



# APEF – DTR cooperation

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# 67/19

# Overview

- Introduction DTR project
- Introduction APEF DTR cooperation
- What has already been achieved?
- What lies ahead?



# Introduction DTR project

The project Digitale Taken Rijk (DTR) is a program launched by the Dutch Ministry of Education, Culture and Science to build a digital infrastructure and service organisation for the Dutch National Archives and 11 Dutch Regional Historical Centers (RHC's), former State Archives in the Dutch provinces, during the period: 2013 – 2016

- WP1 infrastructure
- WP2 service organisation
- WP3 digitisation
- WP4 sustainability





Various projects, for instance for realising a collective:

- Trusted Digital Repository (e-Depot, based on Preservica)
- Collection Management System (MAIS-Flexis)
- Authority file for record creators (Actorenregister)

and ...

... aggregated search through the collections ...



# Introduction APEF – DTR cooperation

For the infrastructure DTR wants to make use of the aggregator function of the Archives Portal Europe.

At first it was the idea to just re-use the code of the Archives Portal Europe and to further develop this "branch" separately, adding extra functionality needed for DTR purposes.

But, after comparing the DTR and APEF development roadmaps and feature request lists, it was decided to further develop the Archives Portal Europe together, concentrating on three tasks which are important for both parties.



# Introduction APEF – DTR cooperation

- Building an API to open up the functionality of the Archives Portal Europe to third parties and to implement the possibility for the content providers to switch this option on or off in the Archives Portal Europe's back-end
- Improving the uploading and processing of EAC-CPF records in the Archives Portal Europe and to improve the way in which this records creators information can be searched and found via the Archives Portal Europe's front-end and via the API
- 3. Enabling the uploading/processing of "additional finding aids (indexes)" in the Archives Portal Europe and make this additional information available via the Archives portal Europe's front-end and the API



# Ad Task 1: why developing an API?

### APEF:

- to be able to easily share data and a search functionality with multiple third parties (CENDARI, EHRI, Europeana Cloud, etc.)
- to foster the use of Open Data

### DTR:

to be able to present (Dutch) Archives Portal Europe data in multiple
 (12) websites with their own look & feel

https://www.youtube.com/watch?v=s7wmiS2mSXY



# Ad Task 2: why improve EAC-CPF handling?

### APEF:

- to be able to go beyond institution based linking of records creators to finding aids → better relations management in the back-end
- to be able to create a central European archives records creators authority file system

### DTR:

 to be able to upload Dutch government records creators data from a central system (Actorenregister) and make them searchable via the Archives Portal Europe API



# Ad Task 3: why get "additional" FA's in?

### APEF:

 to be able to add more and meaningful metadata to descriptive units and make them searchable, which will make archival material more accessible to a wider audience, which can eventually lead to better and Linked Open Data

### DTR:

 to be able to add more and meaningful metadata to descriptive units and make them searchable, which will make archival material more accessible to a wider audience, which can eventually lead to better and Linked Open Data



January

February

March

April

Goals:



August

November

December

# APEF-DTR development roadmap 2016

.lune

July

May

Goals:	January	repruary	warcn	Aprii	way	June	July	August	September	October	November	December
make APE <u>finding aid data</u> available via an API	development, t	esting and product	ion deployment									
make APE <u>records creator data</u> available via the API					exing, testing and deployment				ing and production yment			
make <u>additional finding aids on person</u> <u>names</u> available via the API		develop a visio				dexing, testing and deployment			development, testing and production deployment			
how to deal with other kind of additional finding aids					develop a vision on how to give access to other kind of additional finding aids							
Dependencies:												
finding aids from NA and RHC's available in EAD/METS		migrating finding aid data to MAIS-Flexis and making them available via OAI-PMH endpoint(s)			via OAI-PMH	migration testing						
records creators data from NA and RHC's available in EAC-CPF			eator registration sy railable via OAI-PM									
additonal finding aids on person names from NA and RHC's available in an accepted format		migrating additonal finding aids on person names to M making them available in the accepted format via OAI-F										
Archives Portal Europe able to harvest and process <u>additional finding aids on person</u> <u>names</u> in the accepted format				process addition person names	to harvest and al finding aids on in the accepted mat							



# What has already been achieved?

- Beta version APE API, available at:
   <a href="http://development.archivesportaleurope.net/ApeApi/services/search/ead">http://development.archivesportaleurope.net/ApeApi/services/search/ead</a>
   see it in action over here:
  - the APE API Explorer: <u>http://development.archivesportaleurope.net/ApeApi/#!/search/search</u>
  - integrated in a basic HTML page: <a href="http://www.archivesportaleuropefoundation.eu/ApeApiDemo">http://www.archivesportaleuropefoundation.eu/ApeApiDemo</a>
  - integrated as a module in a website built in the CMS Drupal: <a href="http://www.archivesportaleuropefoundation.eu/ApeApiDemoDrupal">http://www.archivesportaleuropefoundation.eu/ApeApiDemoDrupal</a>
- Beta enabling/disabling APE API Dashboard function



APE API Explorer showing how it technically works

RESPONSE SAMPLE

Stichting Archives Portal Europe Foundation

500

Internal server error

TOREN						
Enter api key or token →						
API REFERENCE						
search						
Return search results based on						
version						
Archives Portal Europe						
List of usable API services						
Contact: Ape Admin						
BASE URL: /ApeApi/services API VERSION: 1.0.0 TERMS OF USE: Link						

