



MANAGEMENT OF GSIM STATISTICAL CLASSIFICATIONS WITH DDI 3.2

In This Talk



2

- Brief overview of Statistical Classifications
- Brief overview of current Copenhagen Mapping
 - ▣ DDI 3.2 and GSIM
- Colectica 5.2 demo
 - ▣ Statistical Classification Management
- Classifications in future DDI versions



3 Tell me about Classifications

Background - Neuchâtel

4

- In 1999, Neuchâtel group meets to discuss standardization of Statistics Classifications
- In 2002, The Neuchâtel terminology model 2.0 was released (2.0)
 - ▣ Updated to version 2.1 in 2004



Background - GSIM

5

- The GSIM Classification model was drawn from the terminology in the Neuchâtel model
- In 2012, the first GSIM model including classifications was released. Version 1.0.
- In December 2013, a version 1.1 update to GSIM was released
- The Neuchâtel model is now an annex to the GSIM model, and released with it



Background – Copenhagen Mapping

6

- In December 2013, a workshop was held in Copenhagen
 - ▣ A mapping was created between the newly released DDI 3.2 and GSIM 1.1 standards
 - ▣ Created Controlled Vocabulary for DDI 3.2
- In 2014, a second workshop was held to expand the mapping
- In December 2015, software to manage Classifications using DDI 3.2 and the mapping was made available



7

What are Classifications

Classification Family

8

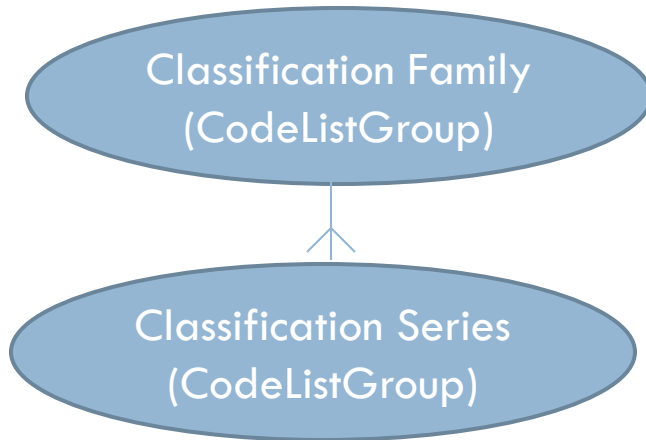
Classification Family
(CodeListGroup)

- A topical grouping mechanism for similar Classification Series
- Pairs a list of Classification Series with a common concept, such as economic activity
- Specialized CodeListGroup in DDI 3.2



Classification Series

9

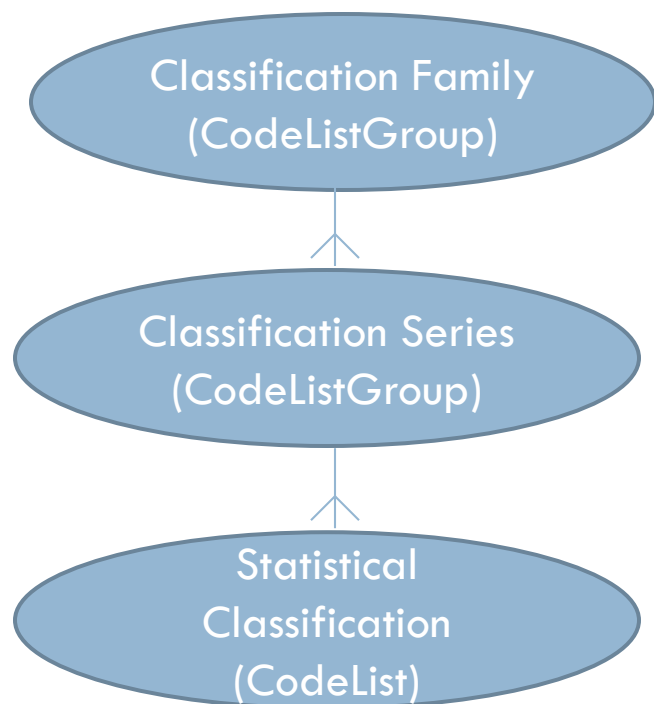


- A group of Classifications that are published in an interval
- ISCO, ISIC, NAICS
- Specialized CodeListGroup in DDI 3.2



Statistical Classification

10



- Composed of Classification Items
 - ▣ Categories and Codes
- Has Levels
- Can be hierarchical
- Is a CodeList in DDI 3.2



