



**Development, creation
and further evolution of
the Event Picking Service
within the ATLAS Event
Index project**

A.V. Yakovlev

ATLAS EventIndex

- **The EventIndex is the global catalogue of all ATLAS events**
- **For each event, each data format and each processing version, it contains:**
 - **Event identifiers (run and event number);**
 - **Location (GUID of the file containing it) and provenance;**
 - **Trigger and other useful metadata;**
- **Main use case is event picking for detailed analysis and/or displays**

Event Picking service

D. Barberis, E. Alexandrov, I. Alexandrov, A. Yakovlev

Introduction

- **Some physics analyses need to extract many events in order to process them with enhanced algorithms**
 - $\gamma\gamma \rightarrow WW$ analysis:
 - The first round 50k events (2019)
 - The second round 136k events (2021)
 - $B_c^* \rightarrow B_c$ gamma analysis:
 - 16K events (2023)
 - $Z \rightarrow \text{TauTau}$ selections:
 - 11K events (2023)

Event Picking service

Introduction

Example is the “ $\gamma\gamma \rightarrow WW$ ” analysis (50k events in RAW format out of the 18 billion events in Run 2 (about 10 million files)) described in https://indico.cern.ch/event/939372/contributions/4017178/attachments/2107421/3544354/spagan_exclWW.pdf and discussed in the Jira ticket <https://its.cern.ch/jira/browse/DATREP-169>.

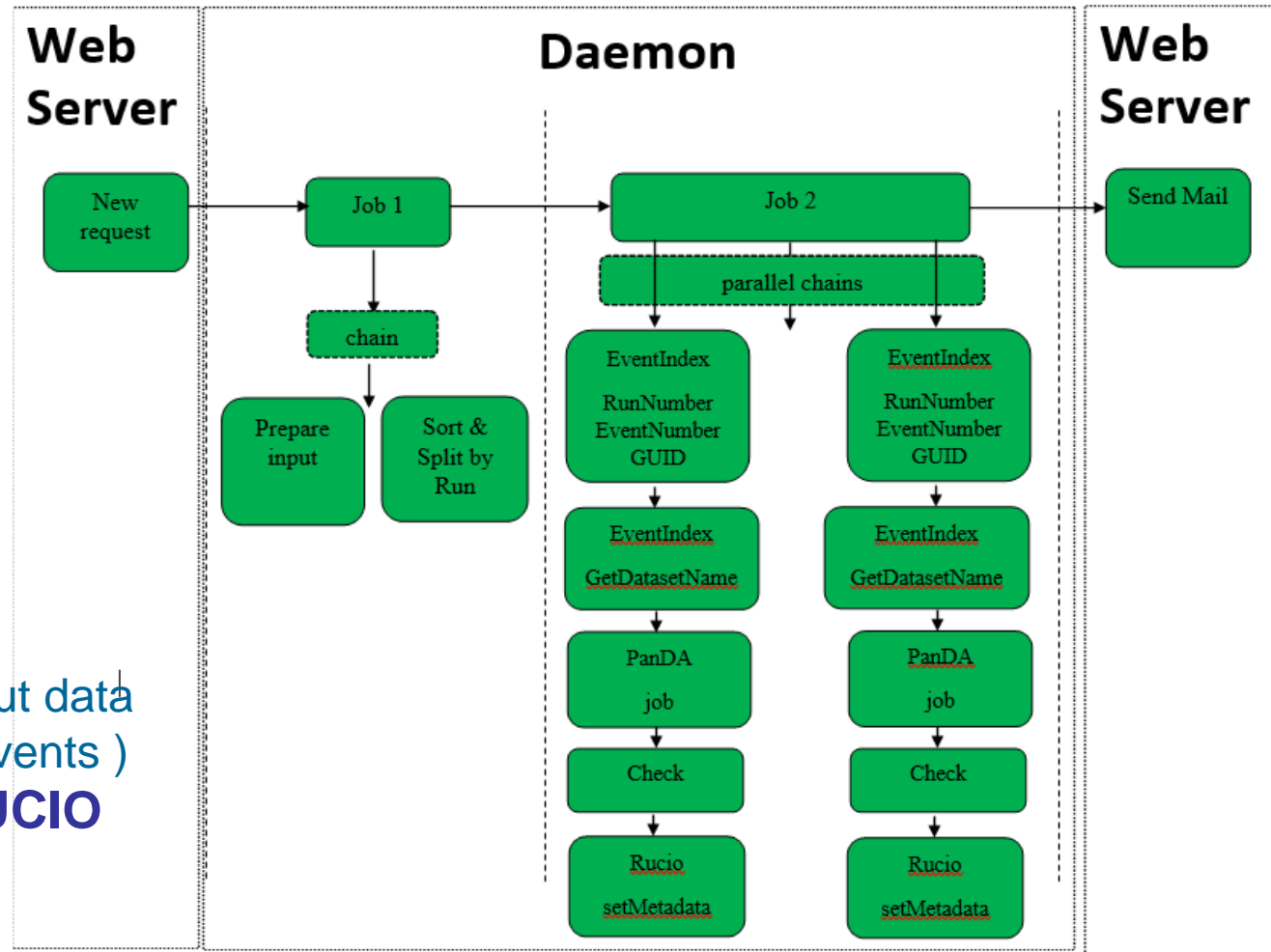
An automatic system to extract the requested events and deliver them to the requestors is therefore needed: the Event Picking Service