TOKEN

# Return search results based on query POST /search/ead **Parameters** body (required) Content type: application/json searchRequest | Search EAD units Count should not be more than 50 Test this endpoint Response Type application/json Response Messages 400 Bad request

```
"totalResults": 0,
"start": 0,
"totalPages": 0,
"eadSearchResults": [
   "id": "string",
   "unitId": "string",
   "unitTitle": "string",
   "unitTitleWithHighlighting": "string",
   "scopeContent": "string",
    "scopeContentWithHighlighting": "string",
    "fondsUnitTitle": "string",
   "fondsUnitId": "string",
    "language": "string",
    "langMaterial": "string",
   "unitDate": "string",
    "repositoryCode": "string"
RESPONSE SCHEMA
BODY SAMPLE
"count": 0,
"start": 0
BODY SCHEMA
```





Stichting Archives Portal Europe Foundation

### Archives Portal Europe API demo

This page demonstrates the use of the first beta version of the Archives Portal Europe's API (Application Programming Interface). It runs on the data of the Archives Portal Europe's Development server, which at the moment only contains data from three Dutch archival institutions: Gelders Archief, Nationaal Archief and Noord-Hollands Archief. To verify the results of the API, please check the results of the same search queries on the Archives Portal Europe's Development server: http://development.archivesportaleurope.net.

Please bear in mind that for the moment - because of performance reasons - the amount of search results of the Archives Portal Europe API are limited to no more than 50. This might have as consequence that filtering the search results on one of the three above mentioned repositories will not lead to any result.

The endpoint for this first beta version of the Archives Portal Europe API is: http://development.archivesportaleurope.net/ApeApi/services/ead. It can also be tested via the Archives Portal Europe API Explorer: http://development.archivesportaleurope.net/ApeApi.

	,			
	Enter search term:			
	Amount of results:	10	÷	
	Start at result no.:	0	÷	
		Search		
Total of search results found:		0		
Total number of search result pages:		0		
Select repository within requested search results:		All	~	

powered by Archives Portal Europe



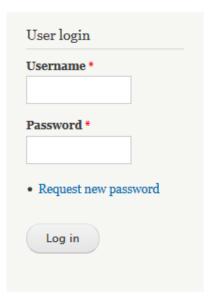






### APE API Demo Drupal site

Home



### About this APE API Demo Drupal site

This Demo Drupal site demonstrates the use of the first version of the Application Programming Interface (API) for access to the Archives Portal Europe (APE) data.

It runs on the data of the APE development server, which at the moment only contains data from three Dutch archival institutions: Gelders Archief, Nationaal Archief and Noord-Hollands Archief.

You can access the API as incorporated via a Drupal module in this Demo Drupal site over here: http://www.archivesportaleuropefoundation.eu/ApeApiDemoDrupal/demo.

To verify the results of the API, please check the results of the same search queries on the APE development server which can be accessed over here: http://development.archivesportaleurope.net.



Enable/Disable use of the API in the APE's Dashboard

Stichting Archives Portal Europe Foundation

ome - TestArchivalInstitution	English V Kaisar Ali   Switch back to Wim van Dongen   Logout   Edit user informa
	Manage open data for API
ontent provider information	Open data flag is disabled.
	This means that at the moment your data will only be published via the interface of the Archives Portal Europe and not be made available as "open data" to be used by anyone vi
View/modify EAG file	In case you want to change that: check mark the option "Enable open data" below and click on the Submit-button. Then all your current data and all data which you will ingest in t
Upload EAG file	Archives Portal Europe in the future will also be made available as "open data" via the Archives Portal Europes API.
Download EAG file	☐ Enable open data
Manage open data for API	Submit
Change institutions name	
Set feedback e-mail address	
ontent information	
Preferences for uploaded files	
Create automatic harvesting function	
Upload content	
Create EAC-CPF	
Content manager	

Manage topic mappings





- implementing API key registration
- expanding the data-set the API gives access to
- testing it thoroughly on the test and acceptance servers
- deploying the first release of the API in production
- deploying iterative new releases after the implementation of the improved EAC-CPF functionality and the additional finding aids functionality



# What lies ahead – EAC-CPF handling

# Currently in Archives Portal Europe it is only possible to:

- upload/harvest EAC-CPF records per institution
- manually connect EAC-CPF records to EAD files of more than one institution (and only when EAC-CPF files are created within the Dashboard)

### Currently it is not possible to:

- recognise double records for a specific CPF entity
- establish relations between double records and their linked EAD files

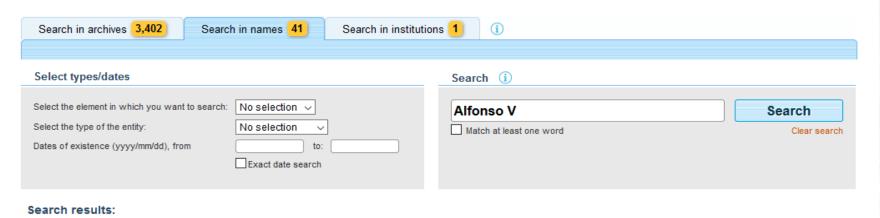


1400-1599 (14)

1600-1799 (8)

1800\_1999 (3)

