Version 7 is Closing In

Don’t Look for a Reason… Look for a Way Out.

https://github.com/fieldmuseum/EMu-Documentation
Warning

The following presentation may contain minor graphic events intended for adult, immature audiences. Viewer discretion is advised.
● Paranoia
● Suspicion
● Desperation
● Fear

The Stages of Standardization
A brief history of the FMNH EMu-verse

~2000  - 60+ Separate datasets/databases in 7 formats
~2001  - Board approves funding for a consolidated system
~2005  - KE Software’s EMu selected as Museum CMS
        - Botany/Zoology/Anthropology/Geology(mostly)/Exhibitions migrations
~2017  - FMNH starts planning the overhaul of EMu
~2018  - Standardization development begins
~2020? - v7…
A brief history of the FMNH EMu-verse

~2000 - 60+ Separate datasets/databases in 7 formats
~2001 - KE Software’s EMu selected as Museum CMS
~2005 - LOVE / HATE
~2015 - Australia + Sweden
~2017 - !!!Axiell Roadmap!!!
~2018 - FMNH embarks on project to overhaul EMu
~2020? - v7…
Axiell’s Roadmap
Axiell’s Roadmap

.... The Stack

- The Common Database Platform
  - *Mongo, Cassandra, Oracle, SQLServer.*

- Business Rules Engine
  - *Separation of logic from database structure.*

- User Interface
  - *Bigger screens, User configuration...*

**ALL THE THINGS!**

[The only way out lies within your mind.]
Axiell’s Roadmap

Alex Felt, Deputy Head of R&D, presents the Axiell ALM Product Roadmap. In this presentation he covers our vision for modernising and integrating our technology stack.

You can learn more about the Common Database Platform here; what makes Axiell DAMS unique here; and Axiell Collections Web UI version 2 here.
Axiell’s Roadmap

.... Much Rejoicing, EMu is going to become

- Stronger
  - Better functionality
- Faster
  - Speedy queries
- More Beautiful
  - New design and layout

[The only way out lies within your mind.]
Axiell’s Roadmap

- Stronger
- Faster
- More Beautiful
Axiell’s Roadmap

- Better
- Stronger
- Faster
Axiell’s Roadmap

.... Much Wailing and Gnashing of Teeth

- More scary
  - Which database to pick?

- More complicated
  - What’s going to break?

- More evil
  - No more fire icon for insurance!

WOULD THIS BECOME…?

[The only way out lies within your mind.]
THE SCARIEST MIGRATION OF ALL TIME.

THE EMuCIST

Extended Director's Cut & Original Theatrical Version

Directed by William Friedkin

THE SCARIEST MIGRATION OF ALL TIME.
Field Museum’s Options

.... What were they

- Resist it?
- 
- Wait it out?
- 
- Embrace it?
- 

[The only way out lies within your mind.]
Field Museum’s Options

.... What were they

- Resist it?
  - You absolutely will NOT make me use Mongo. Ok we’ll use Mongo.

- Wait it out?
  - Heck yeah, someone else can go first.

- Embrace it?
  - We can make it more efficient? Woot!

[The only way out lies within your mind.]
Field Museum’s Options

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[The only way out lies within your mind.]
PAGE NOT FOUND

The link you clicked may be broken or the page may have been removed.

VISIT THE HOMEPAGE OR CONTACT US ABOUT THE PROBLEM
Field Museum’s Options

.... What were they

- Resist it?
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- Wait it out?
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So What Next?

[The only way out lies within your mind.]
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~2020? - v7…
In the film, characters move from cell to cell, and each cell is labeled by three numbers, with each of these numbers being in the range 1-999. They learn to avoid those cells having a number which is a prime or a power of a prime.

There are 193 numbers below 1000 which are a prime or a power of a prime. This total is made up of the 168 primes less than 1000, namely


plus the 11 numbers which are squares of primes

4 = 2², 9 = 3², 25 = 5², 49 = 7², 121 = 11², 169 = 13², 289 = 17², 361 = 19², 529 = 23², 841 = 29², 961 = 31²

the 4 numbers which are cubes of primes

8 = 2³, 27 = 3³, 125 = 5³, 343 = 7³

the 3 numbers which are fourth powers of primes

16 = 2⁴, 81 = 3⁴, 625 = 5⁴

and the following seven numbers which are higher powers of primes

32 = 2⁵, 243 = 3⁵, 64 = 2⁶, 729 = 3⁶, 128 = 2⁷, 256 = 2⁸, 512 = 2⁹

So the probability that a single number less than 1000 chosen at random is not a prime or a power of a prime is approximately (999-193)/999 = 0.807, and the probability that three chosen at random all have this property is approximately 0.807³ = 0.525, or slightly better than 50:50.
The Stages of Standardization

- Paranoia
- Suspicion
- Desperation
- Fear
The Four Stages of Standardization

.... It is going to be different.

