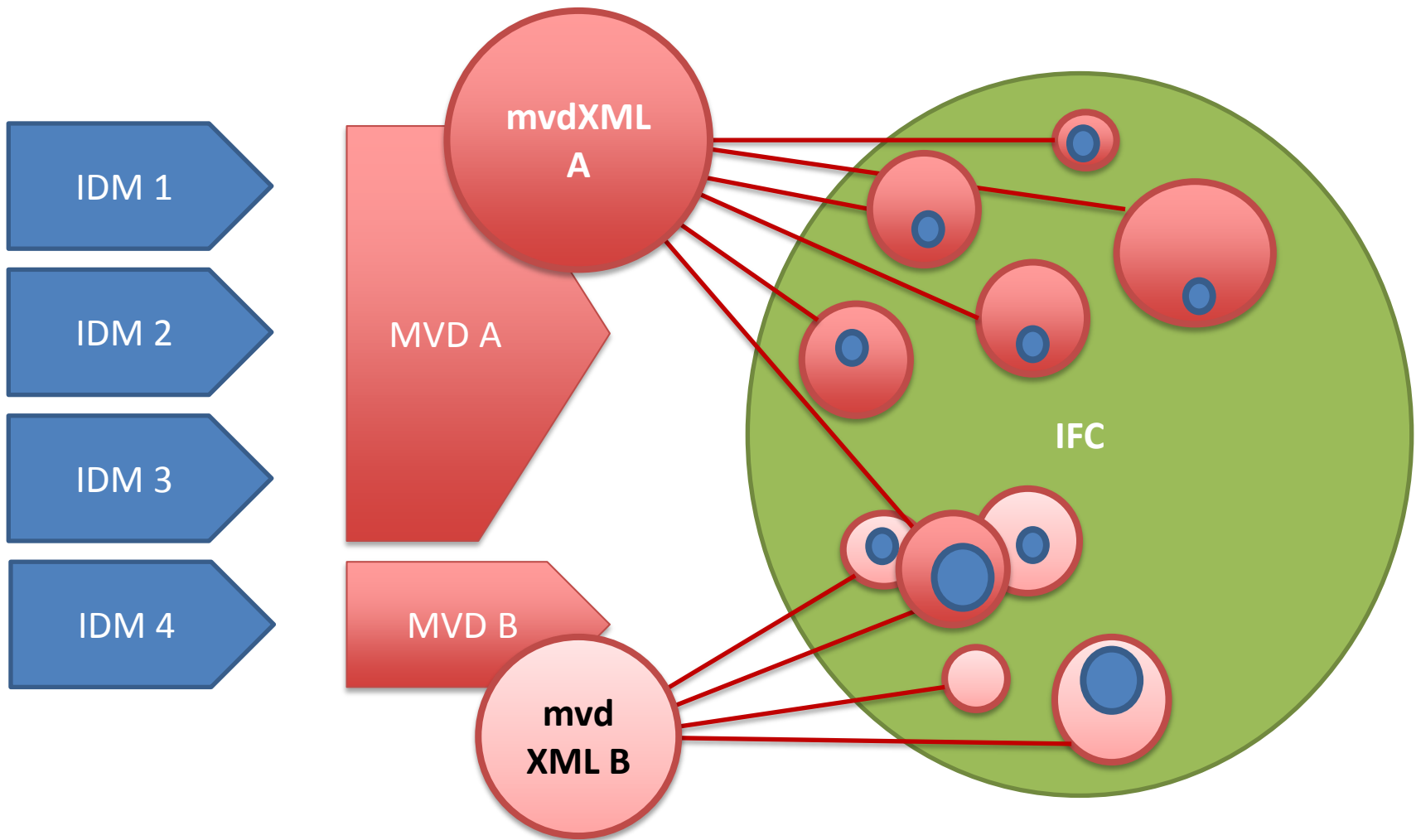
IDM, indirectly referring to a subset of IFC



