Establishing the UN/LOCODE Official Child Code (OCC) system

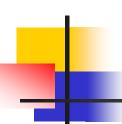
UN/LOCODE Task Force Meeting, Sept. 28, 2023

Wenfeng Sun, CNIS sunwf@cnis.ac.cn



Outline

- 1.Background
- 2.Requirements/Limitations
- 3.The solution
- 4.What next?



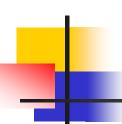
- Background 1: R.16 & existing codes
 - Recommendation 16 (Rev 4) specifies that a UN/LOCODE shall be assigned to a city or an area.
 - Many legacy codes identify sub-locations.
 - Nearly all big cities have sub-locations.
 - Non-conformance to R.16.
 - These legacy codes are valuable and should not be deleted.



- Background 2: About Child code systems
 - The current 3 child code systems covers ONLY ports or container terminals
 - Now only SMDG, IMO, or BIC code
 - No child code solutions for airports, Mail center, oil pipeline, Border crossing, SEZ, etc.
 - No child code solutions for train stations or road transport, if they are not container related



- Background 3: DMR applications
 - When a submitter requests a code for a port within a city which already has a UN/LOCODE, the current maintenance policy will recommend the submitter to apply for child code.
 - However, he/she may request UNECE assigned codes ONLY
 - DMR applications for sub-locations like airports, pipeline terminals, border-crossing, etc., have to be refused anyway.
 - This may not fit the initial purpose of UN/LOCODE when it was first established.
 - This may reduce the user group of UN/LOCODE



Summary:

- An UN/LOCODE official child code should be established
 - To accommodate the existing legacy code for sub-locations in the code list
 - To provide the option for submitters requesting UNECE sponsored code
 - To provide the option for child codes that are of any of the R.16 functions.



2. Requirements/Limitations

- The solution needs to be simple and not affects the current practice and application much, given:
 - R.16 can not be revised in the near future.
 - The legacy UN/LOCODE code list can not be changed significantly, because they are already used widely in the world.
 - There should not be a lot of burden added to existing national focal points.
 - What's the easiest solution?

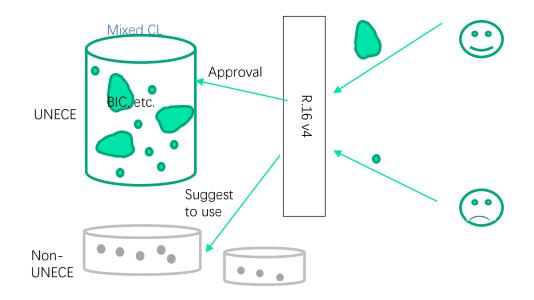
- The solution is "hidden" in the current code list
 - The names of many of the code for locations within a city are using "/", "," "-" to show that they are sub-locations
- Also in R.16 rev.3
 - In 3.2.9, "/" means a sublocation
 - In 3.2.8, "-" means a subordinate entity
 - airport, outlying ports, freight terminal, etc.
 - In 3.2.7, "," means the indication of a significate upper location
- This de facto system of "Child Code" can be given a more explicit status.

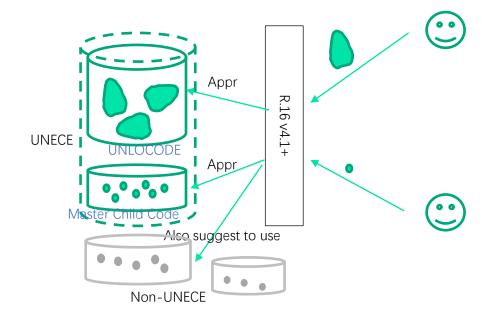


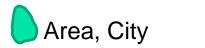
- Establishing the UN/LOCODE Official Child Code (OCC) system
 - Standardize the "name" column, with respect to the use of separator "/", "," "-".
 - Using
 - the existing "de-facto" child codes as the initial set.
 - the same attributes
 - the same DMR application procedure
 - the same IT maintenance system
 - The same database
 - The same client interface software



- Establishing the UN/LOCODE Official Child Code (OCC) system
 - On the official policy level:
 - Declaring the fourth child code system
 - Establishing the mechanism to create two views of the code list, based on the separator "/" in the name column
 - the mixed view
 - the separated view.
 - the list of city codes
 - the list of OCC codes which are linked to parent city codes.
 - in the list of OCC codes add an additional column of "parent".
 - Transformable without loss of any information.