- **Paranoia**
  - *Unjustified suspicion and mistrust of others.*

- **Suspicion**
  - *Cautious distrust [of change].*

- **Desperation**
  - *A state of despair, typically one which results in rash or extreme behaviour.*

- **Fear**
  - *An unpleasant emotion caused by the threat of danger, pain or harm.*

[The only way out lies within your mind.]
Paranoia, *Paranoja, Paranoia, Paranoia,* 편집병

.... Involvement

- Working Groups
  - A team for every module
  - Open to anyone
  - Non-IT leader

[The only way out lies within your mind.]
Paranoia, Paranoja, Paranoia, Paranoia, 편집병

... Involvement

- ALLLLLL the people
  - 26 Working groups
  - 161 people equivalents (+T3)
  - 53 different people (+T3)
  - minus 4 senior staff

[The only way out lies within your mind.]
Paranoia, Paranoja, Paranoia, Paranoia, 편집병

.... Involvement

- **ALLLLLL the people**
  - 26 Working groups
  - 161 people equivalents (+T3)
  - 53 different people (+T3)
  - minus 4 senior staff
  - plus 4 brand new babies

[The only way out lies within your mind.]
Suspicion, *Podejrzenia, Angoscia, Sospecha, 의혹*

.... Transparency

- Communication
  - Regular updates
  - Shared documents
  - Safe space - No request/topic taboo

[The only way out lies within your mind.]
Suspicion, *Podejrzenia, Angoscia, Sospecha*, 의혹

.... Transparency

- ALLLLLLL the meetings (so far…)
  - 96 Working group meetings
  - 10 All-day conclaves
  - Testing?
  - Re-testing?
  - Training?

[The only way out lies within your mind.]
Desperation, Desperacja, Disperazione, Desesperacion, 절망

.... Teamwork

- Donuts
  - With chocolate
  - Without chocolate
  - Whiteboards
  - Toys
  - Sharing a brain, a voice and having each others backs
  - The occasional unicorn

[The only way out lies within your mind.]
Fear, Strach, Paura, Miedo, 무서움

.... Documentation

- Did we have any?
  - What was it about?
  - Who had it?
  - Where was it?
  - What format was it in?
  - How up to date was it?

[The only way out lies within your mind.]
Fear, Strach, Paura, Miedo, 무서움

... Documentation

- Did we have any? Yes

[The only way out lies within your mind.]
Fear, *Strach, Paura, Miedo*, 무서움

... Documentation

- Did we have any? **But**

[The only way out lies within your mind.]
Fear, Strach, Paura, Miedo, 무서움

... Documentation
- ALLLLLLLLL the docs

[The only way out lies within your mind.]
Reconstruction, Rekonstrukce, Ricostruzione, Reconstrucción, 재건

[The only way out lies within your mind.]

- Shock and Disbelief
- Denial
- Guilt
- Anger and Bargaining
- Depression, Loneliness, Reflection
- Reconstruction
- Acceptance

7 Stages of Grief
Reconstruction, Rekonstrukce, Ricostruzione, Reconstrucción, 재건

.... Documentation

- Discussion
  - Workflows
  - System
  - Data
  - Topics/Issues

- Changes
  - Structural
  - Procedural

[The only way out lies within your mind.]
Reconstruction, Rekonstrukce, Ricostruzione, Reconstrucción, 재건

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Reconstruction, Rekonstrukce, Ricostruzione, Reconstrucción, 재건

.... Documentation

- Workflows
- System
- Data
- Topics/Issues
  - Data Changes

Standards & Workflow Discussion

[module name]

What does a [module name] record represent?
System Level Defaults
Mandatory Fields
Attachment Field Display Values
Security/Permissions
Resources -> Tools
Page Views
Reports