User requirement

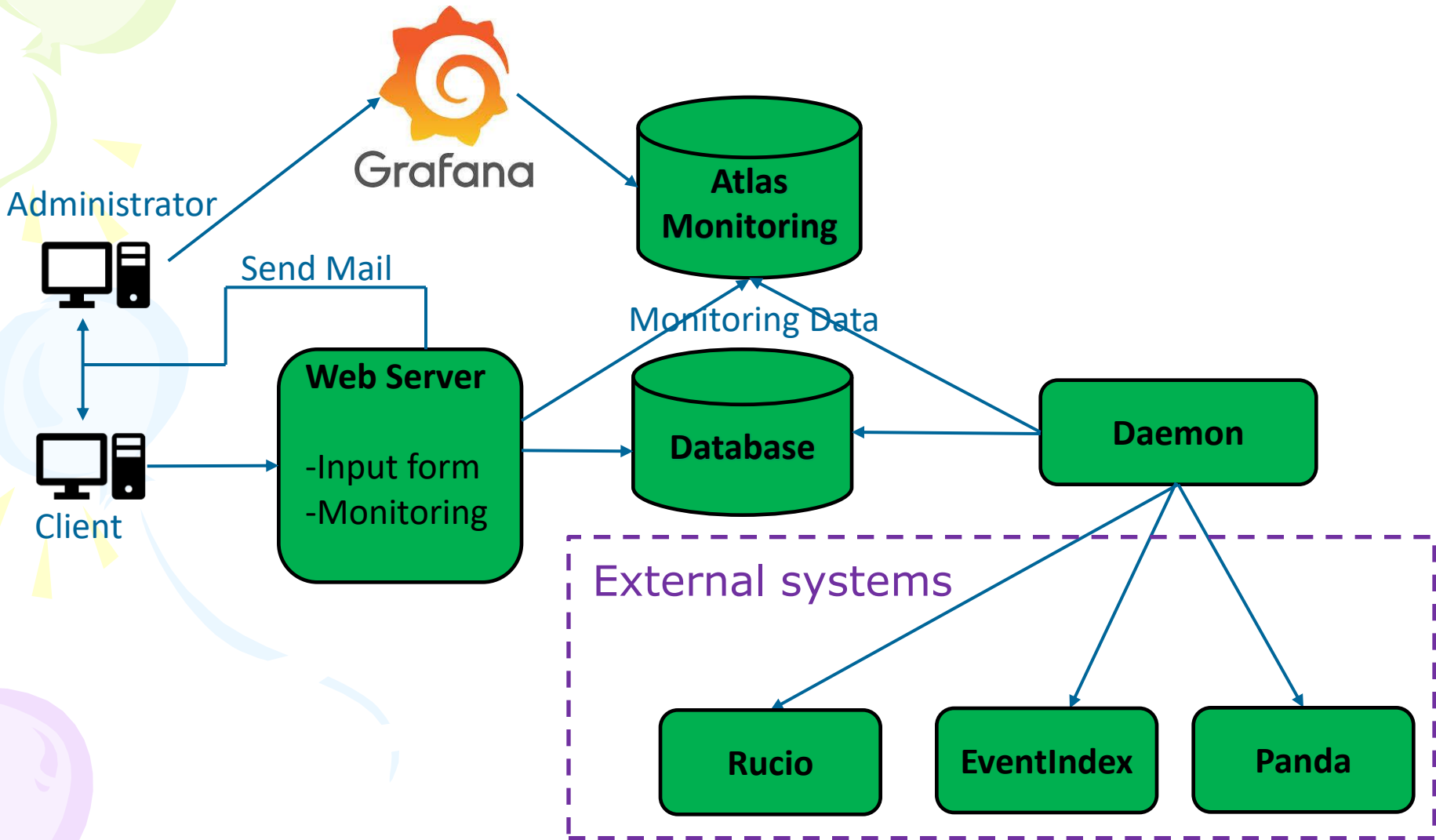
https://docs.google.com/document/d/1WxB_5OjyAuiTujxblu_GrDm6SpE0BU4B4_lx8zYxdjc/edit#heading=h.2mbya2n6yh2h

