

inspireld implementation in the ERM in the Czech Republic

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Documents

- *EG_PopulatingINSPIREUIDs_v10.pdf* by Natalie Delattre

Populating the INSPIRE Unique Identifier and Lifecycle Information for the EuroGeographics products

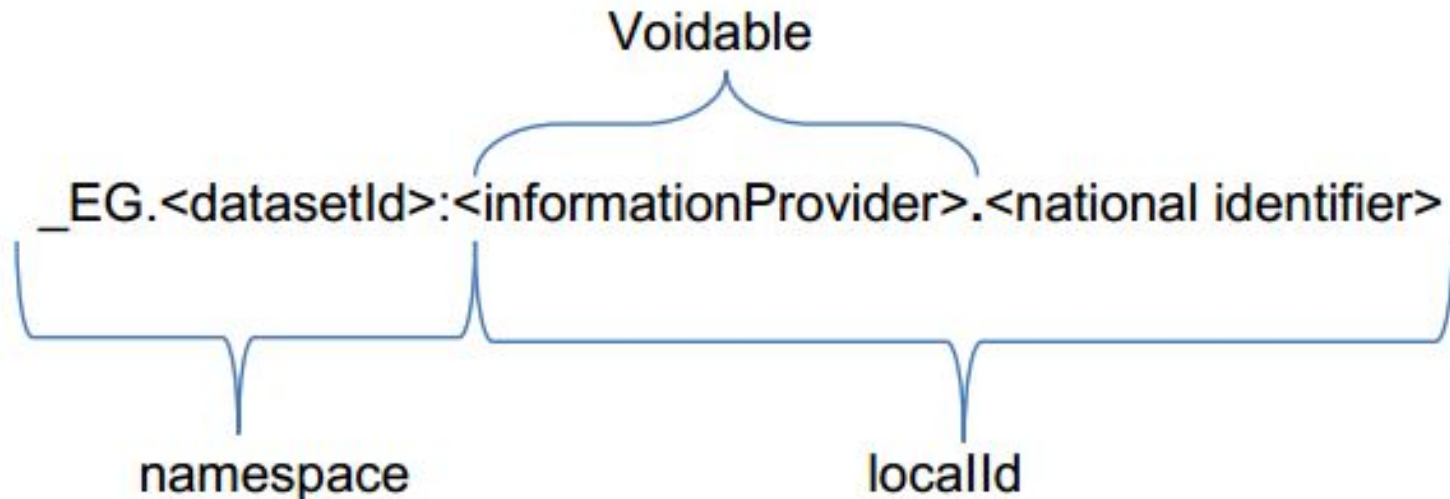
version	date	author	comment
1.0a	13 Aug 12	N. Delattre	Initial draft
1.0b	22Aug 12	N. Delattre	Second draft
1.0c	26 Oct 12	N. Delattre	Third draft after comments by PMT
1.0d	19 Feb 13	N. Delattre	After comments by PMT and webinar
1.0c	14 Mar 13	N. Delattre	After comments by PMT and webinar
1.0	25 Mar13	N. Delattre	final

1. Scope

This document describes the rules for populating the inspireId and the lifecycle information and proposes life-cycle rules to be used for the EuroGeographics products: EuroBoundaryMap, EuroRegionalMap, EuroGlobalMap and State Boundaries of Europe.

So how should inspireId look like?

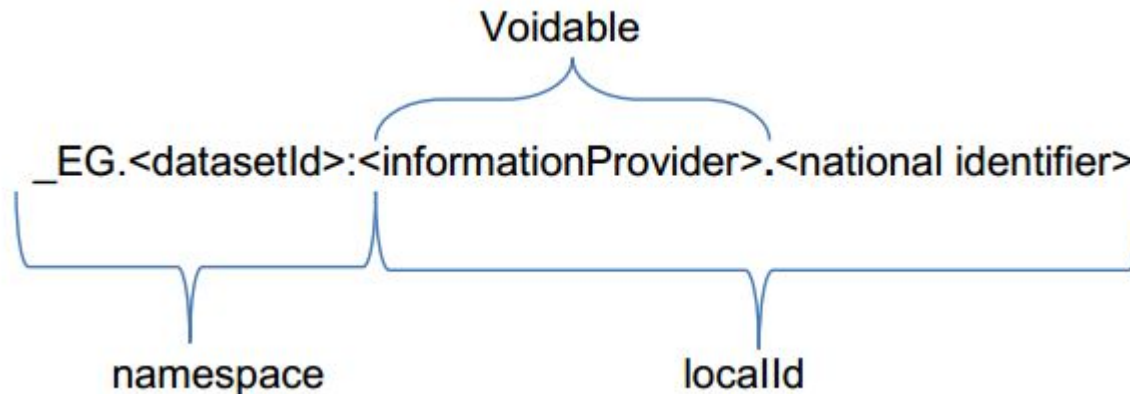
- <namespace>:<localId>
- consists of {"A"..."Z", "a"..."z", "0"..."9", "_", ".", "-"}