Workflows
Topics/Issues
Lookup lists/Dropdowns
Established Standards
Tab List by Group or Record Type
Summary Data Definitions
Original Discussion Documents
Structural Changes
Follow-up Tasks for Module Group-Leader
Reconstruction, Rekonstrukce, Ricostruzione, Reconstrucción, 재건
Reconstruction, Rekonstrukce, Ricostruzione, Reconstrucción, 재건

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<table>
<thead>
<tr>
<th>Lookup lists/dropdowns:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Column Names Affected:</td>
<td></td>
</tr>
<tr>
<td>Lookup Level:</td>
<td></td>
</tr>
<tr>
<td>Security: Default &quot;Locked + Admin&quot;, &quot;Open + Everyone&quot;, &quot;Locked + Everybody&quot; with Edit access.</td>
<td></td>
</tr>
<tr>
<td>Values: x, y, z</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Event Type</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Column Names Affected: EventTypeOfEvent</td>
<td></td>
</tr>
<tr>
<td>Lookup Level: 1</td>
<td></td>
</tr>
<tr>
<td>Security: Default &quot;Locked + Admin&quot;</td>
<td></td>
</tr>
<tr>
<td>Values: Annual, Conference</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Media Audience [Intended Audience - DEPRECATED]</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Column Names Affected: IntendedAudienceTab</td>
<td></td>
</tr>
<tr>
<td>Lookup Level: 1</td>
<td></td>
</tr>
<tr>
<td>Security: Default &quot;Locked + Admin&quot;</td>
<td></td>
</tr>
<tr>
<td>Values: Community Group, General Public, Invited Guests, Public</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Publication Kind</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Column Names Affected: EventKindTab, &quot;Kind&quot;</td>
<td></td>
</tr>
<tr>
<td>Lookup Level: 1</td>
<td></td>
</tr>
<tr>
<td>Security: Default &quot;Locked + Admin&quot;</td>
<td></td>
</tr>
<tr>
<td>Values: Book, Chapter, Cited Reference, Dissertation, Legacy Website, URL, Online Video, Taxonomic Treatment, Thesis, Website, Published Inventory</td>
<td></td>
</tr>
</tbody>
</table>
Reconstruction, Rekonstrukce, Ricostruzione, Reconstrucción, 재건

... Documentation

- Workflows
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Standards & Workflow Discussion [module name]

What does a [module name] record represent?
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Reconstruction, Rekonstrukce, Ricostruzione, Reconstrucción, 재건
Topic 13: Duplicate event attachment fields.

**DISCUSSION POINTS:** One on the objects table(s) isAssociatedEventRef and a separate one on the request tab ReaAssociatedEventRef. Can we consolidate it? 

**DECISION:** All data in ReaAssociatedEventRef is duplicated in IsAssociatedEventRef. DEPRECATED: ReaAssociatedEventRef. Read Only only pre.

**DATA CHANGES**
- Pre new development.
- Post development: #10

Topic 14: Compounds field for Preparators

**DISCUSSION POINTS:** Geology preparators need a field to document compounds.

**DECISION:** Add to the Description tab.

**DATA CHANGES**
- Doc None
- Pre new development.
- Post development:

Topic 15: Using the Analysis Tab instead of Notes.

**DISCUSSION POINTS:** Conversation uses the Notes tab (with Note Type = 'Analysis') to hold analysis information not this tab. As part of previous development some data has already been transferred to the fields on this tab. One issue is that references currently held on the notes tab is mulitvalued and there may be more than one reference attached. Also the tab mockup asks for a MW per entry table with columns and notes.

**DECISION:** Related tab as 'Examination' Information from the Notes tab with Note Type = 'Analysis' will be transferred to the new Examination tab. Use Collaboration party type to handle multiple 'Involved Parties.' Multiple reference will be handled as separate rows. This to avoid excessive back-end structural complications (double nested tables).