HOME DIRECTORY FEATURED DOCUMENTS TOPICS SEARCH



Padres: Juan Alfonso Pimentel, I conde de Benavente y de Juana Téllez de Meneses

de España e Ibergamerica Testamento otorgado por Podrigo Alfonso Pimentel



Alfonso V (1396-1458, rey de Aragón)

Date of birth:

1396

Date of death:

1458

Alternative names:

Alfons IV (1396-1458, rei d'Aragó)

Alfonso el Magnánimo (1396-1458)

Alfonso I, Rey de Nápoles

Alfonso IV, Rei d'Aragó

BIOGRAPHY

#### Biography:

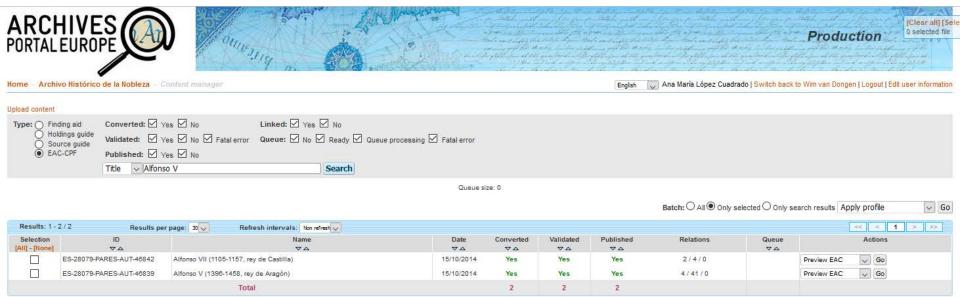
Rey de Aragón. Hijo de Fernando I (Fernando el del Antequera) y de Leonor de Alburquerque. En 1415 contrajo matrimonio con María de Castilla, hija de Enrique III y de Catalina de Láncaster, de la que no tuvo hijos. Heredó la corona de Aragón a la muerte de su padre, el 2 de abril de 1416.

Alfonso V residió poco tiempo en sus estados aragoneses; de los 42 años de su reinado, pasó en Italia 29, siendo sustituido en sus largas ausencias por sus lugartenientes, la reina doña María o



### EAC-CPF record Alfonso V in Archivo de la Corona de Aragón

### EAC-CPF record Alfonso V in Archivo Histórico de la Nobleza



#### social networks and archival context



PROTOTYPE

RESEARCH & DEVELOPMENT

COOPERATIVE PROGRAM

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- ▼ Research & Development

Funding proposals

Open source software

▶ Cooperative Program

# Software created by and used in the SNAC Project

#### EAC-CPF on github and Web Interface

April 2013

- Web EAC-CPF extract from MARC: web application extracts data from uploaded MARC record(s), creating Encoded Archival Context-Corporate Bodies, Persons, and Families (EAC-CPF) XML.
- SNAC EAC-CPF utilities<sup>2</sup>: Utilities from the SNAC project, used to create EAC-CPF XML.

#### Prototype Access System

August 2014

XTF CPF ☑: XTF branch for the SNAC prototype access system

#### April 2012

- XTF CPF : XTF branch for the SNAC prototype access system
- EAC Graph Load ☑: script to process EAC-CPF records into a graph database / graphML file
- SNAC Related Collections Widget 

  : widget for Google Chrome and Mozilla Firefox browsers; users viewing finding aids in NWDA, Library of Congress, and OAC websites will see a pop-up window to see related EAC-CPF records in the SNAC prototype access system

#### **Linked Data**

 SNAC SPARQLer<sup>™</sup>: data as of 2012 (new data set for 2014 is forthcoming)

