



Atelier : SOMLIT & SeaDataCloud

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Brest

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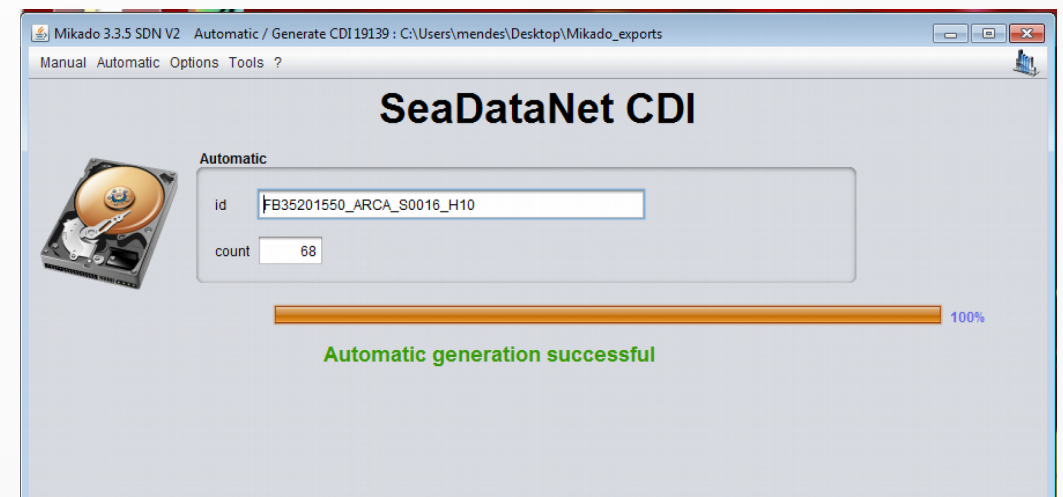


Contexte

- 12 écosystèmes suivis (21 sites de prélèvement)
- Séries 'Surface' et 'Profil de sonde'
- Fréquence : hebdomadaire à mensuelle
- Profondeurs : Surface (+ fond + profondeurs intermédiaires selon les sites) ; tous les 25cm (profils)
- 17 + 26 paramètres (série 'Surface') ; 4 paramètres (profils)
- 20 ans de données
- BDD MySQL et scripts php maison
- → démonstrateur : **choix CTD sur Arcachon en 2015** (3 sites)


Étapes


- ✓ Comprendre les notions, les catalogues, les outils et le workflow, cdi
- ✓ Mettre à jour les fiches (organismes, navires)
- ✓ Choisir les listes de vocabulaire pour les paramètres
- ✓ Analyser les champs nécessaires
- ✓ Tester Mikado / ~~Nemo~~ → Modus2, coupling table, coupling file
- ✓ Modifier la BDD
- ✓ Générer les CDI
- ✓ Faire valider les CDI
- ✓ Installer et configurer le DLM
- Passer le DLM en prod



Impacts BDD

- Ajout de tables
- - de MD
- - de LOCAL_CDI_ID
- - plateforme
- - instrument
- Alter table serie_ctd, station
- Une vue pour simplifier
- **Nettoyer** les data!!!

Name	Type	Collation	Attributes	Null	Default	Comments
id 	int(11)			No	None	
nom	varchar(25...	utf8_bin		No	None	
alias	varchar(64...	utf8_bin		No	None	Alias, surnom
sdn_var11	varchar(45...	utf8_bin		No	None	
sdn_list	text	utf8_bin		No	None	Liste de paramètres

1	id 	int(11)		No	None	
2	sdn_var01	varchar(25...	utf8mb4_general_ci	Yes	None	cdi partner
3	sdn_var02	varchar(25...	utf8mb4_general_ci	Yes	None	measuring area
4	sdn_var09	varchar(25...	utf8mb4_general_ci	Yes	None	holding center
5	sdn_var14	varchar(25...	utf8mb4_general_ci	No	None	access restrictio
6	sdn_var36	varchar(25...	utf8mb4_general_ci	Yes	None	distributor
7	sdn_var37	varchar(25...	utf8mb4_general_ci	Yes	None	format name
8	sdn_var38	varchar(25...	utf8mb4_general_ci	Yes	None	format version
9	sdn_var39	varchar(25...	utf8mb4_general_ci	Yes	None	distribution-data
10	sdn_var40	varchar(25...	utf8mb4_general_ci	Yes	None	distribution-data
11	sdn_var41	varchar(25...	utf8mb4_general_ci	Yes	None	dsitribution data
12	sdn_var42	varchar(25...	utf8mb4_general_ci	Yes	None	distribution-prot
13	sdn_var43	varchar(25...	utf8mb4_general_ci	Yes	None	distribution-met
14	comment	text	utf8mb4_general_ci	Yes	None	

id	LOCAL_CDI_ID	serie	sdn_var04	sdn_var05	sdn_var06	sdn_var08	sdn_var15	plateforme_id	instrument_id	comment
1	FB35200701...	CTD	FB35200701...	FB35200701...	2015-12-25	Abstract r...	cruiseNAME	1	2	NULL
2	FB35200701...	CTD	FB35200701...	FB35200701...	2015-12-25	Abstract r...	cruiseNAME	1	2	NULL
3	FB35200701...	CTD	FB35200701...	FB35200701...	2015-12-25	Abstract r...	cruiseNAME	1	2	NULL
4	FB35200706...	CTD	FB35200706...	FB35200706...	2015-12-25	Abstract r...	cruiseNAME	1	2	NULL
5	FB35200706...	CTD	FB35200706...	FB35200706...	2015-12-25	Abstract r...	cruiseNAME	1	2	NULL
6	FB35200706...	CTD	FB35200706...	FB35200706...	2015-12-25	Abstract r...	cruiseNAME	1	2	NULL

- Drag to reorder.
 - Click to mark/unmark.
 - Double-click to copy column name.