**DATA CHANGES**
- Pre new development #9
<table>
<thead>
<tr>
<th>Pre/Next ID</th>
<th>Development Field Name</th>
<th>Lookup Affected</th>
<th>Today's Date</th>
<th>Proposed Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>7</td>
<td>Pgr</td>
<td>N/A</td>
<td>9 May 2018</td>
<td>Complete transfer of data from the pgr 2014 tab of Collector Unit Catalog tab from insects to this new version. Organize and merge Lookup.</td>
</tr>
<tr>
<td>8</td>
<td>CtrCollected/ChangeTab</td>
<td>N/A</td>
<td>18 May 2018</td>
<td>Attach catalogue records to the existing record so that it shows up on the AIExTab.</td>
</tr>
<tr>
<td>13</td>
<td>CtrDescription/Type/Tab</td>
<td>N/A</td>
<td>23 Jul 2018</td>
<td>Move Tissue data from TISSUE ONLY records to the existing specimen records. Delete the Tissue only records.</td>
</tr>
<tr>
<td>21</td>
<td>CtrDescription/ChangeTab</td>
<td>N/A</td>
<td>9 May 2018</td>
<td>Add new catalog records to the existing record.</td>
</tr>
<tr>
<td>22</td>
<td>CtrOtherNames/Tab</td>
<td>N/A</td>
<td>18 May 2018</td>
<td>Move ECS Other names to the Description/Tab/Docs/Description/Tab (Type: Economic Botany).</td>
</tr>
<tr>
<td>23</td>
<td>CtrOtherNames/OtherTab</td>
<td>N/A</td>
<td>9 May 2018</td>
<td>Move ECS Other names to the Description/Tab/Docs/Description/Tab (Type: Economic Botany).</td>
</tr>
<tr>
<td>24</td>
<td>CtrOtherNames/Tab</td>
<td>N/A</td>
<td>9 May 2018</td>
<td>Move ECS Other names to the Description/Tab/Docs/Description/Tab (Type: Economic Botany).</td>
</tr>
<tr>
<td>25</td>
<td>CtrOtherNames/Tab</td>
<td>N/A</td>
<td>9 May 2018</td>
<td>Move ECS Other names to the Description/Tab/Docs/Description/Tab (Type: Economic Botany).</td>
</tr>
</tbody>
</table>

**Group Name**: Standards - Insects

**Change Submitted By**: jones

**Change Approved By**: john

**Ticket Number**: 31724

**Status**: OPEN

**Ticket No**: PB1255 OPEN

**Description**: Replace "Natural History" with "Natural Object" and "Cultural with Cultural Object." Also need to update lookup values and tab switching to match.

**Notes**: Merge Voucher/Name/Number values (which includes non-numeric page numbers) to Voucher/Name/Number tab.

**Taxes**: Cryptogam/Algae/Taxonomic/Name/Tab (Cryptogam/Taxonomic/Name/Tab/Species/Tab) (cryptogam/taxonomic/species/taxonomic/Name/Tab)

**Table**: Cryptogam/Algae/Taxonomic/Name/Tab (Cryptogam/Taxonomic/Name/Tab/Species/Tab) (cryptogam/taxonomic/species/taxonomic/Name/Tab)

**References**:_registered

**Field**: CoExpedition/Tab (CoExpedition/Tab/CoExpedition/Tab/CoExpedition/Tab)

**Tab**: Cryptogam/Algae/Taxonomic/Name/Tab (Cryptogam/Taxonomic/Name/Tab/Species/Tab) (cryptogam/taxonomic/species/taxonomic/Name/Tab)

**Table**: Cryptogam/Algae/Taxonomic/Name/Tab (Cryptogam/Taxonomic/Name/Tab/Species/Tab) (cryptogam/taxonomic/species/taxonomic/Name/Tab)

**Field**: CoExpedition/Tab (CoExpedition/Tab/CoExpedition/Tab/CoExpedition/Tab)

**Tab**: Cryptogam/Algae/Taxonomic/Name/Tab (Cryptogam/Taxonomic/Name/Tab/Species/Tab) (cryptogam/taxonomic/species/taxonomic/Name/Tab)

**Field**: CoExpedition/Tab (CoExpedition/Tab/CoExpedition/Tab/CoExpedition/Tab)

**Tab**: Cryptogam/Algae/Taxonomic/Name/Tab (Cryptogam/Taxonomic/Name/Tab/Species/Tab) (cryptogam/taxonomic/species/taxonomic/Name/Tab)
Reconstruction, Rekonstrukce, Ricostruzione, Reconstrucción, 재건

... Documentation

- Discussion
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Module: [module name]
Contact:
Team Members:
Admin Review:

In Development:
FMNH documentation finalised:
Submitted for Axiell review:
Date implemented in test:
Date implemented in live:

SUMMARY STRINGS
Tabs to be added
Tabs to be updated
Tabs no longer needed:
Tools
Broken Things
Red Flags
Reconstruction, Rekonstrukce, Ricostruzione, Reconstrucción, 재건
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Workflow Documentation Style Guide [v1]

