

# CDWA Lite and museumdat



MCN 2007 Chicago – Regine Stein, Zuse-Institute Berlin

1



SM  
B Institut für Museumsforschung

## **museumdat: Who we are**

- Institute for Museum Research / State Museums of Berlin, Germany
- Zuse-Institute Berlin – Research Center for Information Technology, Berlin, Germany
- Special Interest Group Documentation of the German Museums Association



MCN 2007 Chicago – Regine Stein, Zuse-Institute Berlin

2



SM  
B Institut für Museumsforschung

## **museumdat: Short history**

- Starting point:  
Search for a harvesting format for museum object data
- Good news:  
J. Paul Getty and ArtStor were publishing CDWA Lite



## **Good news: CDWA Lite**

- Very good choice of core elements!
- Detailed and understandable definition and description of elements!
- Especially useful:  
descriptive metadata <> administrative metadata  
display elements <> indexing elements

### **➤ Translation into German**



## Use of CDWA Lite in Germany: Challenges

WG Data exchange, German Museum Association:

- Need of a format that covers object data of manifold provenance such as cultural history, natural history, history of technology ...
- Event-oriented approach of CIDOC CRM copes with this need



## museumdat: Rearrangement of CDWA Lite elements

Based on CIDOC-CRM analysis:

- Grouping of descriptive elements into 5 principal categories:  
Classification / Identification / Description / Event / Relation
- Introduction of Event Set, grouping together Actor, Date and Location Information



## **museumdat: Rearrangement of CDWA Lite elements**

<b>museumdat element</b>	<i>corresponds to</i>	<b>CDWA Lite element</b>
II.3. Custody / Repository Location	only repository, no location information	14. Location / Repository
IV.1.1. Indexing Event Set		
IV.1.1.1. Event Type	includes	13.1.1. Date Qualifier and 14.1.1. Location/ Repository Type-Attribute
IV.1.1.2. Indexing Actor Set	generalises all sub-elements	4.1. Indexing Creator Set
IV.1.1.3. Indexing Dates	not repeatable within same Event Set	13.1. Indexing Dates Set
IV.1.1.4. Indexing Location	only location, no repository information	14. Location / Repository

### **1. Splitting the Location/Repository Element into a Repository Element and a Location Element**

<b>museumdat element</b>	<i>corresponds to</i>	<b>CDWA Lite element</b>
II.3. Custody / Repository Location	only repository information	14. Location / Repository
IV.1.1. Indexing Event Set		
IV.1.1.1. Event Type	includes	13.1.1. Date Qualifier and 14.1.1. Location/ Repository Type-Attribute
IV.1.1.2. Indexing Actor Set	generalises all sub-elements	4.1. Indexing Creator Set
IV.1.1.3. Indexing Dates	not repeatable within same Event Set	13.1. Indexing Dates Set
IV.1.1.4. Indexing Location	only location information	14. Location / Repository

## 2. Generalisation of Indexing Creator Element into Indexing Actor Element

museumdat element	<i>corresponds to</i>	CDWA Lite element
II.3. Custody / Repository Location	only repository, no location information	14. Location / Repository
IV.1.1. Indexing Event Set		
IV.1.1.1. Event Type	includes	13.1.1. Date Qualifier and 14.1.1. Location/ Repository Type-Attribute
IV.1.1.2. Indexing Actor Set	generalises all sub-elements	4.1. Indexing Creator Set
IV.1.1.3. Indexing Dates	not repeatable within same Event Set	13.1. Indexing Dates Set
IV.1.1.4. Indexing Location	only location, no repository information	14. Location / Repository

## 3. Combination of Actor, Date and Location into an Event Set, qualified by an Event Type

museumdat element	<i>corresponds to</i>	CDWA Lite element
II.3. Custody / Repository Location	only repository, no location information	14. Location / Repository
IV.1.1. Indexing Event Set		
IV.1.1.1. Event Type	includes	13.1.1. Date Qualifier and 14.1.1. Location/ Repository Type-Attribute
IV.1.1.2. Indexing Actor Set	generalises all sub-elements	4.1. Indexing Creator Set
IV.1.1.3. Indexing Dates	not repeatable within same Event Set	13.1. Indexing Dates Set
IV.1.1.4. Indexing Location	only location, no repository information	14. Location / Repository

**Object Classification Wrapper**

- 1. Object/Work Type
- 16. Classification

**Identification Wrapper**

- 2. Title
- 18. Inscriptions
- changed:** Custody / Repository

**Description Wrapper**

- 3. Display Creator
- 12. Display Creation Date
- new:** Display Creation Location
- 5. Display Measurements
- 7. Display Materials/Techniques
- 9. Display State/Edition
- new:** Display Event
- 17. Description/Descriptive Note