Correspondence Table

11

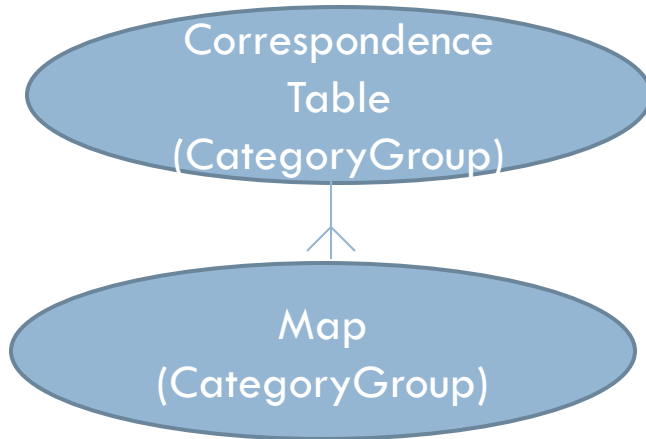
Correspondence
Table
(CategoryGroup)

- Document comparisons between Statistical Classifications
- Lists of Maps
- Specialized CategoryGroup in DDI 3.2



Map

12



- Comparison of a Classification item with another
- Can be 1..1 or 1..many
- Specialized CategoryGroup in DDI 3.2



Correspondence Table and Map

13

Category Group
cm:CorrespondenceTable
Source
Target
Relationship Type
...

Category Group
Cm:CategoryMapping

Defining Category

Category v1

Targets

Category v2

Category Group
Cm:CategoryMapping

Defining Category

Category v1

Targets

Category v2

Category v3



Points of Interest

14

- GSIM Classification model specifies many text fields
 - ▣ Some are computable
 - ▣ Some are enhanced using a relationship
- Added relationships and more specific type information
 - ▣ Example: Predecessor, Successor, Derived From
- Allows automatic computation of many fields
- This approach was followed in DDI4 as well

15

Demonstration!

Demo – Classification Family

16

□ Create a CodeListGroup

The screenshot shows a web application interface for managing 'Classifications'. At the top, a navigation bar includes links for 'Home', 'Checkouts', 'Sample Classifications', and 'Classifications'. The main heading is 'Classifications'. Below it, the 'Members' section is active, featuring a sidebar with icons for editing, linking, deleting, and viewing details. The main form has fields for 'Name', 'Label' (set to 'Classifications'), and 'Description'. Below the form are two panels: 'Code Sets' and 'Code List Groups'. The 'Code List Groups' panel is highlighted with an orange border and contains a single item named 'Activities', which is also highlighted. A mouse cursor is pointing at the 'Activities' item. At the bottom of each panel is a search bar with the placeholder text 'Type to add a new item' and a magnifying glass icon.

Demo – Classification Family

17

- Mark it as a Classification Family

The screenshot shows a web application interface for managing 'Activities'. The top navigation bar includes links for Home, Checkouts, Classifications, and Activities. The main heading is 'Activities'. Below this, there are tabs for 'Members' and 'Description'. The 'Members' tab is active, showing a form with fields for Name, Label, and Description. The 'Label' field is set to 'Activities'. The 'Group Type' field is highlighted with an orange box and contains the value 'cm:ClassificationFamily'. Below the form, there are two sections: 'Code Sets' and 'Code List Groups', each with a search bar and a plus icon for adding new items.

Home Checkouts Classifications Activities

Activities

Members Description

Name en

Label en

Description en

Group Type

Code Sets

Type to add a new item + 🔍

Code List Groups

Type to add a new item + 🔍






Demo – Classification Series



18





- Add a CodeListGroup for Classification Series

Activities

 **Members** Description


 Name en 

 Label en 


 Description 
 en 


Group Type


Code Sets

Type to add a new item + 

Code List Groups

 **ISIC**
International Standard Classification
of All Economic Activities

 **NACE**
Statistical Classification of Economic
Activities in the European
Community

Type to add a new item + 

Demo – Classification Series

19

□ Mark it as a Classification Series

The screenshot shows a web application interface for managing the ISIC - International Standard Classification of All Economic Activities. The breadcrumb navigation at the top indicates the path: Home > Checkouts > Classifications > Activities > ISIC - International Standard Classification of All Economic Activities. The main title of the page is 'ISIC - International Standard Classification of All Economic Activities'. Below the title, there are three tabs: 'Members' (active), 'Classification Series', and 'Description'. On the left side, there is a vertical toolbar with icons for edit, link, upload, information, and download. The form fields are as follows:

- Name:** ISIC
- Label:** International Standard Classification of All Economic Activities
- Description:** (Empty text area)
- Group Type:** cm:ClassificationSeries (This field is highlighted with an orange border)

At the bottom of the form, there are two panels for managing data:






- Code Sets:** A panel with a search bar containing the text 'Type to add a new item' and a '+' button.
- Code List Groups:** A panel with a search bar containing the text 'Type to add a new item' and a '+' button.