- Formatting
- Use Google Docs
- Use built-in headings
- Table of Contents
- Sharing 1
- File naming format
- Versioning
- Graphics
- Audience
- Definitions
- Explanations
- Step-by-step Processes
- Cautions
- Links (to other documentation)
Feart, Strach, Paura, Miedo, 무서움

... Documentation

- ALLLLLLLL the docs
Fear, Strach, Paura, Miedo, 무서움

... Documentation

- ALLLLLLLLL the docs
Reconstruction, Rekonstrukce, Ricostruzione, Reconstrucción, 재건

.... Current Progress

**In development:** JIRA-208 FMNH: 2018 Structural Changes - Round 1

1. efmnhrepatriation - v2
2. einsurance - v2
3. emovements - v2
4. erights - v2
5. evaluations - v2
6. eparties - v2
7. eeevents - v2
8. Enhmstratigraphy - v2
9. esites - v2
10. emultimedia - v2
11. econservation - v2
Reconstruction, Rekonstrukce, Ricostruzione, Reconstrucción, 재건

.... Current Progress

*FMNH Structural changes finalized:*

1. etaxonomy - v1
2. efmnhtransactions - v1
3. ecollectionsevents - v1
4. elocations - v1

*Tab consolidation in progress:*

5. ecatalogue
   a. Library/Photo Archives
   b. Anthropology
   c. Botany
   d. Zoology
   e. Geology
   f. Exhibitions
   g. Action

6. eexhibitobjects - 1st review
<table>
<thead>
<tr>
<th>Module</th>
<th>Before</th>
<th>After</th>
<th>Difference</th>
</tr>
</thead>
<tbody>
<tr>
<td>ebibliography</td>
<td>20</td>
<td>14</td>
<td>-6</td>
</tr>
<tr>
<td>ecollection (IN PROGRESS)</td>
<td>123</td>
<td>89</td>
<td>-34</td>
</tr>
<tr>
<td>econservation</td>
<td>21</td>
<td>19</td>
<td>-2</td>
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<tr>
<td>eeurope</td>
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<td>eexhibits</td>
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<td>eefmhntransactions</td>
<td>21</td>
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<td>egazeteer</td>
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<td>elocations</td>
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<td>emultimedia</td>
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There’s Something About Notes

“You don’t wanna mess up what you’ve done. It’s like Jordan coming back: You’re scared to mess up the legacy.” – Ice Cube

- "DOR"
- "IOR"
- “AOR”
- “Tail was broken off in collecting specimen. When placed in sack was swallowed by owner, discovered later when killed.”
- “Pink below chin. Stripes brownish cream.”
- “Formerly identified as Rana livida.”
- “Fieldiana Zool. 55(1) (J D Hassinger 1968) provides extensive documentation on 1965 Street Expedition to Afghanistan.”
- “W/few exception all in coitus, besmeared w/ indiv. eggs which floated separately in tubs, pools in rock 6 only on ground or walls, but all within standing water.”
There’s Something About Notes

.... How many fields does it take?

- Note ~400
- Remark ~100
- Comment ~100
Quotes

- "I don't believe you."
- "Show me everything. I don't know what I want to see. I'll know it when I see it."
- "Will it know what I want to ask before I know?"
- "As long as I get what I want."
- "Who's going to make my data changes."
- "I'm too old to learn how to do this."
- "I'm not paid to do data entry anyway, so I won't be doing this."
- "Isn't that a bibliography record?"
- "I don't care"
- "I bake because punching people is frowned upon by society."
- "Why are we doing this?"
- "What's the [insert field name] for again?"
- "We don't do it that way."
- "Donuts, make people happy."
- "No one will do that"
- "Can't you/we/I just [insert complicated thing that I don't want to do properly]..."
  - "put it in notes?"
  - "add more values to the Security Department field? (e.g. Everyone, Admin)"
  - "use the keywords?"
Questions, Comments, Thoughts?

And you can’t stop it.
Citations/Sources

- CubEMu - https://animals.sandiegozoo.org/animals/emu
- Cube poster - © Cube Libre (?)
- Cube red room - https://austinfilmschool.org/blog/2017/10/12/31-days-of-horror-day-12-cube
The Brain
The Voice
The Brawn
The Cast

T3 - The Brain
T3 - The Voice
T3 - The Brawn
T3+1 - Rainbows and Unicorns

Angel thing
mere mortal
“Devil doll” (based on this one)