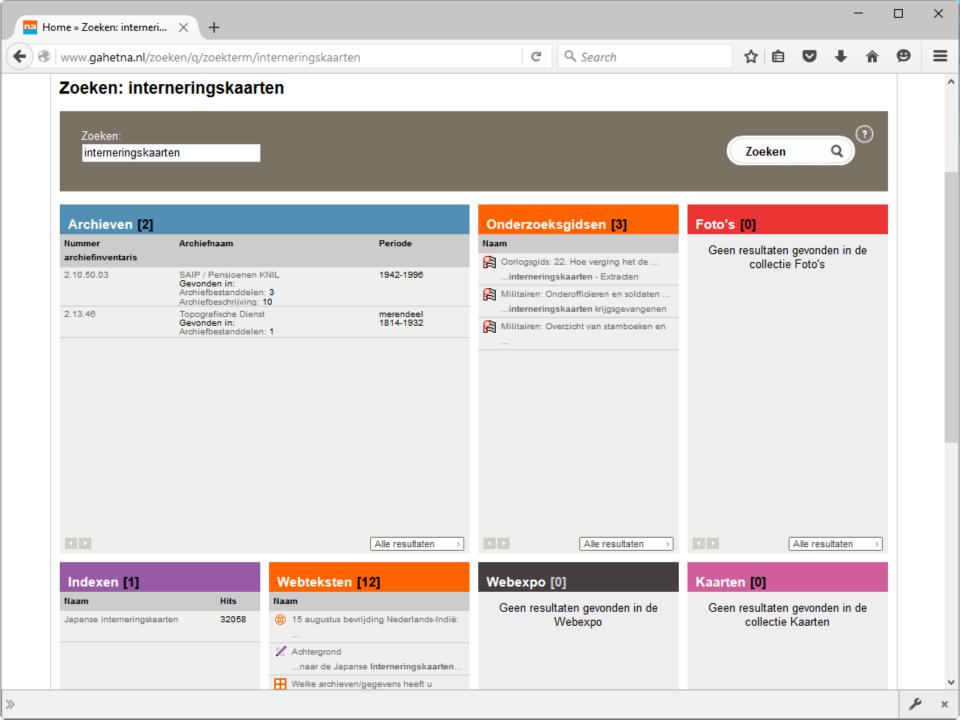


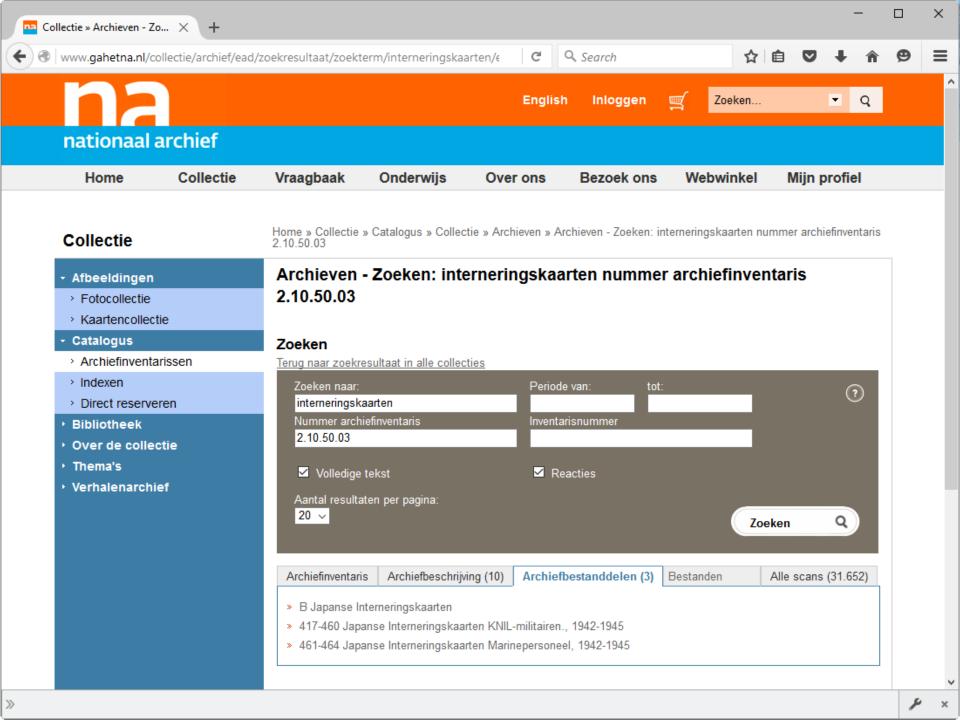
# What are additional finding aids exactly?

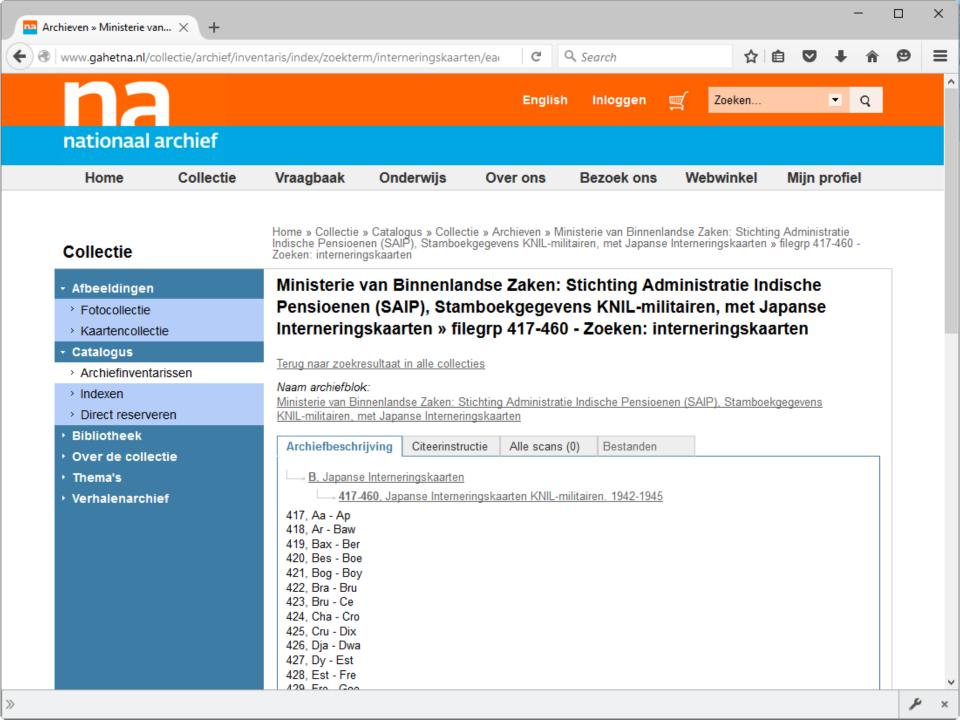
Most of the time the descriptive units of a finding aid describe the archival material very generally, although there is a wealth of information available in them, f.i. on events, persons, places, subjects, etc.