Spot location

	Countr v	Location	Name	Subdiv ision
		ASA	Astoria/Queens/New York	NY
_	US	BOY	Brooklyn/New York	NY
		MNH	Manhattan/New York	NY
		NYC	New York	NY
		Z2E	New York Mills	NY
	US	OZO	Ozone Park/Queens/New York	NY
	US	WOS	Woodside/Queens/New York	NY
	US	ZJI	Alpine, Los Angeles	CA
	US	CRC	Commerce/Los Angeles	CA
		LAX	Los Angeles	CA
		TSU	Treasure Island/Los Angeles	CA
		CHI	-	IL
		LPD	3 -	IL
		MWQ		IL
		ATY	Antony/Paris	92
		BLV	Belleville/Paris	75
	FR	ORY	Orly Apt/Paris	94
		PAR	Paris	75
		STD	Saint-Denis/Paris	93
		LYN	Bron Apt/Lyon	69
		GRE	Guillotière/Lyon	69
		LIO	Lyon	69
		ZFO	Sainte-Foy-lès-Lyon	69
		LYS	Saint-Exupéry Apt/Lyon	69
		AHE	Ashtead/London	SRY
	GB	BKG	Barking/London	ESS
	CD.	LON		LND
		LON	London	LND
		LCT	London City Airport	LND
		LCL	London Colney	HRT
	GB	NWL	North Weald Bassett/London	ESS
	GB	RBG	Redbridge/London	HAM

Country	Location	Name	Subdivision
US	NYC	New York	NY
US	LAX	Los Angeles	CA
US	CHI	Chicago	IL
FR	PAR	Paris	75
FR	LIO	Lyon	69
GB	LON	London	LND

UN/LOCODE



Country	Location	Name	Subdivision	n Parent
US	ASA	Astoria/Queens	NY	NYC
US	BOY	Brooklyn	NY	NYC
				NYC
US	MNH	Manhattan	NY	NYC
US	Z2E	New York Mills	NY	NYC
US	OZO	Ozone Park/Queens	NY	NYC
US	WOS	Woodside/Queens	NY	NYC
US	ZJI	Alpine	CA	LAX
US	CRC	Commerce	CA	LAX
US	TSU	Treasure Island	CA	LAX
US	LPD	Lincoln Park	IL	CHI
US	MWQ	Maywood	IL	CHI
FR	ATY	Antony	92	PAR
FR	BLV	Belleville	75	PAR
FR	ORY	Orly Apt	94	PAR
				PAR
FR	STD	Saint-Denis	93	PAR
FR	LYN	Bron Apt	69	LIO
FR	GRE	Guillotière	69	LIO
FR	ZFO	Sainte-Foy-lès-Lyon	69	LIO
FR	LYS	Saint-Exupéry Apt	69	LIO
GB	AHE	Ashtead	SRY	LON
GB	BKG	Barking	ESS	LON
				LON
GB	LCT	London City Airport	LND	LON
GB	LCL	London Colney	HRT	LON
GB	NWL	North Weald Bassett	ESS	LON
GB	RBG	Redbridge	HAM	LON

The official child code list



4. What next?

- A guidance document addressing the following issues:
 - General principles
 - Additional rules for the assignment of child codes:
 - coding scheme, whether alpha-numeric or not
 - Structures, hierarchies,
 - Name column syntax
 - Other
 - Possible minor changes to DMR design
 - Actions needed in the maintenance procedure
 - Data quality improvement suggestions in the long term



Thank you!