Demo – Statistical Classifications

20

□ Add CodeLists for Statistical Classifications

ISIC - International Standard Classification of All Economic Activities



Members

Classification Series

Description

Name

ISIC

en

Label

International Standard Classification of All Economic Activities

en

Description

Historical background

ISIC is the hierarchically structured classification of economic activities drawn up by the United Nations and recommended for use throughout the world. This classification is approved by the Statistical Commission of the United Nations. The first version of ISIC dates back to 1948, and revised versions were published in 1958 (Revision 1), 1968 (Revision 2), 1989 (Revision 3), 2004 (Revision 3.1) and 2008 (Revision 4).

ISIC Rev.3 was the first of the central economic classifications prepared using the integrated approach. This requirement added considerable complexity and constraints that had not applied in earlier revisions of ISIC. Moreover, one of the principal aims was to bring the classification structures into line with the changed economic structures, while at the same time bearing in mind that it was a classification which had to be used not only by the industrialized countries, but also by developing countries. The harmonization with other classifications improved the

en

Group Type

cm:ClassificationSeries


Code Sets

ISIC 1


ISIC 2

ISIC 3

ISIC 4

Type to add a new item + 

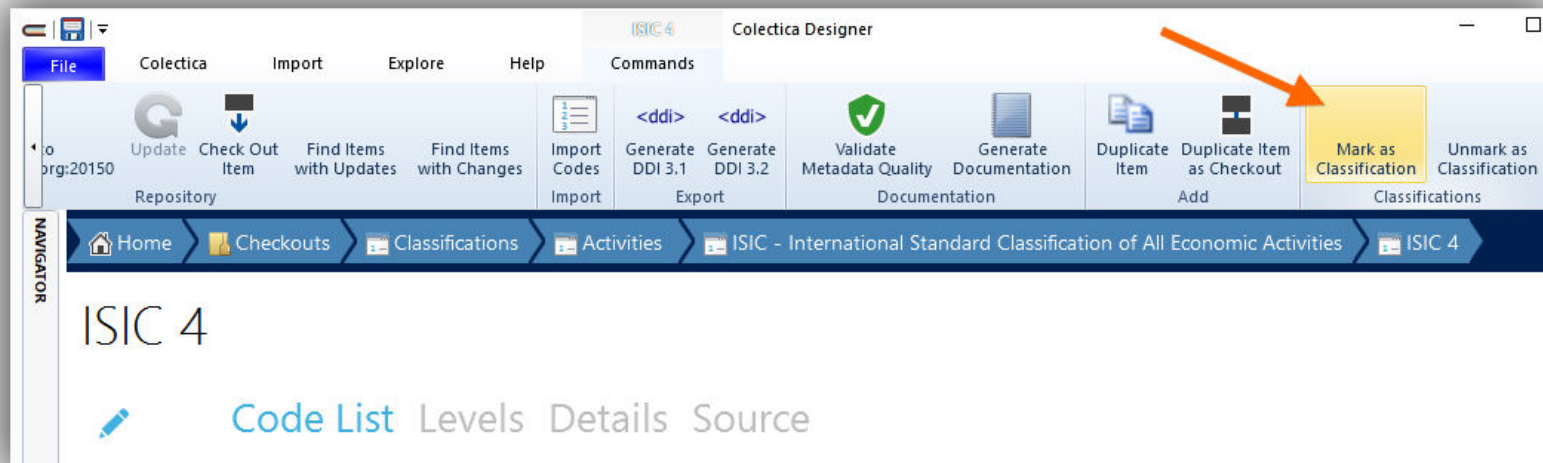
Code List Groups

Type to add a new item + 

Demo – Statistical Classifications

21

□ Mark the CodeList as a Statistical Classifications



Demo – Statistical Classifications

22

□ New attributes are revealed in the editor

The screenshot displays the 'ISCO Codes' editor interface. At the top, a navigation bar includes links for Home, Checkouts, Classifications Demo, Set, Classification Family Demo, ISCO, and ISCO Codes. Below the navigation bar, the title 'ISCO Codes' is followed by tabs for Code List, Levels, Details, Index, and Source. The 'Code List' tab is active, showing a list of classification levels from 1 to 0. Level 1, 'LEGISLATORS, SENIOR OFFICIALS AND MA...', is selected and highlighted in blue. To the right of the list, a detailed editor for the selected level is visible. It includes fields for 'Excludes', 'Index Entry Text', and 'Case Laws', each with a text area and a language dropdown set to 'en'. Below these fields are 'Valid From' and 'Valid To' date pickers, both set to 'Select a date' with a calendar icon. There are also checkboxes for 'Is Valid' and 'Is Generated'. At the bottom of the editor, a 'DETAILS' section shows 'Level Number 1'. On the left side of the interface, there are icons for adding, editing, and deleting items, as well as an information icon. At the bottom left, there is a search bar with the text '1' and 'Add an item'. At the bottom right, there are tabs for HISTORY, MARKDOWN PREVIEW, PROGRESS, and LINKS.

