



K4STATS

Exports E-Congres

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KEY4 EVENTS

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1. Objectives

The Register and Media Manager platforms already have exports covering most of the statistical needs. However, the goal of this document is to evolve them to eliminate manual interventions and ensure data reliability. This way, we can automate data synchronization via file deposition in a OneDrive directory.

2. Needs

In order to limit manual reformatting interventions and eliminate noise, the export must:

⚠ Always provide the **same list and format of files** for each event, even if the file does not contain any data.

⚠ Provide **only registered user data** from the Register, *RegistrationID**. This identifier must be **identical** between the **Register** exports and the **Media Manager** exports.

⚠ Provide **only data related to sessions** for live events. We consider that all sessions start and end at the scheduled time.

⚠ Ensure the reliability of attendance durations for live events through the management rules defined later.

⚠ Provide labels that can be displayed in the reports, particularly the *Type* fields.

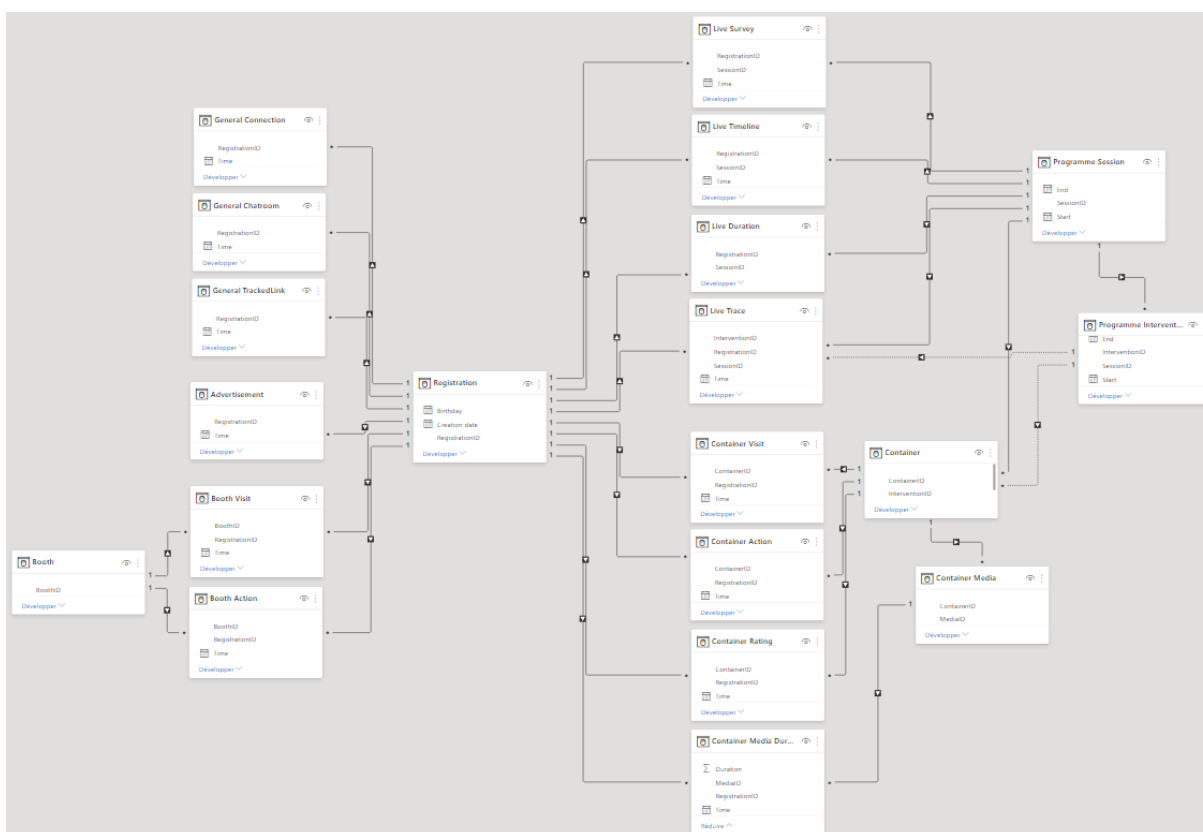


3. Exports description

Exports are grouped by statistical domain:

- General: statistical data on general navigation and interactivity
- Program: program data
- Live: statistical data on live events
- Container: statistical data on media pages
- Channel: channel data
- Booth: statistical data on booths
- Advertisement: statistical data on advertising management
- User: user data

3.1.Overview



❗ Columns operating with a uniqueness index are displayed in **blue**.

❗ Columns that can accept empty values are displayed in **gray**

3.2.General

3.2.1. general.connection.xlsx

Login history to the platform with information extracted from the web browser

Column	Type	Description
RegistrationID	String	Unique identifier of the registered user
Time	Datetime	Date and time of login
UserAgent	String	Web user agent
<i>Browser</i>	String	Web browser
<i>OS</i>	String	Operating System
<i>IsMobile</i>	Boolean	Mobile device
<i>Timezone</i>	String	Time zone of the web browser
<i>Language</i>	String	Web browser language
<i>City</i>	String	City location
<i>Region</i>	String	Region location
<i>Country</i>	String	Country location
<i>Continent</i>	String	Continent location
<i>Latitude</i>	Decimal	Latitude location
<i>Longitude</i>	Decimal	Longitude location
<i>ScreenResolution</i>	String	Screen resolution
<i>VideoCodecs</i>	String	List of video codecs
<i>AudioCodecs</i>	String	List of audio codecs

⚠ For on-site attendees, enforce at least 1 login per day.