**Event Wrapper**

- new:** Indexing Event
- new:** EventType  
e.g. *creation, use, discovery...*
- changed:** Indexing Actor
- changed:** Indexing Dates
- changed:** Indexing Location
- 6. Indexing Measurements
- 8. Indexing Materials/Technique
- 10. Style
- 11. Culture

**Relation Wrapper**

- 15. Indexing Subject
- 19. Related Works

**Administrative Metadata Wrapper**

- 20. Rights / 21. Record / 22. Resources

**Example 1:  
Cultural history**



Event Type:  
Use

Deutsches Historisches Museum - Mozilla Firefox

item Nr. 97001271

**objectClassification**  
objectWorkType: **Bücherschrank**  
classification: **Möbel**  
classification: **Kunstgewerbe**

**identification**  
*titleSet*  
title: **Bücherschrank aus dem Arbeitszimmer Wilhelm Piecks in Schloß Niederschönhausen**  
*repositorySet* (type: current)  
repositoryName: **Deutsches Historisches Museum**  
workID: **AK 1235** (type: Inventarnummer)

**description**  
displayCreationDate: **um 1950**  
displayMeasurements: **220,5 cm (Höhe), 270 cm (Breite), 71 cm (Tiefe)**  
displayMaterialsTech: **Holz, Messing (Einlagen)**  
displayEvent: **Gebrauch: Wilhelm Pieck, 1950er Jahre, Berlin, Schloß Niederschönhausen**

**event**  
*indexingEventSet*  
eventType: **Gebrauch**  
*indexingActorSet*  
*nameActorSet*  
nameActor: **Pieck, Wilhelm** (termsource: DHM-Personendatei) (termsourceID: PE019212)  
vitalDatesActor: **1876-1960** (birthDate: 1876.01.03) (deathDate: 1960.09.07)  
genderActor: **männlich**  
roleActor: **Nutzer**  
*indexingDates*  
earliestDate: **1950**  
latestDate: **1960**  
*indexingLocationSet*  
*nameLocationSet*  
nameLocation: **Berlin, Schloß Niederschönhausen**

## Example 2: Natural history



Event Type:  
Collection Event

Event Type:  
Type Creation

Zoologisches Forschungsmuseum Alexander Koenig - Mozilla Firefox

objectClassification  
 objectWorkType: **Biological Object** (termsource: CRM) (termsourceID: E20)  
 objectWorkType: **Insect**  
 classification: **Holotype**  
 classification: **Colletes alini**

identification  
 titleSet  
 title: **Colletes alini**

repositorySet  
 repositoryName: **Zoologisches Forschungsmuseum Alexander Koenig**  
 workID: **HYM 2004/84** (type: collection number)

event  
 indexingEventSet  
 eventType: **Collection Event**

indexingActorSet  
 nameActorSet  
 nameActor: **Alin, V.** (type: personalName)  
 roleActor: **Collector**

indexingDates  
 earliestDate: **1952.07**  
 latestDate: **1952.07**

indexingLocationSet  
 nameLocationSet  
 nameLocation: **Charbin, Mandschurei, Heilongjiang, China, Asia**

indexingEventSet  
 eventType: **Type Creation**

indexingActorSet  
 nameActorSet  
 nameActor: **Kuhlmann, M.** (type: personalName)  
 roleActor: **Type Creator**

indexingDates  
 earliestDate: **2000**  
 latestDate: **2000**

---

CDWA Lite and museumdat

---

## museumdat – further differences to CDWA Lite: Required Elements

23 Elements, due to broader focus only 3 are required:

- Object / Work Type
- Title or Object Name
- Record Element with ID and Source

## **museumdat – further differences to CDWA Lite: Attributes**

- Multilingual:  
languageencoding, xml:lang
- Control of data conversion:  
relatedencoding, encodinganalog
- Handling of controlled vocabulary:  
termsource, termsourceID (= CDWA Lite)  
imported



## **museumdat: Current state**

- Official launch of version 1.0 on Oct 10th during the annual conference of SIG Documentation
- Great number of software suppliers will support the format
- Introduced into the discussion on metadata formats for the European Digital Library





## **museumdat: Presently being used by a number of German institutions**

- BAM-Portal: Portal for Libraries, Archives, Museums
- Digicult Schleswig-Holstein: Museum Network
- Bildarchiv Foto Marburg: Image Archive
- GBV: Library Network
- Stadtgeschichtliches Museum Leipzig
- Ethnologisches Museum der SMB-PK
- Deutsches Historisches Museum



## **To summarize:**

- CDWA Lite fulfills most of our requirements
- museumdat is a reconfiguration of CDWA Lite in order
  - to allow for harvesting of various object data, e.g. from cultural history, natural history ...
  - to be compliant with CIDOC CRM / ISO 21147
- We would be very happy to discuss and develop next steps jointly to serve best all our museums!