<namespace>

- <namespace> = <dataProvider>.<datasetId>
- <dataProvider>: EuroGeographics acronym: _EG
- <datasetId>: current product acronym: ERM

<namespace> = _EG.ERM



<localId>

- <localId> = <informationProvider>.<nationalIdentifier>
- <informationProvider>: namespace register of Data Producers for the EG products: CUZK

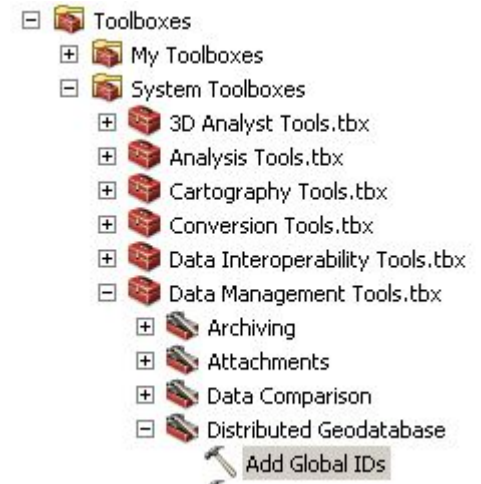
Annex: Namespace register of Data Producers for the EuroGeographics Products (to be completed)

Country	EG Data Producers	Information provider
Europe	EuroGeographics association	EG
Czech Republic	Ceský úřad zeměměřický a katastrální (<i>Czech Office for Surveying, Mapping and Cadastre</i>)	CUZK
Germany	Bundesamt für Kartographie und Geodäsie (<i>Federal Agency for Cartography and Geodesy</i>)	BKG

- <nationalIdentifier>: GlobalId based string

GlobalId 1/2

- our source SDE geodatabase for ERM is Data200
- ArcGIS adds this ID when using distributed geodatabases
- there is a tool which adds this column into a feature class or table
- when the column is added, values are added automatically
- it looks like this:
{7782A495-796C-46B8-ACC7-A7B58BC224B8}