À finir

Valideur

- Vérifier les fiches de toutes les stations (et navires)
- Se déclarer dans EDIOS ou EDMED ?
- Travail sur l'automatisation
- Obtenir le feu vert de Maris

En suite :

- Reprendre notre documentation locale !!!
- Traiter les series de surface « serie_st »

Considérations

- Difficultés :
 - Domaine vaste, notions proches mais différentes (ex: station)
 - LOCAL_CDI_ID, emprise géo
 - Beaucoup de champs au nom peu clair (sdn_var11)
 - Workflow et interactions Mikado / Nemo / DLM pas évidentes au début

- Le positif :
 - Le support ! (Michèle ou Flavian). Il est important d'accompagner les nouveaux entrants

- Le positif par effet de bord :
 - MD dans la BDD → interopérabilité plus simple avec d'autres catalogues
 - Tous les nouvelles BDD marines de l'OASU tiennent compte du travail sur SDC

Remerciements

- Ont travaillé sur le SOMLIT :
 - Arnaud Caillo
 - Yolanda Del Amo
 - Soumaya Lahbib
 - Fabrice Mendes

- Nous ont éclairé :
 - Michèle Fichaut
 - Flavian Gheorghe

The screenshot shows the Mikado 3.3.5 SDN V2 interface. The main window is titled "Mikado 3.3.5 SDN V2 Automatic / CDI 19139 : C:\Users\mendes\Desktop\CDI_Arca_2015_CTD.xml". The interface is divided into several sections:

- Left Panel (Requests):** A tree view showing a hierarchy of requests. Under "Single subqueries", many items are checked with green checkmarks, including "var04 Dataset name", "var05 Dataset-id", "var06 Revision date (dataset)", "var08 Abstract (dataset)", "var09 Holding Centre (custo)", "var12 Platform", "var15 Cruise name", "var16 Cruise short name", "var17 Cruise start date", "var18 Station name", "var19 Station short name", "var20 Station start date", "var21 Time resolution value", "var22 Time resolution unit", "var28 Start date (dataset)", "var29 End date (dataset)", "var30 Minimum depth of instr", "var31 Maximum depth of instr", "var34 Vertical datum", "var35 Water depth", "var36 Distributor", "var45 Vertical resolution value", "var46 Vertical resolution unit", "var47 Horizontal resolution va", "var48 Horizontal resolution ur", "var80 EDMED Reference", and "var81 CSR Reference".
- Query Editor (query):** A table with columns "var" and "sql". The first row contains "var04" and "concat(value, '_2015')". Below the table, the "FROM" clause is "seadatanet" and the "WHERE" clause is "var like 'var04 %'".
- Test Console:** A text area showing the output of a test. It includes a "check" button and the following text:


```

                :$ = [FB352015ARCA_SM0004_H10]
                var04 = [CTD_SOARC_2015]

                Warning : the catalogue identifier must be present in the where clause
                (variable :$)
            
```

Exemple : ODV

```
//Le code du bateau n'est pas bon en attendant de faire générer un code pour la
//Planula.
//
//<sdn_reference xlink:href="http://seadata.bsh.de/cgi-csr/XML/xmlDownload_V2.pl?edmo=1002&identifieur=2016EYRAC" xlink:role="isObservedBy" xlink:type
//<sdn_reference xlink:href="http://vocab.nerc.ac.uk/collection/C17/current/35C4" xlink:role="isObservedBy" xlink:type="SDN:L23::NVS2CON"/>
//<sdn_reference xlink:href="http://seadatanet.maris2.nl/v_cdi_v3/print_xml.asp?edmo=1002&identifieur=FBPLANULA2016_00006_H90" xlink:role="isDescribed
xlink:type="SDN:L23::CDI" sdn:scope="1002:FBPLANULA2016_00006_H90"/>
```

```
//SDN_parameter_mapping
//<subject>SDN:LOCAL:time_IS08601</subject><object>SDN:P01::DTUT8601</object><units>SDN:P06::TISO</units>
//<subject>SDN:LOCAL:ADEPZZ01</subject><object>SDN:P01::ADEPZZ01</object><units>SDN:P06::ULAA</units>
//<subject>SDN:LOCAL:Température</subject><object>SDN:P01::TEMPPR01</object><units>SDN:P06::UPAA</units>
//<subject>SDN:LOCAL:Salinité</subject><object>SDN:P01::PSLTZZ01</object><units>SDN:P06::UGKG</units>
//<subject>SDN:LOCAL:MES</subject><object>SDN:P01::TSEDBVOL</object><units>SDN:P06::UMGL</units>
//<subject>SDN:LOCAL:Delta C13</subject><object>SDN:P01::D13CMOP1</object><units>SDN:P06::UPPT</units>
```