Event Picking service: Main stages

- **Get request**
- **Split tasks by Run**
- **Get GUIDs**
(require for PanDa job)
- **Get Dataset Name**
(require for PanDa job)
- **Start PanDA Job**
(Real copy events)
- **Verification**
(should validate the output data possible duplicate/ skip events)
- **Set Metadata in RUCIO**
- **Send mail**
(user notification)



Event Picking service: Architecture



Event Picking service: Web Server

Basic technologies:

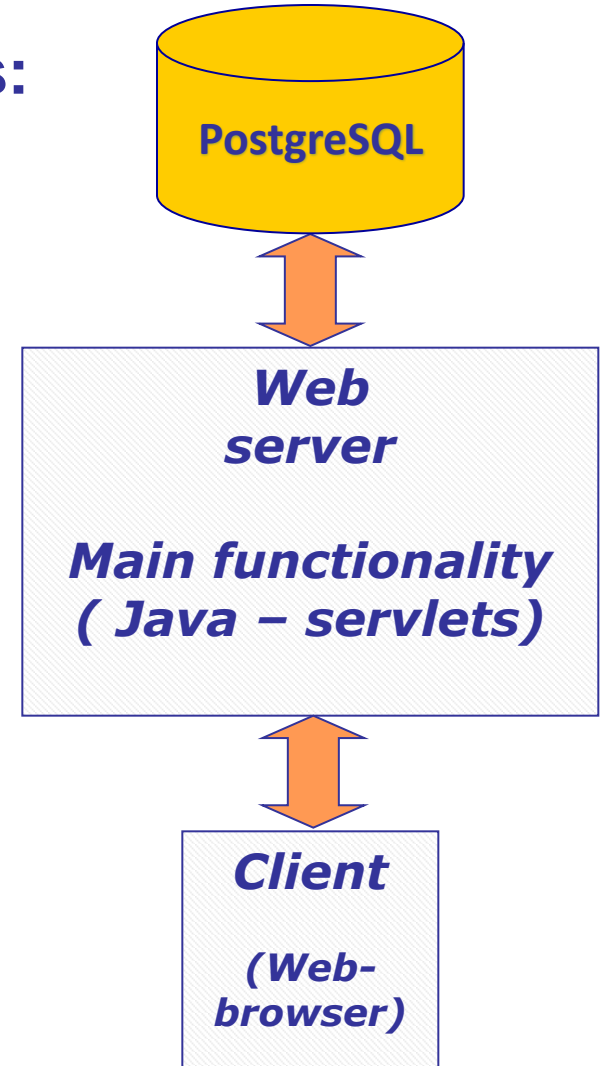
- PostgreSQL;
- Apache Tomcat;
- JAVA;
- JQuery;
- HTML / CSS / JAVA-script;
- WALT

Start page :

<https://atlas-event-picking.cern.ch/eventpicking/>

Web service is available outside of CERN
(need CERN SSO authorization)

16.10.2024



EPS: Create new request

- all required fields must be filled
- text file must contain only strings like **XXX YYYY**
(first column – **run number**, second column – **event number**)

Event Picking Service Web: v. 2.5.01 Daemon: v. 1.3.41 Aleksandr Iakovlev alexander.iakovlev@cern.ch Logout

Common Info My Operations Requests Monitoring Admin Panel

My requests New request Subscriptions

* Data format: RAW	* User (client) name: Aleksandr Iakovlev
Project name: <input checked="" type="radio"/> real data <input type="radio"/> Monte Carlo data	* User e-mail (identifier): alexander.iakovlev@cern.ch
Trigger stream: physics_Main	Subscription type: Every day notification
AMI tag:	
File containing run and event numbers : Обзор... Файлы не выбраны.	<input type="button" value="Submit request"/> <input type="button" value="Clear form"/>

Data format - required field - choose one of several formats.