GlobalId 2/2

AirfIdA

OBJECTID	ICC	GLOBALID *	inspireIdERM	CREATIONOPERATOR	CREATIONDATETIME	MODIFICATIONOPERATOR	MODIFICATIONDATETIME
344	CZ	{7782A495-796C-46B8-ACC7-A7B58BC224B8}	EG.ERM:CUZK.7782A495796C46B8ACC7A7B58BC224B8	dataeditor	1.1.2007 0:00:01	dataeditor	1.1.2007 0:00:01
367	CZ	{998D10AC-951A-4549-9292-CC4A4DA4678C}	EG.ERM:CUZK.998D10AC951A45499292CC4A4DA4678C	dataeditor	1.1.2007 0:00:01	dataeditor	1.1.2007 0:00:01
368	CZ	{8A8DFC01-075B-4DA0-873A-E71C38875D53}	EG.ERM:CUZK.8A8DFC01075B4DA0873AE71C38875D53	dataeditor	1.1.2007 0:00:01	dataeditor	1.1.2007 0:00:01
3	CZ	{2E11E034-7175-457C-951E-BEC6ACF66F90}	EG.ERM:CUZK.2E11E0347175457C951EBEC6ACF66F90	dataeditor	1.1.2007 0:00:01	jaral	25.3.2015 10:06:51
366	CZ	{C2C70804-26BF-4ABE-AD2C-802AC3CDD80}	EG.ERM:CUZK.C2C7080426BF4ABEAD2C802AC3CDD80	dataeditor	1.1.2007 0:00:01	dataeditor	1.1.2007 0:00:01
374	CZ	{C5BA4E86-0A0C-4A9F-8584-F80C74B93F3F}	EG.ERM:CUZK.C5BA4E860A0C4A9F8584F80C74B93F3F	dataeditor	1.1.2007 0:00:01	dataeditor	1.1.2007 0:00:01
352	CZ	{3279E9F8-817D-4B60-947D-4C164BC6C19E}	EG.ERM:CUZK.3279E9F8817D4B60947D4C164BC6C19E	dataeditor	1.1.2007 0:00:01	dataeditor	1.1.2007 0:00:01
373	CZ	{94529848-8E11-4FD3-8278-E307948FB465}	EG.ERM:CUZK.945298488E114FD38278E307948FB465	dataeditor	1.1.2007 0:00:01	VANOVAJ	26.5.2016 9:54:52
360	CZ	{9EF41777-FE07-47EF-9B5D-A842C0EE5E89}	EG.ERM:CUZK.9EF41777FE0747EF9B5DA842C0EE5E89	dataeditor	1.1.2007 0:00:01	dataeditor	1.1.2007 0:00:01
4	CZ	{59F8C33D-BFE9-4460-8791-D09AB0D53BA3}	EG.ERM:CUZK.59F8C33DBFE944608791D09AB0D53BA3	dataeditor	1.1.2007 0:00:01	KRIZJ	30.8.2016 10:00:39
370	CZ	{ED813C48-32BF-4C33-A4BA-8ADFE86808F5}	EG.ERM:CUZK.ED813C4832BF4C33A4BA8ADFE86808F5	dataeditor	1.1.2007 0:00:01	dataeditor	1.1.2007 0:00:01
1	CZ	{355D8DEA-FE78-426C-AC78-77A5EA7A0365}	EG.ERM:CUZK.355D8DEAFE78426CAC7877A5EA7A0365	dataeditor	1.1.2007 0:00:01	dataeditor	1.1.2007 0:00:01
362	CZ	{FB226CB8-345C-455F-99EE-AA88400A0E0F}	EG.ERM:CUZK.FB226CB8345C455F99EEAA88400A0E0F	dataeditor	1.1.2007 0:00:01	dataeditor	1.1.2007 0:00:01
2	CZ	{91130713-A10C-4A77-B5C6-ED39419250F8}	EG.ERM:CUZK.91130713A10C4A77B5C6ED39419250F8	dataeditor	1.1.2007 0:00:01	dataeditor	1.1.2007 0:00:01
359	CZ	{97FCA937-9FE1-42F9-A1C8-DC55E43E335D}	EG.ERM:CUZK.97FCA9379FE142F9A1C8DC55E43E335D	dataeditor	1.1.2007 0:00:01	VANOVAJ	14.1.2016 10:45:48