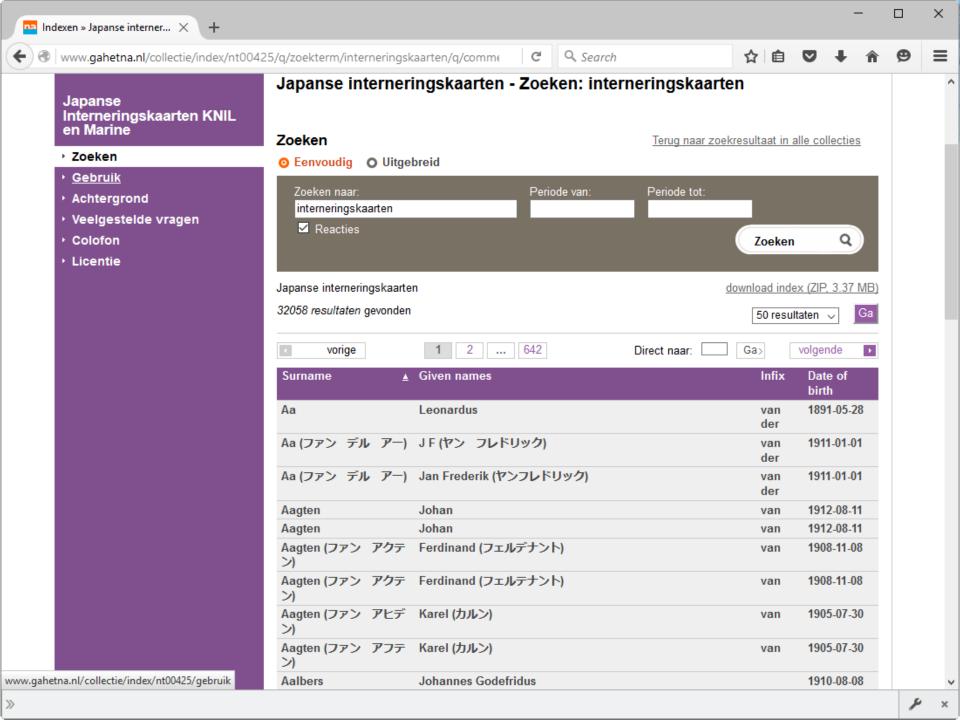
Often this information is available, but in a variety of formats: handwritten lists, indexes, card systems, word processor or spreadsheet documents, databases, etc., either made when the material was created or later on by archivists and/or volunteers.

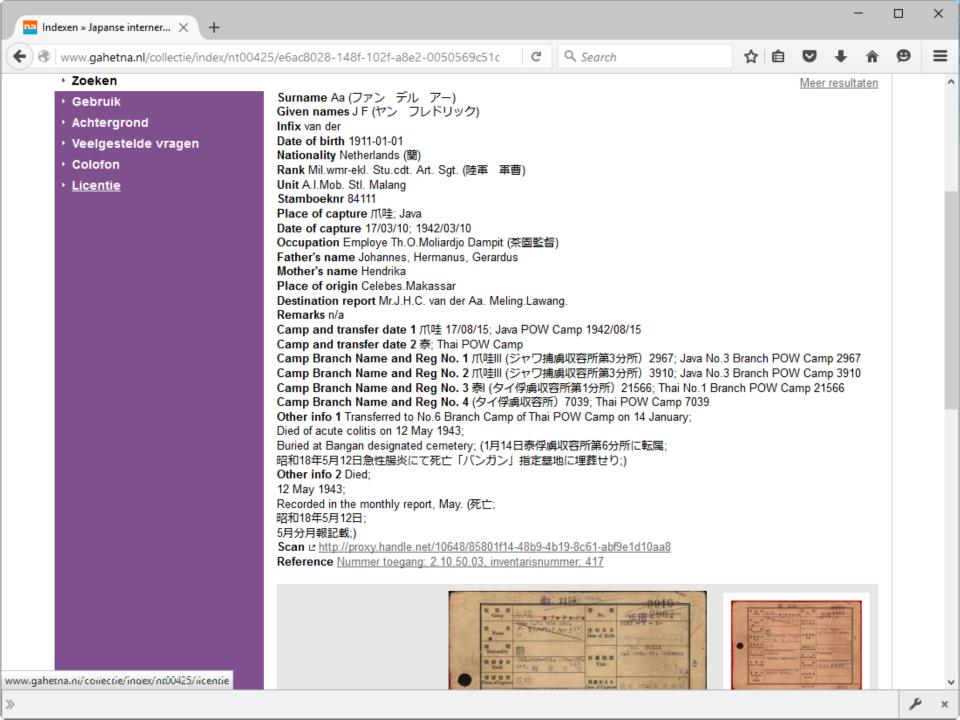
The variety of this kind of information and the variety of the ways in which it is stored, makes it hard to determine a metadata format for it.













# It's worthwile to explore how to use this rich information.

The DTR project is going to pilot with two types of additional finding aids: Notary records (from the 11 RHC's) and VOC administrative records and ships logs (from the Nationaal Archief).

Since these mainly contain data on people, the DTR project thinks it can make use of the metadata format A2A/XML which is created for a Dutch genealogical portal (<a href="http://www.den.nl/standaard/386/">http://www.den.nl/standaard/386/</a>).