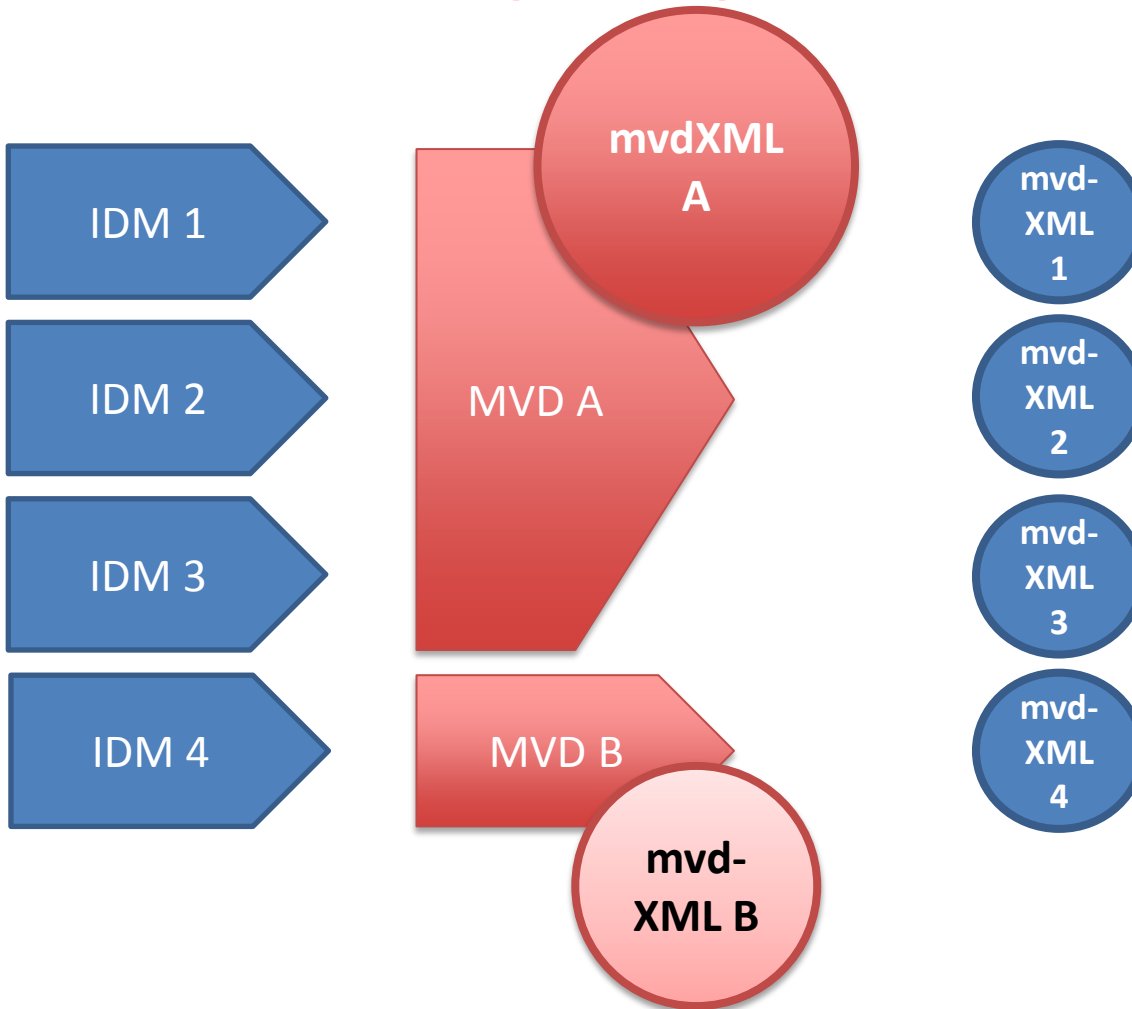
MVDs documented as mvdXML



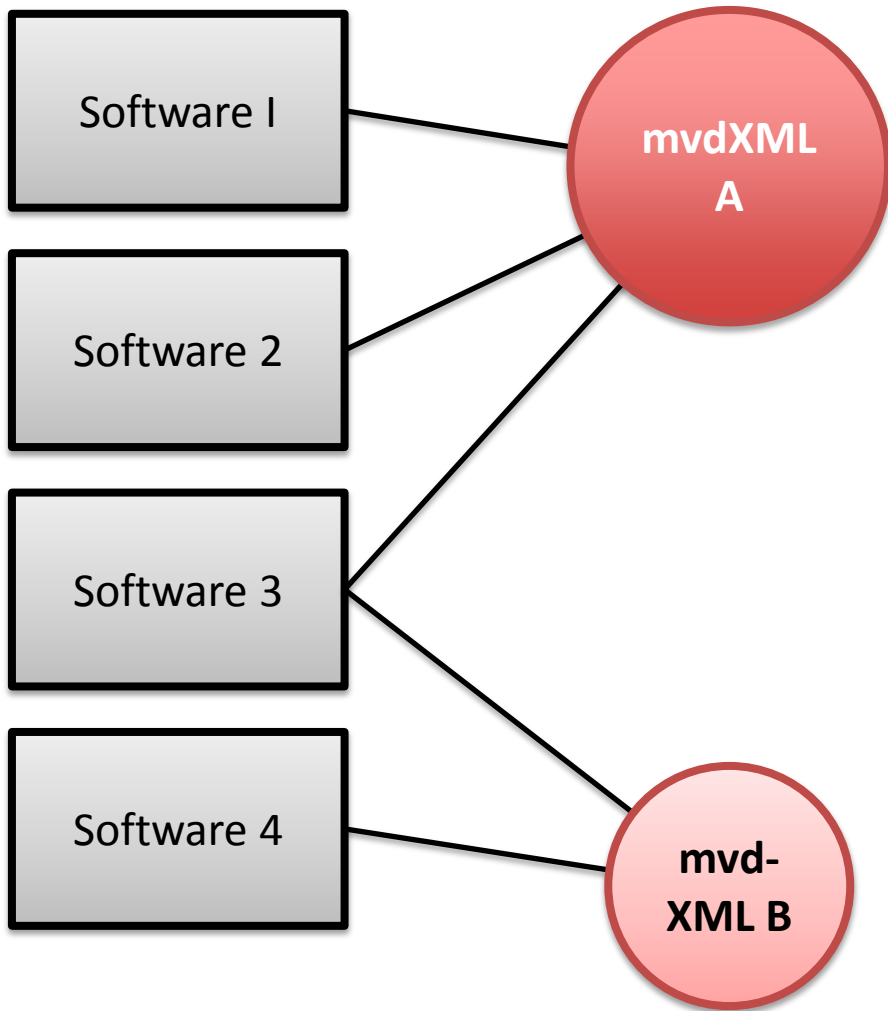