- GlobalId is universally unique identifier-UUID

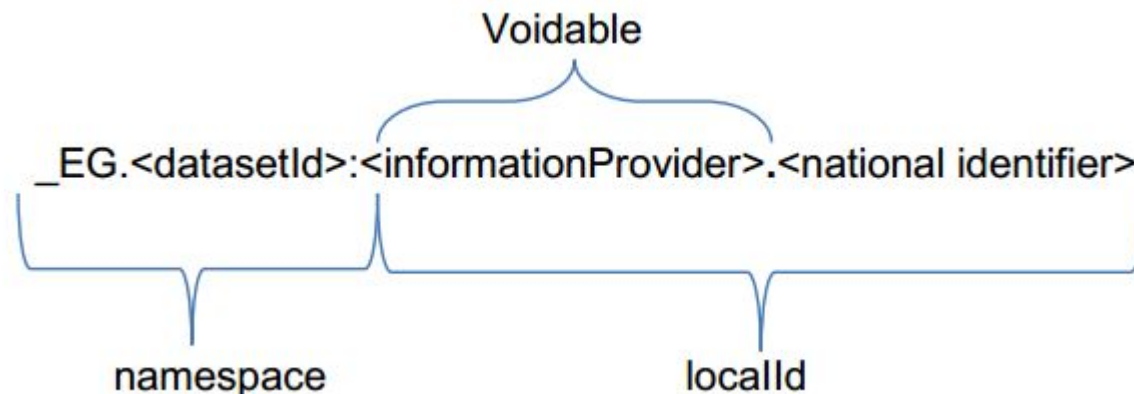
Universally unique identifier-UUID

- Globally unique identifier-GUID
- https://en.wikipedia.org/wiki/Universally_unique_identifier
- 128-bit number used in computer systems
- UUIDs are unique, without depending on a central registration authority
- 32 hexadecimal digits, displayed in five groups separated by hyphens, in the form 8-4-4-4-12
- example: 123e4567-e89b-12d3-a456-426655440000
- total of 36 characters
- Microsoft GUIDs are surrounded with braces: {...}
- probability that a UUID will be duplicated is not zero, it is close enough to zero to be negligible.

<localId>

- <localId> = <informationProvider>.<nationalIdentifier>
- <informationProvider>: namespace register of Data Producers for the EG products: CUZK
- <nationalIdentifier>: GlobalId based string