However, then the Archives Portal Europe should "learn" how to deal with this new (Dutch) metadata format and this might not be a suitable format for all sorts of other additional finding aids.



# Why not use EAD/XML for additional finding aids?

After all: it is "finding aid"-information and it can be put in the original finding aid, f.i. as an index within the descriptive unit.

But that will result in huge EAD/XML files which will probably generate performance problems in the EAD/XML files maintenance tools.

But we dealt with this before: when we tried to give access to all scans of digitised archival material via a finding aid in EAD/XML  $\rightarrow$  then we decided to link EAD/XML files to METS/XML files per descriptive unit.

We can do the same with additional finding aids: link the descriptive units of the original EAD finding aid to another (additional) EAD finding aid.

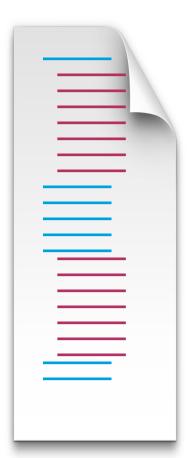


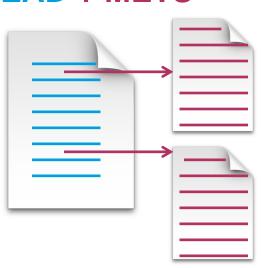




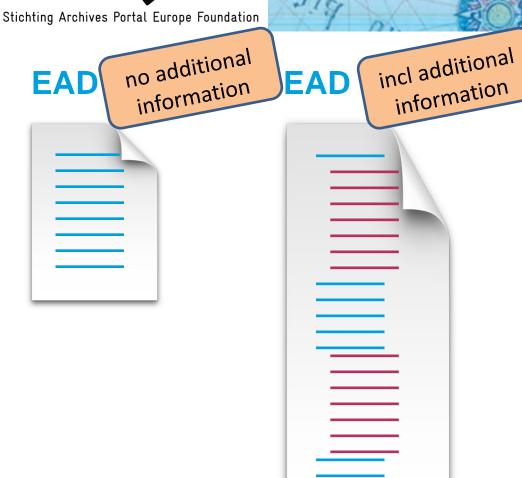
**EAD + METS** 

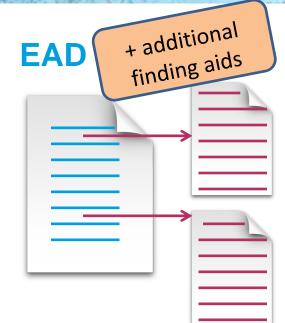
















### We can already do that now in apeEAD ...

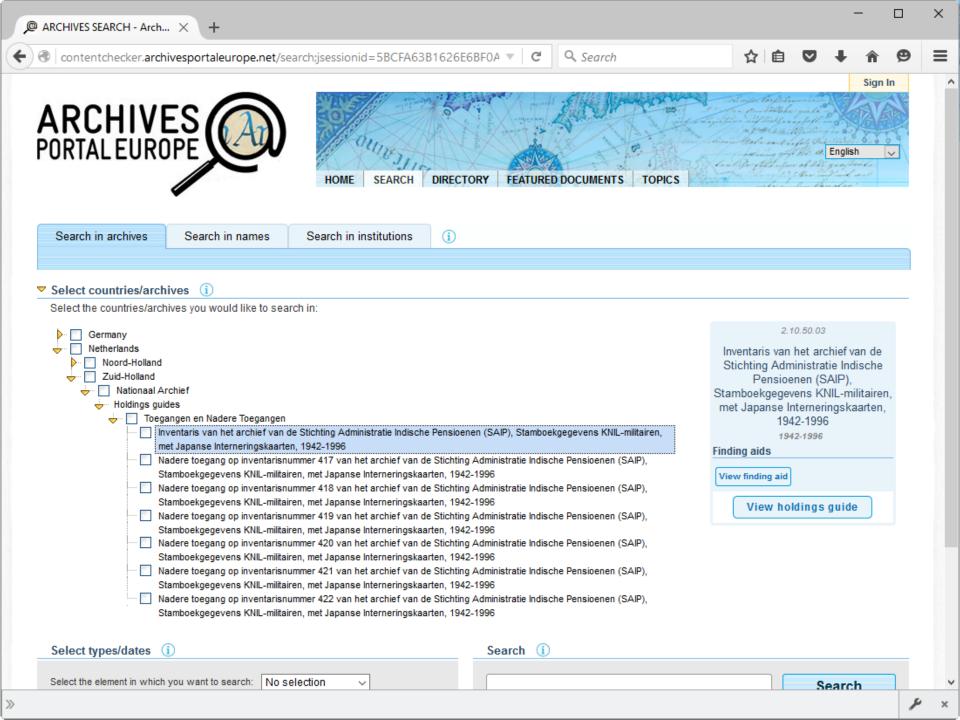
But only very basically in a table in <scopecontent>, because apeEAD doesn't accept specific EAD2002 elements which we could use for this, like: <chronlist>, which allows tagging of events

