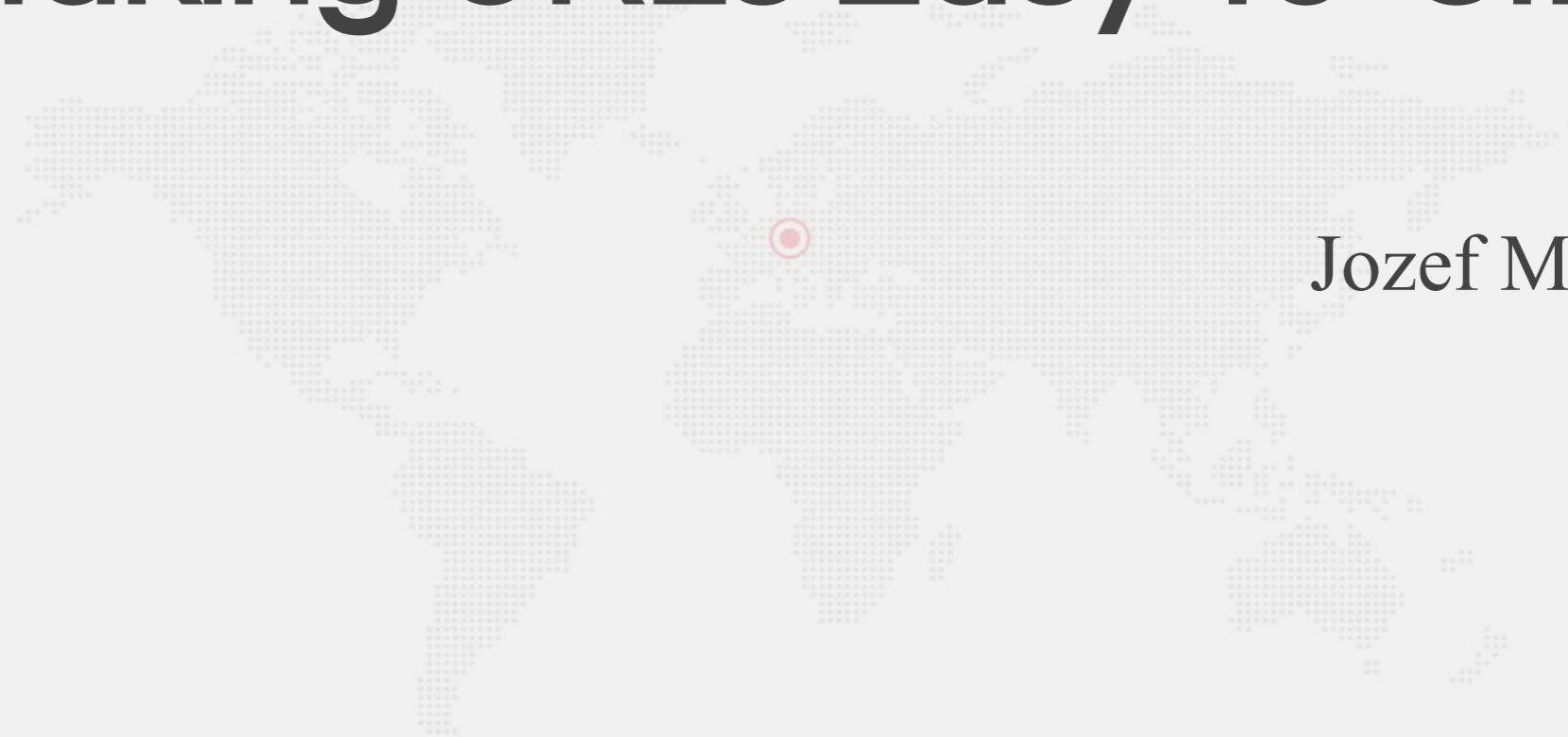


# SHORTREF.ORG

## Making URLs Easy-to-Cite



Jozef Mišutka

- purpose and advantages of using PIDs
- in our context, PIDs are used for citing and referencing of articles and data