One MVD can support several IDMs



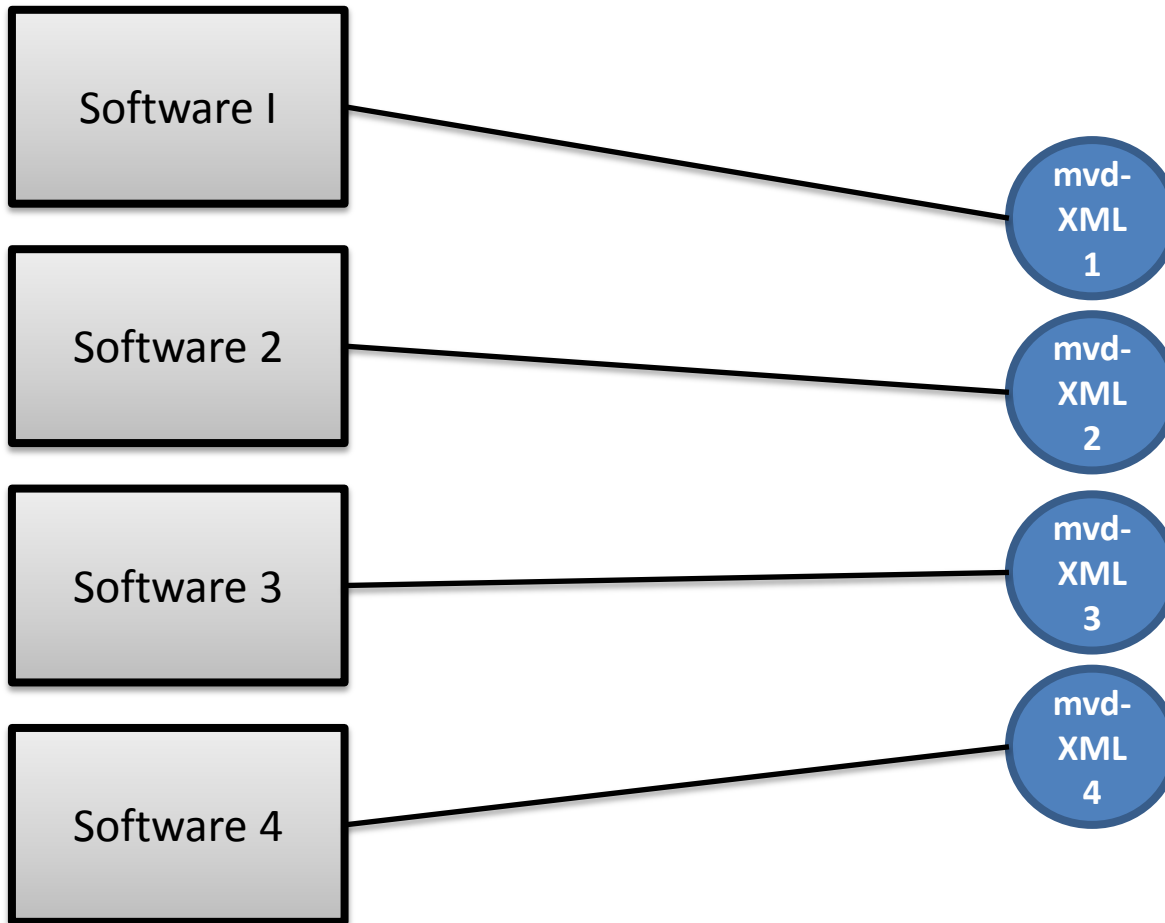
IDM specific mvdXML where values of properties can be constrained – e.g. using a specific classification system