Project name - string like "dataXX_YYYY" (if real data) or "mcNN_YYYY" (if Monte Carlo). Also the "Trigger stream" field is enabled if real data and is disabled if Monte Carlo.

Trigger stream - the field is active if real data.

AMI tag - the field is active if the data format is not "RAW".

File containing run and event numbers - required field - a text file containing strings like "XXX YYYY", first column - **run number**; second column - **event number**.

Caution !! If the file format does not meet this requirement, the server will return an error.

User name - required field

User e-mail - required field - e-mail, to which the results of the request processing will be sent.

EPS: Request monitoring

list of requests

search filter by different fields

current status of request

Event Picking Service Web: v. 2.5.01 Daemon: v. 1.3.41

Aleksandr Iakovlev alexander.iakovlev@cern.ch Logout

Common Info My Operations **Requests Monitoring** Admin Panel

All requests Request detail

Request ID: Data format: All formats Request state: all
 in the queue for processing
 in processing
 completed successfully
 request error
 finished but some errors

Client Name: Trigger stream:
Client E-mail: AMI tag:

Find Clear filters

List of requests

Request ID	Client Name	Client E-mail	Data Format	Project Name	Stream	AMI Tag	CREATED	CHANGED	Request category	STATE	Detail status
208	Evgeny Alexandrov	evgeny.alexandrov@cern.ch	RAW	data24_13p6TeV	physics_Main		01.07.2024 14:13, WebInterface	01.07.2024 14:13, Job.run	Restarted (PID: 207) (Full Restart) View Parent request	Critical Error	Finished with fatal error
207	Evgeny Alexandrov	evgeny.alexandrov@cern.ch	RAW	data24_13p6TeV	physics_Main		01.07.2024 14:02, WebInterface	01.07.2024 14:02, Job.run	Normal	Critical Error	Finished with fatal error
197	Evgeny Alexandrov	evgeny.alexandrov@cern.ch	RAW	data18_13TeV	physics_BphysLS		03.05.2024 14:29, WebInterface	14.06.2024 12:37, ReqFinJob with reqId=206	Normal	Error	Done with error in chain
196	Evgeny Alexandrov	evgeny.alexandrov@cern.ch	RAW	data18_13TeV	physics_Main		04.04.2024 12:27, WebInterface	04.04.2024 12:28, Job.run	Restarted (PID: 194) (Restart only check tasks) View Parent request	Request finished	Done without error and warning
195	Evgeny Alexandrov	evgeny.alexandrov@cern.ch	RAW	data18_13TeV	physics_Main		02.04.2024 15:07, WebInterface	02.04.2024 17:17, Job.run	Restarted (PID: 190) (Full Restart) View Parent request	Request finished	Done without error and warning

EPS: Request monitoring

Request detail information:

start and stop time for jobs, chains and tasks

link to Panda page for Panda task

output result in JSON format

current statuses of jobs, chains and tasks

Request view :

Data format: RAW	Request ID: 353	Category: Restarted (PID: 343) (Full Restart) View Parent request
Project name: data16_13TeV	Client name: Dario Barberis	Created: 04.10.2024 10:53 WebInterface
Stream: physics_Main	Client e-mail: dario.barberis@cern.ch	Last change: 04.10.2024 10:53 JobController.run
AMI tag:		Current status: Panda job
Input file (run and event numbers): ↓		Detail status: Panda job (Object is running)

Request progress

Jobs:	Job Name	Initial state	Current state	Created	Changed	Job Status
↳	SplitJob	Sort and split (state: SORT_SPLIT)	Panda job (state: PANDA_PART)	04.10.2024 10:53 ↓	04.10.2024 10:53 ↓	Finalized. Total=1, errors=0, warnings=0 (Done without error and warning)
↳	PandaJob	Panda job (state: PANDA_PART)	Panda job (state: PANDA_PART)	04.10.2024 10:53 ↓	04.10.2024 17:46	Running job:160 from 171 (Object is running)

Chains:	Chain number / Run number	Current state	Created	Changed	Chain status
↳	1 310634	Panda job (state: PANDA_PART)	04.10.2024 10:53:28 ↓	04.10.2024 10:53:28	Starting (Object is running)