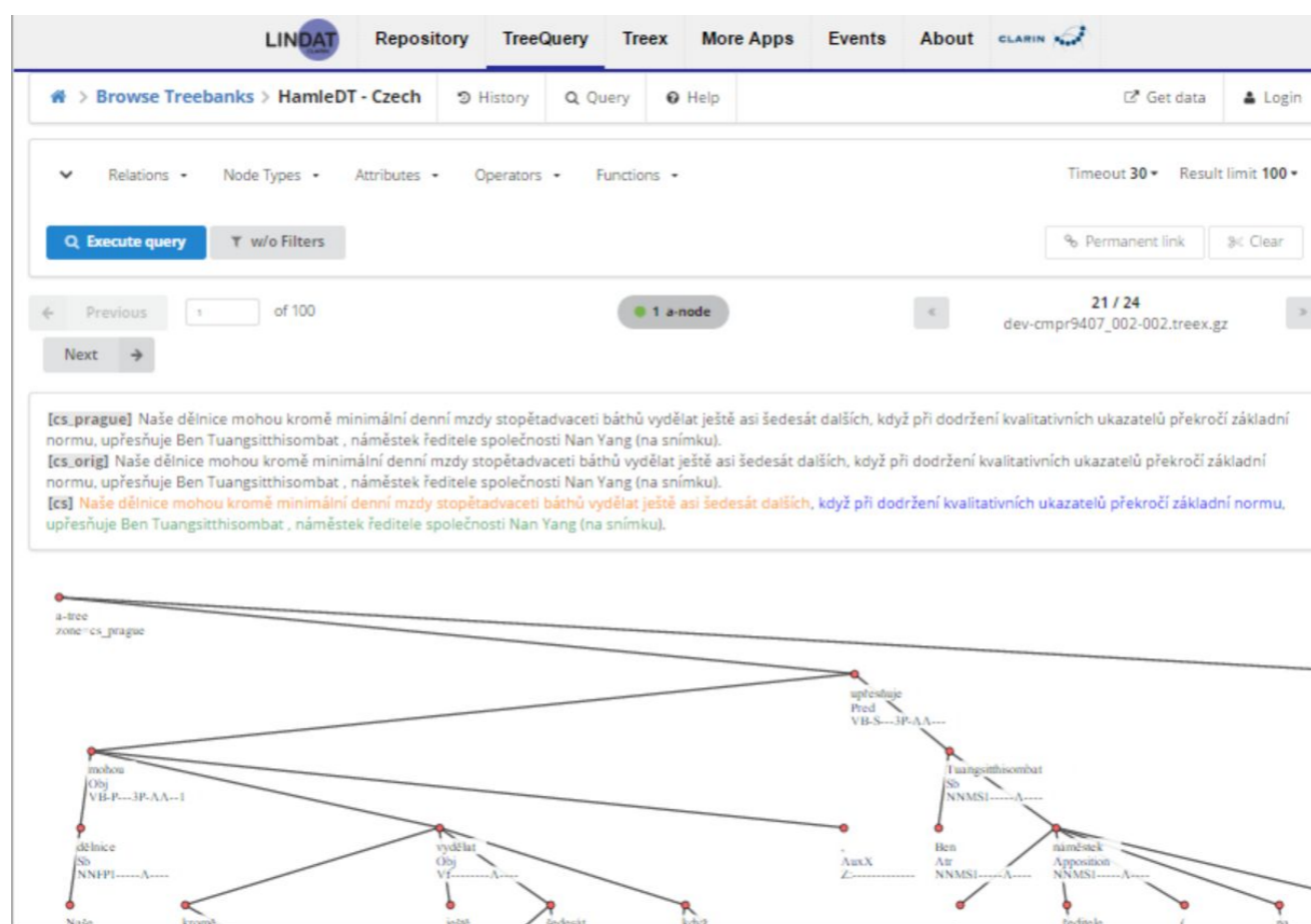


- writing a research paper and want to reference/cite
  - a service used to query data
  - a service used to visualise data
  - long and unreadable URL



# Case study

- is converting visualisation to picture always reliable and sufficient?



The screenshot shows the LINDAT TreeQuery interface. At the top, there are navigation tabs: LINDAT, Repository, TreeQuery (selected), Treex, More Apps, Events, About, and CLARIN. Below the navigation, there is a breadcrumb trail: > Browse Treebanks > HamleDT - Czech. The interface includes a search bar with 'Query' and 'Help' buttons, and a 'Get data' button. There are also 'History' and 'Login' buttons. The main area displays query filters: Relations, Node Types, Attributes, Operators, and Functions. A 'Timeout 30' and 'Result limit 100' are also visible. A blue 'Execute query' button and a 'w/o Filters' button are present. Below the filters, there is a 'Permanent link' and a 'Clear' button. The results section shows '1 a-node' and '21 / 24' items. The first result is a text snippet in Czech, followed by a tree diagram. The tree diagram shows a root node 'a-tree' with a child 'zone=cs\_prague'. The tree structure is complex, with many nodes and edges, representing the hierarchical structure of the text snippet above it.