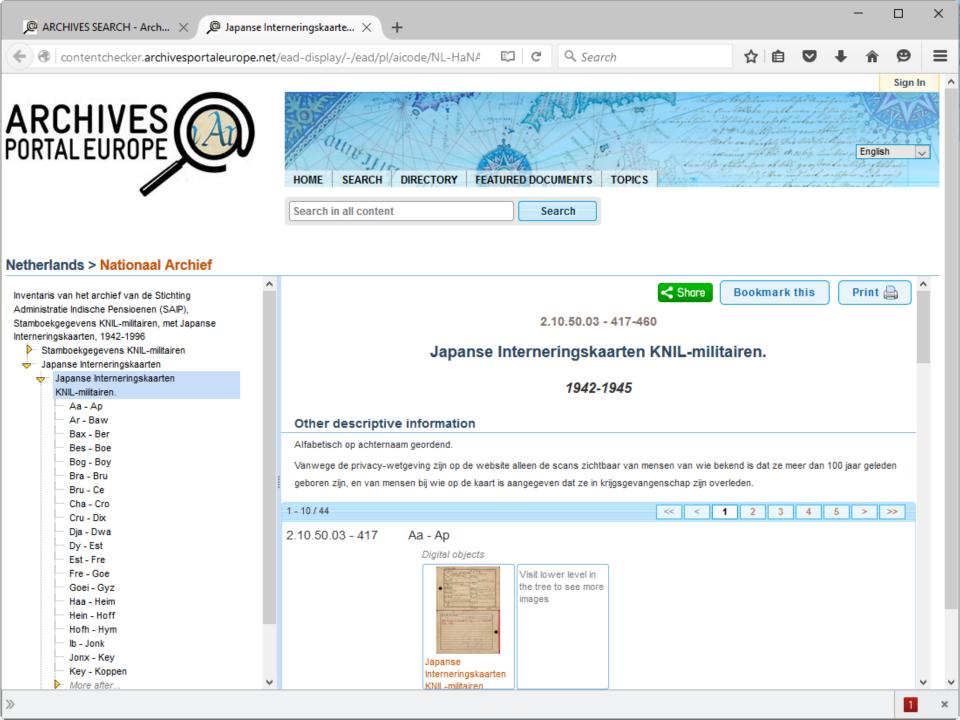




### ... we can already do that now in apeEAD ...

In addition: apeEAD doesn't accept inline tagging of <geogname>,
 <corpname>, <famname>, <persname>, <subject>, etc., nor does the portal take care of this in providing search results yet ...









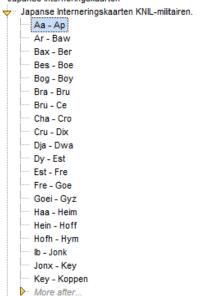
Search in all content

Search

#### Netherlands > Nationaal Archief

Inventaris van het archief van de Stichting Administratie Indische Pensioenen (SAIP), Stamboekgegevens KNIL-militairen, met Japanse Interneringskaarten, 1942-1996

- Stamboekgegevens KNIL-militairen
- Japanse Interneringskaarten



Japanse Interneringskaarten Marinepersoneel

Los aangetroffen kaarten, geordend A-Z

2.10.50.03 - 417

Aa - Ap

View in original presentation

#### Digital objects



KNIL-militairen, 1942-1945



KNIL-militairen, 1942-1945



Japanse Interneringskaarten KNIL-militairen, 1942-1945

Show more images... (565)

#### Existence and location of copies

Dit inventarisnummer is alleen als kopie te raadplegen.

#### Other finding aids

Nadere toegang

View other finding aid 'Zie nadere toegang 2.10.50.03\_417'





Search in all content

#### Netherlands > Nationaal Archief

Nadere toegang op inventarisnummer 417 van het archief van de Stichting Administratie Indische Pensioenen (SAIP), Stamboekgegevens KNIL-militairen, met Japanse Interneringskaarten, 1942-1996

Aagten (ファン アフテン), Karel (カルン) van

Aagten (ファン アヒデン), Karel (カルン) van

Aagten (ファン アクテン), Ferdinand (フェルデナント) van

Aagten (ファン アクテン), Ferdinand (フェルテナント) van

Aa (ファン デル アー), JF (ヤン フレドリック) van der

Aa (ファン デル アー), Jan Frederik (ヤンフレドリック) van der

Aalderink (アールドリンク), Derk (デリック)

Aalders (アオルテイルス), Christiaan Helenus Harmen (キリステイヤン・ヘルヌ ス・ハルマン)

Aalders (アオルテイルス), Christiaan Helenus Harmen (キリスティヤン ヘレヌ ス ハルマン)

Aalst (ファンアールスト), Cornelus Jacobus (コルネリス ヤコブス) van

Aalst (ファン アールスト), lipe Cornelis (アイプ コルネリス) van Aar (アート ファンドゥ), Everardus (エーバアライトウス) van der

Aarts (アールツ), Franciscus Wilhelmus Jacobus (フロニシツスクス ヘイムス

Aarts (アールチヒ), Fransiscus Xanerius (フロレセッケツ サーフスルエツ)

Aarts (n/a), F X (n/a)

Aarts (アーツ), Jacobus Marinus (ヤコブス マルネス)

Aarts (アーツ), Jacobus Marinus (ヤコブス マルネス)

Abas (アバス), Salomon (サルモン) Abas (アバス), Salomon (サルモン)

Abbink (アンベンキ), Bernard (ベルナルト)

More after...