❗ Free IP geolocation API <https://ip-api.com/>

❗ Example of simple and lightweight JavaScript
<https://lehollandaisvolant.net/tout/tools/browser/>

3.2.2. general.trackedlink.xlsx

History of tracked link usage.

Column	Type	Description
RegistrationID	String	Unique identifier of the registered user
Time	Datetime	Date and time of clicking on the link
TrackedLink	String	Name of the tracked link



⚠ Tracked links are managed by the advertising management system as they are primarily used for navigation statistics.

3.2.3. [general.chatroom.xlsx](#)

History of messages sent in the chat.

Column	Type	Description
RegistrationID	String	Unique identifier of the registered user
Time	Datetime	Date and time of message sent
<i>Chatroom</i>	String	Chatroom name (empty if private message)
IsPrivate	Boolean	Private message

3.3. Programme

3.3.1. [programme.session.xlsx](#)

List of sessions in the program

Column	Type	Description
SessionID	String	Unique session identifier
<i>Reference</i>	String	Session reference
Session	String	Session title
Room	String	Room where the session's live broadcast is streamed
Start	Datetime	Date and time of the session start
End	Datetime	Date and time of the session end
<i>Category</i>	String	Session category
<i>Type</i>	String	Session type
<i>Theme</i>	String	Session theme

3.3.2. [programme.intervention.xlsx](#)

Schedule of live session

Column	Type	Description
InterventionID	String	Unique identifier of the intervention
SessionID	String	Session identifier
<i>Reference</i>	String	Intervention reference
Intervention	String	Intervention title
Start	Datetime	Date and time of the intervention start
End	Datetime	Date and time of the intervention end

3.4. Live

3.4.1. [live.trace.xlsx](#)

Attendance record of a registered user in a session

Column	Type	Description
RegistrationID	String	Unique identifier of the registered user



SessionID	String	Session identifier
InterventionID	String	Identifier of the intervention
Time	Datetime	Date and time of receiving the attendance record, with minute precision

⚠ Minute precision.

⚠ A registered user **cannot be present multiple times simultaneously in a session**.

⚠ A registered user can be present multiple times simultaneously in multiple sessions.

3.4.2. live.duration.xlsx

Duration of a registered user's attendance in a live session. Calculated based on attendance records.

Column	Type	Description
RegistrationID	String	Unique identifier of the registered user
SessionID	String	Session identifier
Duration	Integer	Cumulative duration in minutes

⚠ Consider that a registered user has attended the session if they have a cumulative duration greater than 5 minutes (= remove all users who have a viewing duration less than 5 minutes).

3.4.1. live.survey.xlsx

Survey history

Column	Type	Description
RegistrationID	String	Unique identifier of the registered user
SessionID	String	Session identifier
Survey	String	Survey name
Time	Datetime	Date and time
Type	String	Survey type <i>Single, Multi-select</i>
Response	String	Answer label
IsCorrect	Boolean	Is the answer correct

3.4.2. live.timeline.xlsx

History of interactions on the live session timeline (messages and surveys)

Column	Type	Description
RegistrationID	String	Unique identifier of the registered user
SessionID	String	Session identifier
Time	Datetime	Date and time of question creation
Type	String	Interaction type <i>Question, Comment...</i>
Message	String	Content of the message or survey



Status	String	Question status <i>Moderated, Deleted, Validated...</i>
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3.5. Container

3.5.1. container.xlsx

Liste of pages

Column	Type	Description
ContainerID	String	Unique identifier of page
SessionID	String	Session identifier
InterventionID	String	Intervention identifier
Container	String	Page name

3.5.2. container.visit.xlsx

History of page visits

Column	Type	Description
RegistrationID	String	Unique identifier of the registered user
ContainerID	String	Container identifier
Time	Datetime	Date and time of the view

3.5.3. container.action.xlsx

History of page actions

Column	Type	Description
RegistrationID	String	Unique identifier of the registered user
ContainerID	String	Container identifier
Time	Datetime	Visit date and time
Type	String	Type of action among <i>Video, Link, Pdf, Comment, Question, Rating, Share Twitter, Share Facebook, Share LinkedIn</i>
Action	String	Action name
MediaID	String	Typical case Video and Audio

⚠ Rating actions are also counted here.

⚠ Each launch of Video and Audio is counted.