[https://lindat.mff.cuni.cz/services/pmltq/#!/treebank/hamledt\\_cs/query/IYWgdg9gJgpgBAbTgXSA/result/svg](https://lindat.mff.cuni.cz/services/pmltq/#!/treebank/hamledt_cs/query/IYWgdg9gJgpgBAbTgXSA/result/svg)

- decay
- not enough information
  - version of software, data
- return different content in time
- too long (not only formatting issue)
- proper citing/referencing



# shortref.org solution

- instead of the URL use a **persistent identifier - handle from shortref.org**
- can be updated to new target location
- contains additional metadata
- is monitored





# Solution for users

- go to <http://shortref.org>
- fill out target url and metadata
- use the PID and save the token

shortref.org

Create Easy-to-Cite persistent dynamic URLs

Generate Update

URL to shorten | The URL to be shortened

Provide the following metadata that will be used to identify your resource in case the above URL is broken or no longer available.

Title Describe the resource that points to the URL

Report Email In case of broken link users will be able to contact you on this email

Prefix Customize the generated link with custom prefix

DataSet Name Name of the dataset the link pointed to

DataSet Version Add the version of the dataset


shortref.org

Create Easy-to-Cite persistent dynamic URLs

Generate Update

URL to shorten | [api.crossref.org/works?rows=10&offset=0](http://api.crossref.org/works?rows=10&offset=0)

Shorten Handle

 <http://hdl.handle.net/11346/H9QX>

Remember the token **525ed712-aed4-45b0-b210-dd1e5735bd81** to update the handle in future.

Provide the following metadata that will be used to identify your resource in case the above URL is broken or no longer available.