Tasks:	Task Name	Initial state	Current state	Created	Changed	Task status
↳	getIndex	Panda job (state: PANDA_PART)	Get dataset name for first guid (state: GET_DATASET_NAME)	04.10.2024 10:53:28 ↓	04.10.2024 10:53:58 ↓	Finalized (Done without error and warning)
↳	getDatasetName	Get dataset name for first guid (state: GET_DATASET_NAME)	Chain workflow. Get GUIDs from EventIndex (state: INDEXED_TASK)	04.10.2024 10:53:58 ↓	04.10.2024 10:54:18 ↓	Finalized (Done without error and warning)
↳	panda	Chain workflow. Get GUIDs from EventIndex (state: INDEXED_TASK)	Chain workflow. Start panda task (state: START_PANDA_TASK) Panda job	04.10.2024 10:54:18 ↓	04.10.2024 13:19:27 ↓	Finalized (Done without error and warning)
↳	check	Chain workflow. Start panda task	Chain workflow. Start panda task	04.10.2024 13:19:32	04.10.2024 13:19:42	Start (Object is running)

EPS: Request monitoring

Request results panel:

Request view :

Data format: RAW	Request ID: 95	Created: 23.04.2022 23:21	WebInterface
Stream: physics_Main	Client name: aleksand	Last change: 24.04.2022 15:50	Job.run
AMI tag:	Client e-mail: aleksand@jinr.ru	Current status: Request finished	
		Detail status: Request finished (Done with restart task)	

Request result :

[Download Summary Report file \(+\)](#)

[Event Processing Progress Log \(+\)](#)

[Result files \(+\)](#)

typical request result (for completed successfully)

Request result

DatasetName	file_path
group.proj-evind.data15_13TeV.00276954.physics_Main.evtpick.DRAW_EVT PICK.r60t22992	/eos/atlas/atlasgroupdisk/proj-evind/rucio/group/proj-evind/67/c2/group.proj-evind.27840942._000001.event.dat
group.proj-evind.data15_13TeV.00276689.physics_Main.evtpick.DRAW_EVT PICK.r60t23003	/eos/atlas/atlasgroupdisk/proj-evind/rucio/group/proj-evind/5a/69/group.proj-evind.27840962._000001.event.dat
group.proj-evind.data15_13TeV.00276952.physics_Main.evtpick.DRAW_EVT PICK.r60t23002	/eos/atlas/atlasgroupdisk/proj-evind/rucio/group/proj-evind/a1/f7/group.proj-evind.27840961._000001.event.dat
group.proj-evind.data15_13TeV.00279345.physics_Main.evtpick.DRAW_EVT PICK.r60t23013	/eos/atlas/atlasgroupdisk/proj-evind/rucio/group/proj-evind/
group.proj-evind.data15_13TeV.00276790.physics_Main.evtpick.DRAW_EVT PICK.r60t23001	/eos/atlas/atlasgroupdisk/proj-evind/rucio/group/proj-evind/36/d1/group.proj-evind.27840958._000002.event.dat
group.proj-evind.data15_13TeV.00278880.physics_Main.evtpick.DRAW_EVT PICK.r60t23016	/eos/atlas/atlasgroupdisk/proj-evind/rucio/group/proj-evind/1c/78/group.proj-evind.27840979._000002.event.dat /eo /group/proj-evind/aa/a4/group.proj-evind.27840979._000001.event.dat /eos/atlas/atlasgroupdisk/proj-evind/rucio/grc evind.27840979._000003.event.dat /eos/atlas/atlasgroupdisk/proj-evind/rucio/group/proj-evind/ed/54/group.proj-evir
group.proj-evind.data15_13TeV.00279764.physics_Main.evtpick.DRAW_EVT PICK.r60t22996	/eos/atlas/atlasgroupdisk/proj-evind/rucio/group/proj-evind/19/99/group.proj-evind.27840952._000002.event.dat /ec /group/proj-evind/6c/a3/group.proj-evind.27840952._000001.event.dat
group.proj-evind.data15_13TeV.00279685.physics_Main.evtpick.DRAW_EVT PICK.r60t23017	/eos/atlas/atlasgroupdisk/proj-evind/rucio/group/proj-evind/
group.proj-evind.data15_13TeV.00279259.physics_Main.evtpick.DRAW_EVT PICK.r60t22994	/eos/atlas/atlasgroupdisk/proj-evind/rucio/group/proj-evind/43/05/group.proj-evind.27840946._000001.event.dat /ec /group/proj-evind/ba/aa/group.proj-evind.27840946._000002.event.dat
group.proj-evind.data15_13TeV.00279284.physics_Main.evtpick.DRAW_EVT PICK.r60t23010	/eos/atlas/atlasgroupdisk/proj-evind/rucio/group/proj-evind/a7/80/group.proj-evind.27840969._000002.event.dat /eo /group/proj-evind/d1/0e/group.proj-evind.27840969._000001.event.dat