**<localId> =
CUZK.7782A495796C46B8ACC7
A7B58BC224B8**



inspireId

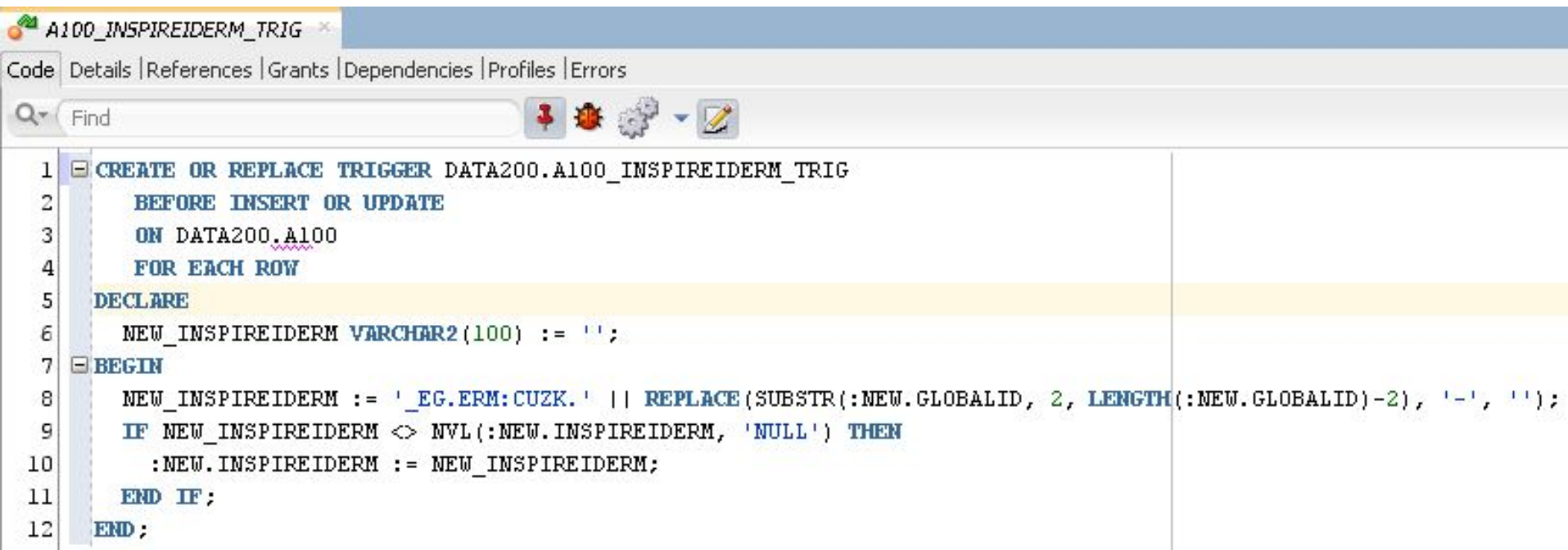
- <namespace>:<localId>

**_EG.ERM:CUZK.7782A495796C4
6B8ACC7A7B58BC224B8**

AirfIdA				
	OBJECTID	ICC	GLOBALID *	inspireIdERM
▶	344	CZ	{7782A495-796C-46B8-ACC7-A7B58BC224B8}	EG.ERM:CUZK.7782A495796C46B8ACC7A7B58BC224B8
	367	CZ	{998D10AC-951A-4549-9292-CC4A4DA4678C}	EG.ERM:CUZK.998D10AC951A45499292CC4A4DA4678C
	368	CZ	{8A8DFC01-075B-4DA0-873A-E71C38875D53}	EG.ERM:CUZK.8A8DFC01075B4DA0873AE71C38875D53
	3	CZ	{2E11E034-7175-457C-951E-BEC6ACF66F90}	EG.ERM:CUZK.2E11E0347175457C951EBEC6ACF66F90

inspireIdERM

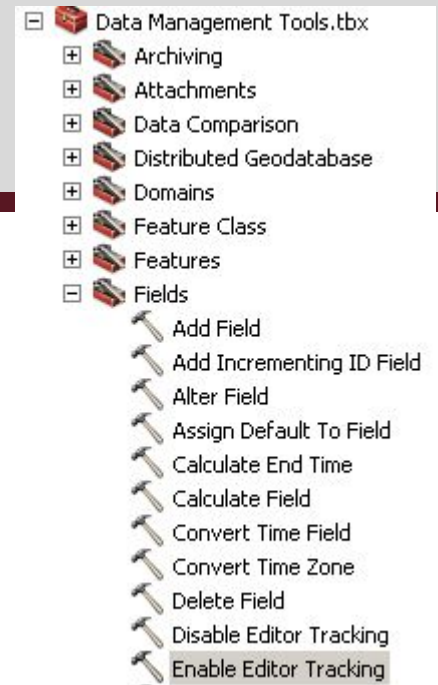
- filled (calculated) with the help of database triggers



```
1 CREATE OR REPLACE TRIGGER DATA200.A100_INSPiREIDERM_TRIG
2   BEFORE INSERT OR UPDATE
3   ON DATA200.A100
4   FOR EACH ROW
5   DECLARE
6     NEW_INSPiREIDERM VARCHAR2(100) := '';
7 BEGIN
8   NEW_INSPiREIDERM := '_EG.ERM:CUZK.' || REPLACE(SUBSTR(:NEW.GLOBALID, 2, LENGTH(:NEW.GLOBALID)-2), '-', '');
9   IF NEW_INSPiREIDERM <> NVL(:NEW.INSPIREIDERM, 'NULL') THEN
10     :NEW.INSPIREIDERM := NEW_INSPiREIDERM;
11   END IF;
12 END;
```

Life-cycle information

- beginLifespanVersion
- can be done using Editor Tracking feature of the ArcGIS



AirfldA						
	OBJECTID *	ICC	CREATIONOPERATOR	CREATIONDATETIME	MODIFICATIONOPERATOR	MODIFICATIONDATETIME
	344	CZ	dataeditor	1.1.2007 0:00:01	dataeditor	1.1.2007 0:00:01
	367	CZ	dataeditor	1.1.2007 0:00:01	dataeditor	1.1.2007 0:00:01
	368	CZ	dataeditor	1.1.2007 0:00:01	dataeditor	1.1.2007 0:00:01
	3	CZ	dataeditor	1.1.2007 0:00:01	jaral	25.3.2015 10:06:51
	366	CZ	dataeditor	1.1.2007 0:00:01	dataeditor	1.1.2007 0:00:01
	374	CZ	dataeditor	1.1.2007 0:00:01	dataeditor	1.1.2007 0:00:01
	352	CZ	dataeditor	1.1.2007 0:00:01	dataeditor	1.1.2007 0:00:01
	373	CZ	dataeditor	1.1.2007 0:00:01	VANOVAJ	26.5.2016 9:54:52
	360	CZ	dataeditor	1.1.2007 0:00:01	dataeditor	1.1.2007 0:00:01
	4	CZ	dataeditor	1.1.2007 0:00:01	KRIZJ	30.8.2016 10:00:39

Final notes

- if you implement GlobalID in your geodatabases, you have to be careful not to lose them (delete data and re-create/ load them again..)
- if you implement Editor Tracking in your geodatabase, you have to be careful not to lose them (calculations of some auxiliary columns..)

Thank you for your attention!

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