Home Checkouts Classifications Demo Classifications Demo Set Classification Family Demo ISCO ISCO Codes

ISCO Codes

Code List Levels Details Index Source

This is a statistical classification.

1	LEGISLATORS, SENIOR OFFICIALS AND MA	→
2	PROFESSIONALS	→
3	TECHNICIANS AND ASSOCIATE PROFESS	→
4	CLERKS	→
5	SERVICE WORKERS AND SHOP AND MARK	→
6	SKILLED AGRICULTURAL AND FISHERY WO	→
7	CRAFT AND RELATED TRADES WORKERS	→
8	PLANT AND MACHINE OPERATORS AND A	→
9	ELEMENTARY OCCUPATIONS	→
0	ARMED FORCES	→

Excludes

Index Entry Text

Case Laws

Valid From DateTime Select a date 14

Valid To DateTime Select a date 14

☐ Is Valid

☐ Is Generated

DETAILS

Level Number 1

1 Add an item


HISTORY MARKDOWN PREVIEW PROGRESS LINKS


Demo – Correspondence Table


23


□ Create a CategoryGroup


Classification Mappings

 **Members**




 Name

 Label


 Description






Categories

Type to add a new item   

Category Groups

 Mapping 1


Type to add a new item   


Demo – Correspondence Table


24


- Mark it as a Correspondence Table


Mapping 1

 **Members** Description





 Name





 Label Mapping 1

 Description Mapping one classification to another.



Group Type

Source Classification  No item selected.   

Target Classification  No item selected.   


Mappings


Demo – Correspondence Table


25


□ Select source Statistical Classification


Mapping 1

 **Members** Description





 Name





 Label Mapping 1

 Description Mapping one classification to another.



Group Type cm:CorrespondenceTable

Source Classification  Gender codes   

Target Classification  No item selected.   

Mappings

1 Male


2 Female


Demo – Correspondence Table


26


- Select target Statistical Classification


Mapping 1





 **Members** Description





 Name

 Label Mapping 1

 Description Mapping one classification to another.

 Group Type cm:CorrespondenceTable

Source Classification  Gender codes   

Target Classification  Type of Person   

Mappings

1 Male

2 Female

Demo – Correspondence Table

27

□ Choose source Classification Item

The screenshot displays a web interface for creating a correspondence table. It features three main sections: Source Classification, Target Classification, and Mappings. The Source Classification section shows 'Gender codes' with search, add, and remove icons. The Target Classification section shows 'Type of Person' with similar icons. The Mappings section contains a list of items: '1 Male' and '2 Female'. The '1 Male' item is highlighted in blue, and an orange arrow points to it. A 'CREATE MAPPING' button is located to the right of the list.

Source Classification	Target Classification
Gender codes	Type of Person

Mappings

- 1 Male
- 2 Female

CREATE MAPPING



Demo – Correspondence Table

28

□ Click Create Mapping

The screenshot displays a software interface for creating a correspondence table. It features two classification sections at the top: 'Source Classification' with 'Gender codes' and 'Target Classification' with 'Type of Person'. Each section includes a search icon, a plus sign, and a minus sign. Below these is a 'Mappings' section with a list containing '1 Male' (highlighted in blue) and '2 Female'. To the right of the list is a large grey button labeled 'CREATE MAPPING'. An orange arrow points from the bottom left towards the 'CREATE MAPPING' button.

Source Classification	Target Classification
Gender codes	Type of Person

Mappings
1 Male
2 Female

CREATE MAPPING



Demo – Correspondence Table

29

- Choose target Classification Item

Source Classification: Gender codes

Target Classification: Type of Person

Mappings:

	Source Category	Target Categories
1 Male	Male	1 Man
2 Female		2 Woman

ADD



Demo – Correspondence Table

30

- The mapping is recorded in the Correspondence

The screenshot displays a software interface for creating a correspondence table. It features two classification sections at the top: 'Source Classification' with 'Gender codes' and 'Target Classification' with 'Type of Person'. Below these are 'Mappings' for '1 Male' and '2 Female'. The '1 Male' mapping is selected, showing 'Source Category' as 'Male' and 'Target Categories' as '1 Man'. An 'ADD' button is next to the target categories. A red box highlights a button with an 'X' and the text 'Man', which is used to remove the selected target category from the list.

Source Classification	Target Classification
Gender codes	Type of Person

Mappings	Source Category	Target Categories
1 Male	Male	1 Man
2 Female		



Takeaway

31

- DDI Lifecycle 3.2 is well suited for implementing GSIM Classifications
 - ▣ Use DDI for the Physical Specification
- Colectica now provides support for managing Statistical Classifications in DDI





32

Thank you

Web colectica.com



Blog blogs.colectica.com



Twitter [@Colectica](https://twitter.com/Colectica)



YouTube youtube.com/colectica