Cruise	Station	Type	yyyy-mm-ddThh:mm:ss.sss	Longitude [degrees_east]	Latitude [degrees_north]	LOCAL_CDI_ID	EDMO_code	Bot.	
[yyyy-mm-ddThh:mm:ss.sss]	QV:SEADATANET	ADEPZZ01 [m]	QV:SEADATANET	Température [Degrées Celsius]	QV:SEADATANET	Salinité [Grams per k			
MES [Milligrams per litre]	QV:SEADATANET	Delta C13 [Parts per thousand]	QV:SEADATANET						
SOARCEYRAC2016	6	*	2016-01-18T11:25:00.000	-001.166667	+44.666667	FBPLANULA2016_00006_H90	1002	6.0	2016-01-18T11:25:00.0
10.110	2	32.560	2	4.745	2	-21.420	6		

2016-01-29T08:02:00.000	0	1.0	0	11.141	2	30.737	2
2016-02-16T11:12:00.000	0	1.0	0	99.000	1	99.000	1
2016-03-01T09:04:00.000	0	1.0	0	10.255	2	28.777	2
2016-03-15T09:13:00.000	0	1.0	0	10.896	2	30.149	2
2016-03-29T07:40:00.000	0	1.0	0	12.492	2	31.103	2
2016-04-13T09:25:00.000	0	1.0	0	13.598	2	32.287	2
2016-04-29T09:07:00.000	0	1.0	0	13.877	2	31.238	2
2016-05-13T09:18:00.000	0	1.0	0	16.295	2	32.393	2
2016-05-30T11:03:00.000	0	1.0	0	18.643	2	32.024	2
2016-06-10T08:01:00.000	0	1.0	0	19.745	2	32.674	2
2016-06-28T10:41:00.000	0	1.0	0	21.270	2	32.426	2
2016-07-11T08:46:00.000	0	1.0	0	21.323	2	33.377	2
2016-07-27T10:08:00.000	0	1.0	0	21.751	2	33.979	2
2016-08-09T08:56:00.000	0	1.0	0	20.451	2	34.181	2
2016-08-25T09:22:00.000	0	1.0	0	21.588	2	34.479	2
2016-09-23T09:10:00.000	0	1.0	0	20.343	2	34.075	2
2016-10-25T11:49:00.000	0	1.0	0	15.318	2	34.386	2
2016-11-10T12:45:00.000	0	1.0	0	13.447	2	34.193	2
2016-11-22T12:05:00.000	0	1.0	0	13.115	2	34.320	2
2016-12-08T11:08:00.000	0	1.0	0	10.540	2	33.791	2

Exemple : CDI

LOCAL_CDI_ID	EDMO_AUTHOR	AREA_TYPE	DATASET_NAME	DATASET_ID	DATASET_REV_DATE	EDMO_ORIGINATOR	DATASET_ABS	EDMO_CUSTODIAN	P02_CODE	PLATFORM	
FBPLANULA2016_00006_H90_1002	DIST_WEBSITE DIST_METHODE	Point	SOARCEYRAC2016	FBPLANULA2016	2017-07-25	838	Not Specified 548	TEMP 31	MO	SOARCEYRAC2016 6	+44.6666
FBPLANULA2016_00006_H90_1002		Point	SOARCEYRAC2016	FBPLANULA2016	2017-07-25	838	Not Specified 548	TEMP 31	MO	SOARCEYRAC2016 6	+44.6666
FBPLANULA2016_00006_H90_1002		Point	SOARCEYRAC2016	FBPLANULA2016	2017-07-25	838	Not Specified 548	PSAL 31	MO	SOARCEYRAC2016 6	+44.6666
FBPLANULA2016_00006_H90_1002		Point	SOARCEYRAC2016	FBPLANULA2016	2017-07-25	838	Not Specified 548	PSAL 31	MO	SOARCEYRAC2016 6	+44.6666
FBPLANULA2016_00006_H90_1002		Point	SOARCEYRAC2016	FBPLANULA2016	2017-07-25	838	Not Specified 548	TSED 31	MO	SOARCEYRAC2016 6	+44.6666
FBPLANULA2016_00006_H90_1002		Point	SOARCEYRAC2016	FBPLANULA2016	2017-07-25	838	Not Specified 548	TSED 31	MO	SOARCEYRAC2016 6	+44.6666
FBPLANULA2016_00006_H90_1002		Point	SOARCEYRAC2016	FBPLANULA2016	2017-07-25	838	Not Specified 548	WSTB 31	MO	SOARCEYRAC2016 6	+44.6666
FBPLANULA2016_00006_H90_1002		Point	SOARCEYRAC2016	FBPLANULA2016	2017-07-25	838	Not Specified 548	WSTB 31	MO	SOARCEYRAC2016 6	+44.6666