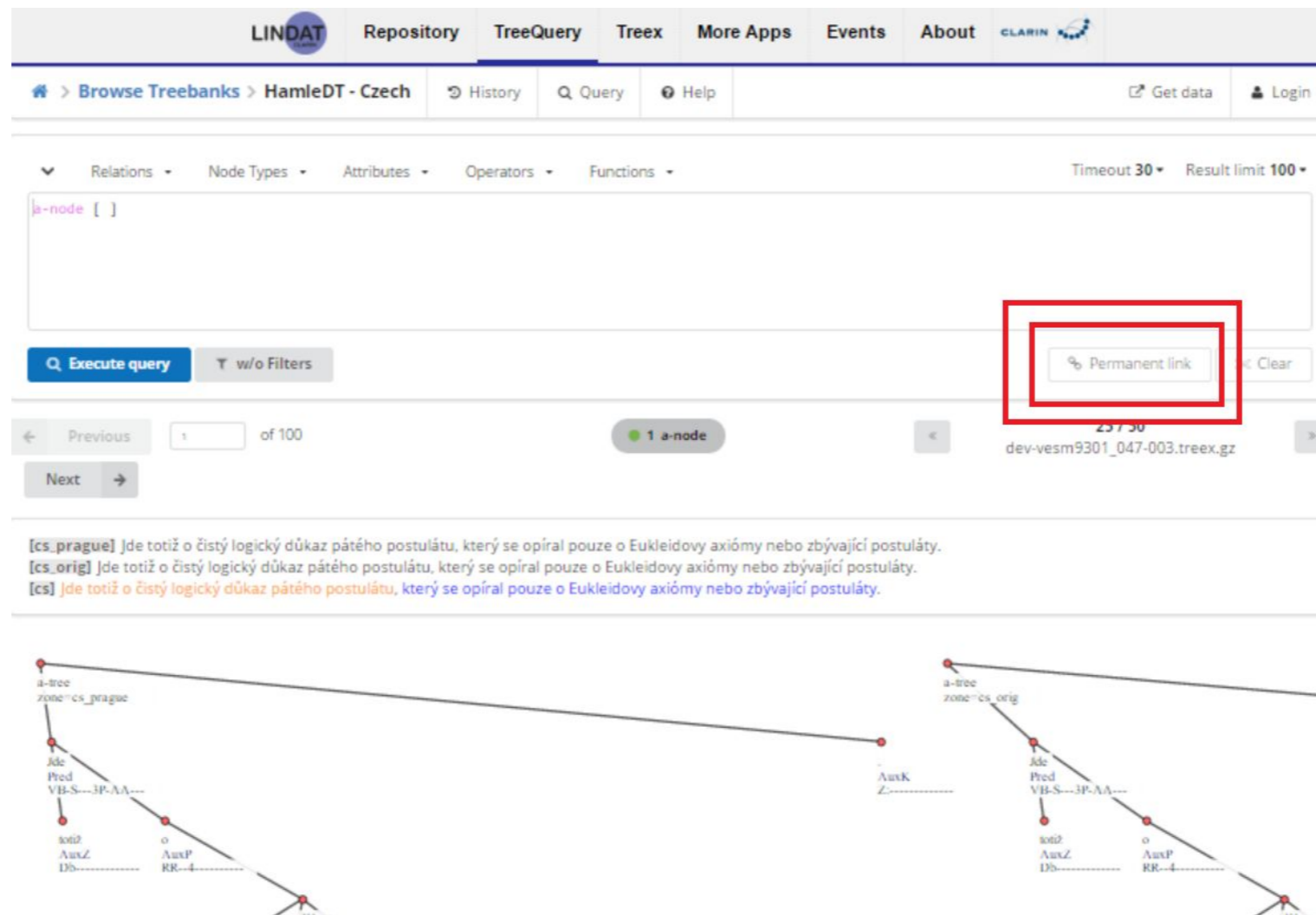
Title Crossref API usage

Report Email [misutka@ufal.mff.cuni.cz](mailto:misutka@ufal.mff.cuni.cz)

Prefix Customize the generated link with custom prefix

# Solution for services

- use REST API provided by shortref.org
- fill out target url and metadata
- return the PID to user and save the token



The screenshot shows the LINDAT TreeQuery interface. The top navigation bar includes 'LINDAT', 'Repository', 'TreeQuery', 'Treex', 'More Apps', 'Events', and 'About'. Below the navigation bar, there are tabs for 'Browse Treebanks', 'HamleDT - Czech', 'History', 'Query', and 'Help'. The main area displays a query result for 'a-node' with a 'Permanent link' button highlighted in red. The result is a tree structure with nodes and edges, and a map of Europe is visible in the bottom right corner.

1 a-node  
dev-vesm9301\_047-003.treex.gz

[cs\_prague] Jde totiž o čistý logický důkaz pátého postulátu, který se opíral pouze o Eukleidovy axiomy nebo zbývající postuláty.  
[cs\_orig] Jde totiž o čistý logický důkaz pátého postulátu, který se opíral pouze o Eukleidovy axiomy nebo zbývající postuláty.  
[cs] Jde totiž o čistý logický důkaz pátého postulátu, který se opíral pouze o Eukleidovy axiomy nebo zbývající postuláty.