#### Aagten (ファン アクテン), Ferdinand (フェルデナント)

role and held. On Sin Silligan Wole and held On Sin Silligan Wole and

#### Scope and content

van Aagten (ファン アクテン) Surname Given names Ferdinand (フェルデナント)

Search

3235 Date of birth

Nationality Netherlands (蘭)

Mil.sold.2e kl M.G.D. ziekendrager (Milicien soldaat der 2e klas Militair Geneeskundige Dienst Ziekendrager) (陸軍 軍医 二等兵) Rank

M.G.D. Bandoeng (Militair Geneeskundige Dienst Bandoeng)

Unit

Stamboeknr 109708 爪哇; Java Place of capture

Date of capture 17/03/08; 1942/03/08

Leider Bew. Dienst Gouv. Houtvesterij Boschwezen Tjepoe (山林省の監督) Occupation

v.Aagten J.P. Father's name

Simah Mother's name

Place of origin Banjoebiroe (Semarang) (n/a)

Destination report Naaste fam: lid: Lubeck Ch. Karangbaja Tjepoe (n/a) Camp and transfer

爪哇 17/08/15: Java POW Camp 1942/08/15 date 1

Camp and transfer 泰; Thai POW Camp

date 2

Camp branch name

and reg no 1

爪I (ジャワ停虏収容所第1分所) 10717; No.1 Branch Camp of Java POW Camp 10717

Camp branch name and reg no 2

泰I (タイ停虏収容所第1分所)21567; No.1 Branch Camp of Thai POW Camp 215677

On the way to transfer for mainland Japan on (no date);\nTransferred to Malay POW Camp on 6 April 1943;\nDeparted from Singapo

Other info of acute enteritis in Kuye on 23 June 1943. Buried at designated cemetery; (昭和\_年\_月\_日内地へ移管の途次;\n昭和18年4月6日馬来 を出発;\n昭和18年6月23日クイエイに於て急性腸炎により死亡、所定の墓地に埋葬す;)

#### Digital objects



```
<c level="item">
  <did>
     <unitid>1</unitid>
     <unittitle>Aagten (ファン アフテン), Karel (カルン) van</unittitle>
     <dao xlink:title="NL-HaNA_2.10.50.03_417" xlink:href="http://proxy.handle.net/10648/e7b06ef0-22f1-43ae-98af-5c0ecf67cb0d"/>
    <dao xlink:title="thumbnail" xlink:href="http://afbeeldingen.gahetna.nl/naa/thumb/500x500/e7b06ef0-22f1-43ae-98af-5c0ecf67cb0d.jpg"/>
  </did>
  <scopecontent>
     <tgroup cols="2">
          <row>
               <entry>Surname</entry>
               <entry>van Aagten (ファン アフテン)</entry>
             </row>
             <row>
               <entry>Given names</entry>
               <entry>Karel (カルン)</entry>
             </row>
             <row>
               <entry>Date of birth</entry>
               <entry>3235</entry>
             </row>
             <row>
               <entry>Nationality</entry>
               <entry>Netherlands (意)</entry>
             </row>
             <row>
               <entry>Rank</entry>
               <entry>Lds.sld.tkl.inf.G.S. pte. nr.77805 (Landstorm soldaat tweede klas der infanterie, General Staf) (陸軍 歩兵 兵)</entry>
             </row>
             <row>
               <entry>Unit</entry>
               <entry>デョクジャ隊; Landstorm Det. Djokja (Landstorm DetAcehment Djokjakarta)</entry>
             </row>
             <row>
               <entry>Stamboeknr</entry>
               <entry>77805</entry>
```

</row>

an additional finding aid tagged in the current apeEAD version, with all information available in a plain table within <scopecontent>

> we could do this already right now (option 1), but we could also try to expand apeEAD to enable more sophisticated tagging (option 2) ... or ...

```
<c level="item">
  <did>
     <unitid>1</unitid>
     <unittitle>Aagten (ファン アフテン), Karel (カルン) van</unittitle>
     <dao daotype="derived" linktitle="NL-HaNA 2.10.50.03 417" href="http://proxy.handle.net/10648/e7b06ef0-22f1-43ae-98af-5c0ecf67cb0d"/>
     <dao daotype="derived" linktitle="thumbnail" href="http://afbeeldingen.gahetna.nl/naa/thumb/500x500/e7b06ef0-22f1-43ae-98af-5c0ecf67cb0d.jpg"/>
  </did>
  <scopecontent>
     <tgroup cols="2">
          <row>
               <entry>Surname</entry>
               <entry>
                  <persname>
                    <part localtype="infix">van</part>
                    <part localtype="lastname">Aagten</part>
                  </persname>
                  <persname>
                    <part>ファン アフテン</part>
                  </persname>
               </entry>
             </row>
             <row>
               <entry>Given names</entry>
               <entry>
                  <persname>
                    <part localtype="firstname">Karel</part>
                  </persname>
                  <persname>
                    <part>カルン</part>
                  </persname>
               </entry>
             </row>
             <row>
               <entry>Date of birth</entry>
               <entry>3235</entry>
             </row>
             <row>
               contry Mationality clantry
```

... we could go for doing this in EAD3, which already has this sophisticated tagging ... ... and more, much more ... (option 3)

... so the winner is: option 3?

#### because:

- it is more suitable for tagging additional finding aids in more detail
- we already are familiar with the basics of this metadata format (and the same goes for "Europe")
- we have to start on moving to EAD3 at some point anyway





# Thank you for your attention!

Any questions?

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