3.5.4. container.rating.xlsx

History of page ratings

Column	Type	Description
RegistrationID	String	Unique identifier of the registered user
ContainerID	String	Container identifier



Time	Datetime	Date and time of the rating
Rating	Integer	Numeric value of the rating

3.5.5. container.media.xlsx

List of media on the pages

Column	Type	Description
MediaID	String	Unique identifier of the media
ContainerID	String	Identifier of the page
Media	String	Media name
Type	String	Media type <i>Pdf, Video, Image, Audio</i>
Duration	Integer	Duration in seconds of media such as Video or Audio

3.5.6. container.media.duration.xlsx

History of viewed media

Column	Type	Description
RegistrationID	String	Unique identifier of the registered user
MediaID	String	Unique identifier of the media
Time	Datetime	Date and time of viewing
Duration	Integer	Cumulative viewing duration in seconds

ⓘ Only for media of type Video and Audio

3.5.7. container.channel.xlsx

Relationship between media pages and channels

Column	Type	Description
ContainerID	String	Identifier of the page
CategoryID	String	Unique identifier of the channel
CategoryName	String	Name of the channel

3.6. Channel

3.6.1. channel.xlsx

List of channels and their parent channels

Column	Type	Description
CategoryID	String	Unique identifier of the channel
Name	String	Name of the channel
CategoryParentID	String	Unique identifier of the parent channel



3.7. Booth

3.7.1. booth.xlsx

List of booths

Column	Type	Description
BoothID	String	Unique identifier of the booth
Booth	String	Name of the booth

3.7.1. booth.visit.xlsx

History of booth visits

Column	Type	Description
RegistrationID	String	Unique identifier of the registered user
BoothID	String	Unique identifier of the booth
Time	Datetime	Visit date and time
IsAnonymous	Boolean	Sharing data

3.7.2. booth.action.xlsx

History of actions by attendees at the booths

Column	Type	Description
RegistrationID	String	Unique identifier of the registered user
BoothID	String	Unique identifier of the booth
Time	Datetime	Visit date and time
Type	String	Action type <i>Logo, Link, Pdf, Video, Video Call, Chat, Meeting, Contact, Treasure</i>
Action	String	Action name
Title	String	Media title
IsAnonymous	Boolean	Sharing data

3.1. Advertisement

3.1.1. advertisement.xlsx

Statistical data of the advertising management system

Column	Type	Description
RegistrationID	String	Unique identifier of the registered user
Time	Datetime	Action date and time
Type	String	Type of advertising space <i>Banner, Popup, Pre-roll</i>
Advertisement	String	Advertisement name



Action	String	Action type <i>View, Click</i>
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⚠ Tracked links are managed by the advertising system as they are primarily used for navigation statistics. Note that only knowledge of the Media Manager configuration allows distinguishing between an advertising link and navigation tracking.

3.2. User

3.2.1. user.field.xlsx

User data are custom fields to be synchronized, initially coming from the Register (a checkbox on the platform side for the retrieval of these fields).

Column	Type	Description
RegistrationID	String	Unique identifier of the registered user
FieldId	String	Unique identifier of the field
FieldName	String	Field name
FieldValue	String	Field value

⚠ The value of a field is by default a unique value, but it may be multiple values. In this case, the values will be separated by a double pipe "||".

4. Export generation

4.1. Introduction

The K4Econgres/K4Community platform is responsible for the automated generation (following prior setup) of exports and their synchronization to the cloud if configured.

4.2. Setup request

K4Econgress

The setup of export generation is initiated through an initial request via a Jira ticket or a request from the Product Owner. The project's technical lead will set up a cron job with the recurrence of export generation on the server and their synchronization to the cloud if configured.



Microsoft Onedrive

The setup and opening of a OneDrive account is done through the following configuration via a request:

- Creation of a PowerBI user with a license to access OneDrive
- Creation of an "app registration"
- Example to follow:
https://portal.azure.com/#view/Microsoft_AAD_RegisteredApps/ApplicationMenuBlade/~/%2Fview/appId/24306abb-593f-4e17-b4c7-babd0990fdbc/isMSAApp~/false
- Creation of a secret
- Go through all the menus on the left
- In "API permissions," do not forget to click the "Grant admin consent for..." button to authorize the permissions to be executed

Create a directory structure in the Shared Documents of the organization:

- At K4: <https://key4events.sharepoint.com/Documents%20partages/>
- At ERS: <https://ersnet.sharepoint.com/Shared%20Documents%22>

You need to create the folders: CongressPlatform/Exports/ at this location.

The user powerbi@ersnet.org or key4events.org should only be used for authentication – data is presumably stored in these shared folders.

4.3. OneDrive synchronization (optional)

The K4Econgres/K4Community platform provides a configuration page for adding a Microsoft OneDrive as a cloud storage space for file generation. Please consult with the Product Owner for access and modification of these settings.

OneDrive settings

The configuration of the Onedrive API is reserved for advanced use, contact the project manager for its use

TenantId :

Clientid :

ClientSecret :



5. Changelog

Version	Date	Auteur	Description
1.2	02/04/2021	Anthony FERRIERE	Creation of the documentation on the initial specifications
1.4	27/04/2021	Anthony FERRIERE	Refinement of naming and structure
1.5	26/05/2021	Anthony FERRIERE	Addition of the page concept (container)
1.6	02/05/2024	Quentin BENARD	• Addition of a changelog table • Update of the Export Generation section • Addition of the channel concept • Addition of the custom field concept (user.field) allowing listing of Register fields checked on the platform for synchronization