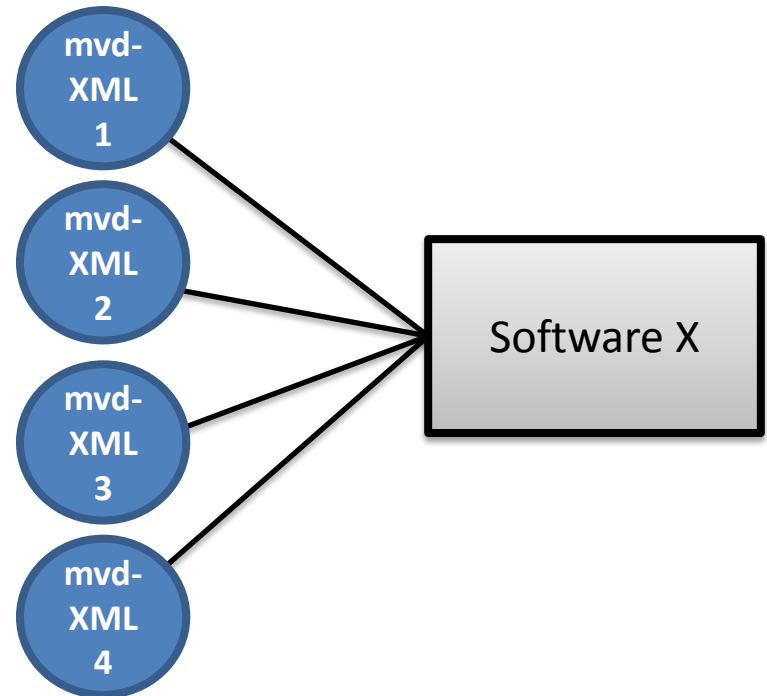
Software certification



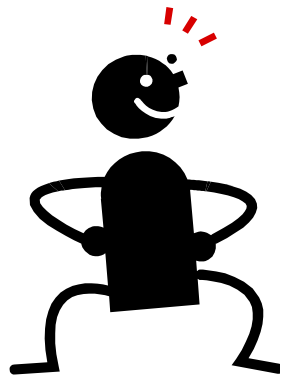
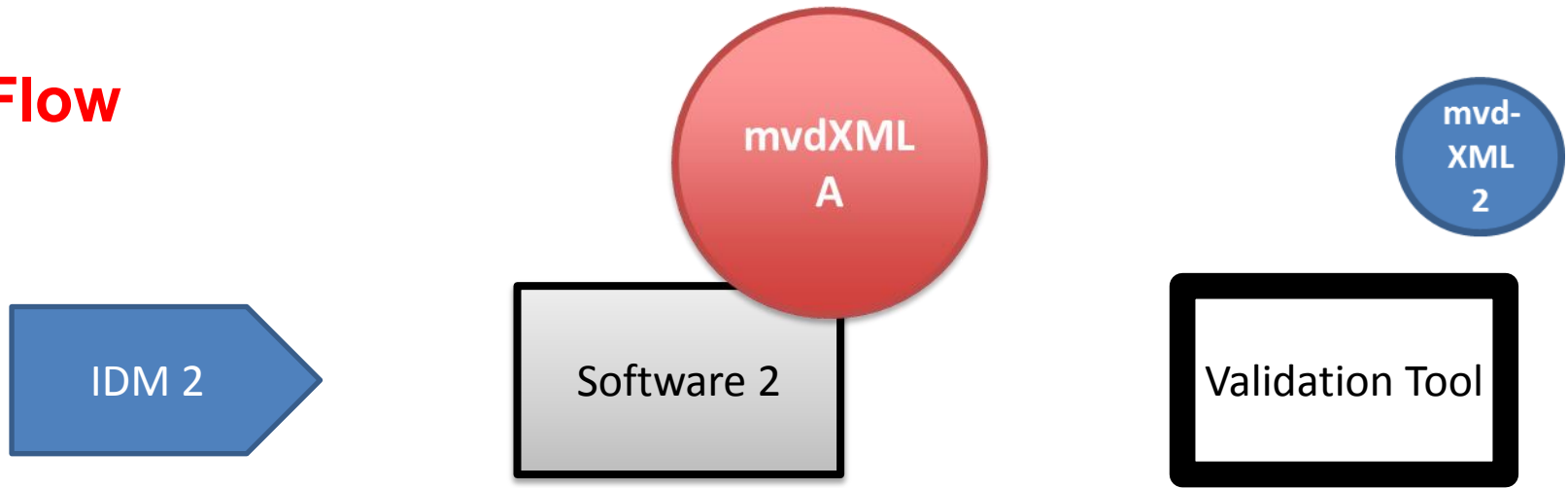
Software could/should support filtering according to an IDM



Validation based on IDM specific mvdXML files



Flow



Requirement



Pick the right tool
to the job



Validate data

Konklusion

- **Indflydelsesrig økonomisk svag non-profit organisation**
- **Forudsætning for succes er opbakning og medansvar hos aktørerne i branchen**
- **Stor mulighed for påvirkning for aktive deltagere**
- **Se egen vinding og global løsning som en mulighed og nyttig kombination**
- **Alt drejer sig om penge, krav og muligheder**
 - Virksomhederne/politikerne skaber business cases
 - buildingSMART danner rammerne for standardisering
 - buildingSMART kan være en katalysator
- **buildingSMART kan ikke ændrer verden alene, men ved fælles hjælp kan vi få data til at flyde på tværs af parter og produkter i branchen**
 - Stil krav til din leverandør (rådgiver, byggevareproducent, entreprenør og softwareproducent)
 - buildingSMART bliver ikke en fuldbyrdet succes **uden din hjælp**