



SeaDataNet

*PAN-EUROPEAN INFRASTRUCTURE
FOR OCEAN & MARINE DATA
MANAGEMENT*

Connection of PANGAEA / Marum, University of Bremen

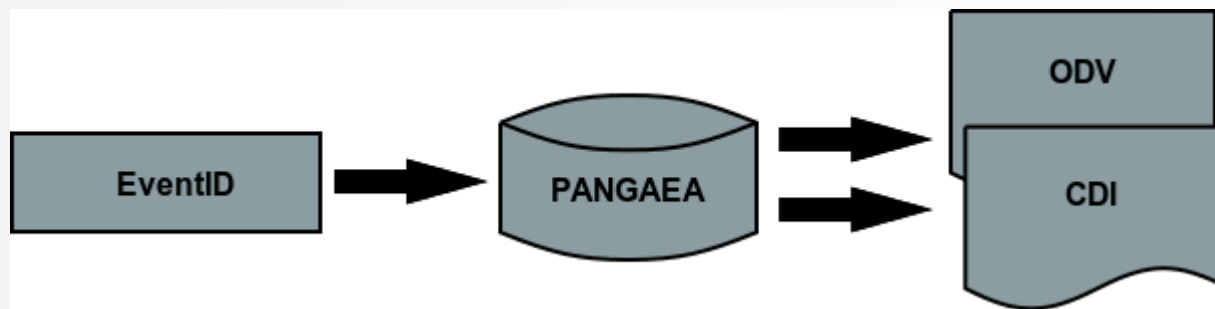
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Data identification

- Data initially served :
 - CTD data from german vessels
- More data are likely to follow (Tara Oceans data as part of MicroB3, international data)
- Preparation :
 - duplicate checks (thanks to Reiner Schlitzer, AWI)
 - mapping between SDN and PANGAEA terms (parameters, units...) using appropriate vocabularies

Tools used

- No SDN tools – creation of own software pieces seemed more feasible
- Every dataset served to SDN has a unique EventID
- Approach : retrieve metadata and data from the PANGAEA system by EventID and create ODV / CDI files as well as coupling table on the fly



Issues resolved

- Sole EDMO code without further information on data provider not sufficient
- Solution : triggering of EDMO web service at the time of CDI generation
- Incorrect revision date : not a problem in PANGAEA metadata, but results in invalid CDI records

Issues resolved

- Embedding the DOI of PANGAEA datasets in ODV and CDI files :

```

1 //<SDN_REFERENCES>doi.pangaea.de/10.1594/PANGAEA.93658
2 //SDN_parameter_mapping
3 //<subject>SDN:LOCAL:Depth</subject><object>SDN:P011::ADEPZZ01</object><units>ULAA</units>
4 //<subject>SDN:LOCAL:Pressure, water</subject><object>SDN:P011::PRESPO2</object><units>SDN:P061::UPDB</units>
5 //<subject>SDN:LOCAL:Salinity</subject><object>SDN:P011::PSALZZXX</object><units>SDN:P061::UUUU</units>
6 //<subject>SDN:LOCAL:Temperature, water</subject><object>SDN:P011::TEMPZZXX</object><units>SDN:P061::UPAA</units>
7 //<subject>SDN:LOCAL:Conductivity</subject><object>SDN:P011::CNDCCZ01</object><units>SDN:P061::UECA</units>
8 //

```

```

455 <distTranOps>
456   <transSize>0</transSize>
457   <onLineSrc>
458     <linkage>http://doi.pangaea.de/10.1594/PANGAEA.59360</linkage>
459     <protocol>HTTP-DOWNLOAD</protocol>
460     <orDesc>PANGAEA data centre url</orDesc>
461     <orFunc>
462       <OnFuncCd value="URL" />
463     </orFunc>
464   </onLineSrc>
465 </distTranOps>
466 </distInfo>
467 </Metadata>

```

Conclusion

- explained procedure of creating ODV and CDI files was the more feasible approach for us
- retrieve metadata and data from PANGAEA system without having to handle files and putting them through Nemo or Mikado manually
- code will be adjusted to accomodate for the ISO19139 CDI extension when this is finalized

Thank you.