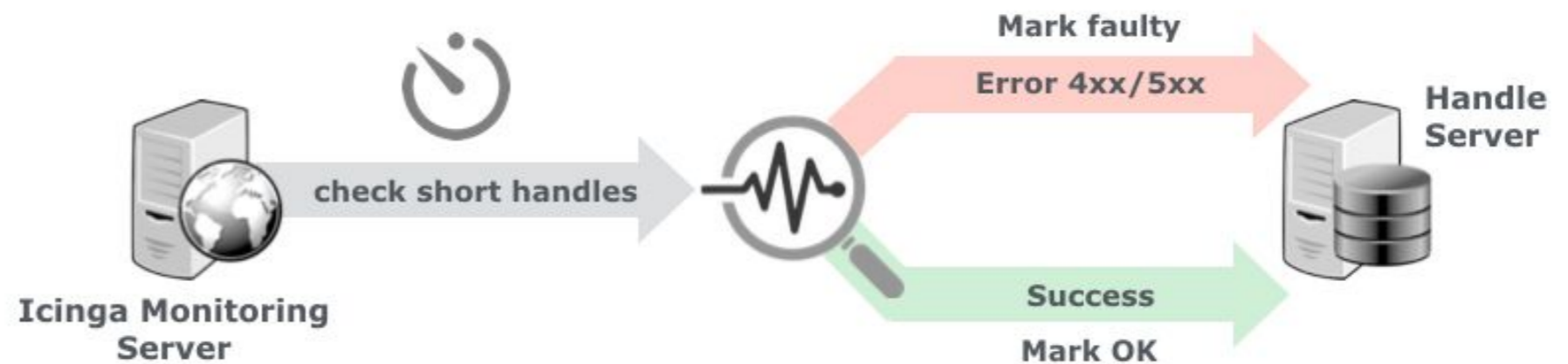


# Summary

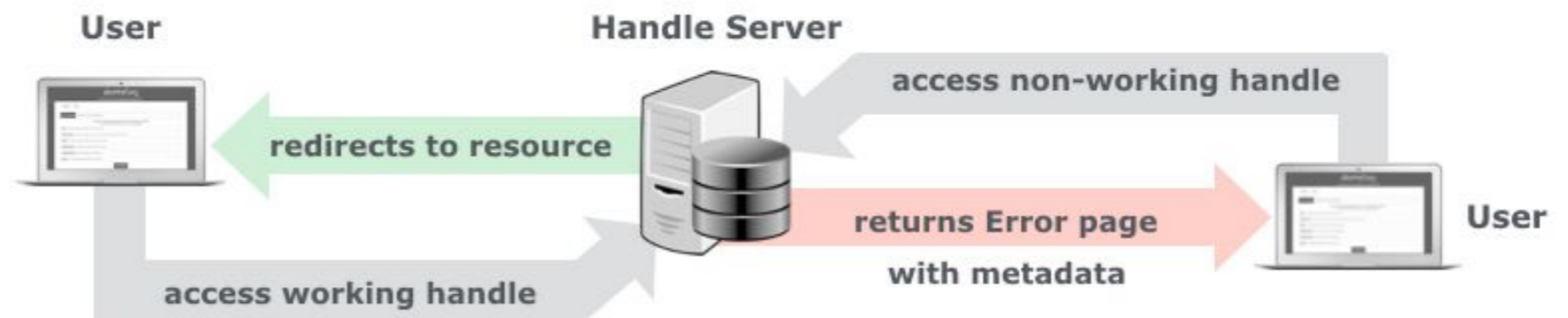
## 1 Creation



## 2 Monitoring



## 3 Resolution



# Persistency

- secret token can be used to update target URL
- keeping history of changes
  - internally



- all handles monitored from icinga
- not reachable or 4xx/5xx (except 401) error code returned for N consecutive times
- changed target URL to <http://hdl.handle.net/11346/SHORTREF-PR6O#hdl=XXX>
- <http://hdl.handle.net/11346/fff-TN7H>



# shortref.org

Create Easy-to-Cite persistent dynamic URLs

Handle you've tried to access was registered with [shortref.org](http://shortref.org). In order to provide the best services, we at [shortref.org](http://shortref.org) actively monitor the URLs handles re

The URL <http://ffff> your handle resolves to is **down since 2016-08-24T07:53:19+02:00**.  
Until it comes up again, use the information provided below to gather details about what this URL was.

**TITLE** fff

**POSITORY** LINDAT/CLARIN digital library at Institute of Formal and Applied Linguistics, Charles University in Prague

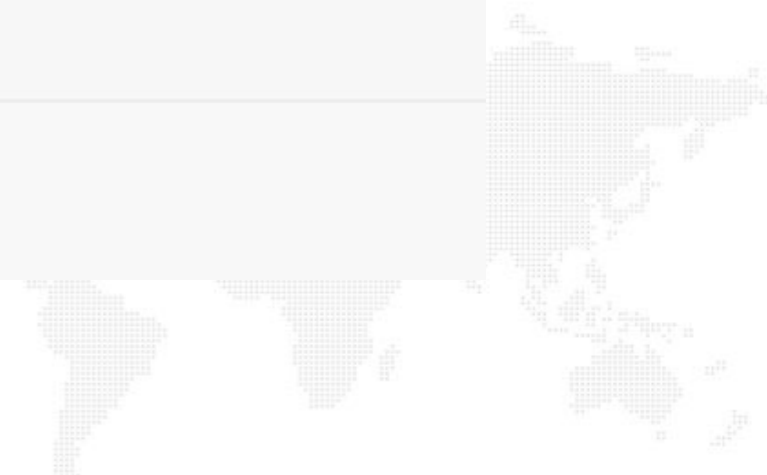
**JBMITDATE** 2016-08-24T13:16:09Z

**ORTEMAIL** fff

In case you have any question about why you are seeing this page please contact [our support](#).

Powered by  LINDAT  
CLARIN

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- dedicated prefix - **11346**
- can be completely migrated from our infrastructure with zero downtime





- shortref.org
  - <https://github.com/ufal/lindat-shortener>
- handle-server
  - bundled into lindat-dspace as
    - "storage\_type" = "CUSTOM"
    - "storage\_class" = "org.dspace.handle.HandlePlugin"
  - <http://hdl.handle.net/11346/IRYS>
- monitoring
  - <https://github.com/ufal/lindat-monitoring>
  - <http://hdl.handle.net/11346/CCKR>





# Future work

- define the minimal metadata schema precisely
- citing format exports for handles based on their metadata
  - crossref for handles
- standalone library or handle server REST API



# Thank you

## Q&A