EPS: Request monitoring

Request detail information:
(Finished but some errors exists)

Finalized. Total= 165, errors=13
(Done with error in chain)

L 2 303892 Chain finished (state: DONE_CHAIN) 24.08.2024 10:00:48 31.08.2024 07:38:54 Finalized (Done with check errors)

Tasks:	Task Name	Initial state	Current state	Created	Changed	Task status
L	getIndex	Panda job (state: PANDA_PART)	Get dataset name for first guid (state: GET_DATASET_NAME)	24.08.2024 10:00:49	24.08.2024 10:01:35	Finalized (Done without error and warning)
L	getDatasetName	Get dataset name for first guid (state: GET_DATASET_NAME)	Chain workflow. Get GUIDs from EventIndex (state: INDEXED_TASK)	24.08.2024 10:01:35	24.08.2024 10:01:55	Finalized (Done without error and warning)
L	panda	Chain workflow. Get GUIDs from EventIndex (state: INDEXED_TASK)	Chain workflow. Start panda task (state: START_PANDA_TASK) PanDA job	24.08.2024 10:01:55	30.08.2024 03:39:57	Finalized (Done without error and warning)
L	check	Chain workflow. Start panda task (state: START_PANDA_TASK)	Chain workflow. Start panda task (state: START_PANDA_TASK)	30.08.2024 03:39:57	31.08.2024 07:33:54	Wait restart (Error state of task)
L	check	Chain workflow. Start panda task (state: START_PANDA_TASK)	Chain finished (state: DONE_CHAIN)	31.08.2024 07:38:54	31.08.2024 07:38:54	ru.jinr.atlas.eventindex.RestartException: (Error state of task)

L 3 303892 Chain finished (state: DONE_CHAIN) 24.08.2024 10:00:48 30.08.2024 22:51:56 Finalized (Done with warning: skip or duplicate events)

Tasks:	Task Name	Initial state	Current state	Created	Changed	Task status
L	getIndex	Panda job (state: PANDA_PART)	Get dataset name for first guid (state: GET_DATASET_NAME)	24.08.2024 10:00:49	24.08.2024 10:19:53	Finalized (Done without error and warning)
L	getDatasetName	Get dataset name for first guid (state: GET_DATASET_NAME)	Chain workflow. Get GUIDs from EventIndex (state: INDEXED_TASK)	24.08.2024 10:19:54	24.08.2024 10:40:55	Finalized (Done without error and warning)
L	panda	Chain workflow. Get GUIDs from EventIndex (state: INDEXED_TASK)	Chain workflow. Start panda task (state: START_PANDA_TASK) PanDA job	24.08.2024 10:40:56	30.08.2024 04:12:25	Finalized (Done without error and warning)
L	check	Chain workflow. Start panda task (state: START_PANDA_TASK)	Set metadata to rucio (state: Metadata)	30.08.2024 04:12:25	30.08.2024 22:35:20	Finalized (Done with warning: skip or duplicate events)
L	metadata	Set metadata to rucio (state: Metadata)	Chain finished (state: DONE_CHAIN)	30.08.2024 22:35:20	30.08.2024 22:51:56	Finalized (Done without error and warning)

L 4 303638 Chain finished (state: DONE_CHAIN) 24.08.2024 10:00:49 27.08.2024 08:52:38 Finalized (Done with error in chain)

L 5 303638 Chain finished (state: DONE_CHAIN) 24.08.2024 10:00:49 31.08.2024 06:47:12 Finalized (Done with warning: skip or duplicate events)

EPS: Restart request

"Restart request" - In terms of the Event Picking Service, it means creating a new request using the input from the parent request.

Request view :


Data format: RAW	Request ID: 322	Category: Restarted (PID: 319) (Full Restart) View Parent request
Project name: data18_13TeV	Client name: Semen Turchikhin	Created: 15.04.2024 06:25 WebInterface
Stream: physics_BphysLS	Client e-mail: semen.turchikhin@cern.ch	Last change: 17.04.2024 08:12 Job.run
AMI tag:		Current status: Request finished 
Input file (run and event numbers): 		Detail status: Request finished (Finished with fatal error)

Restart request

Restart request : Request ID: 322

"Restart request" - In terms of the Event Picking Service, it means **creating a new request** using the input from the parent request. A new request will be launched with **your credentials**.

Attention !! There are several options for restarting a request with different options.

Parent request
Request ID: 322
Data format: RAW
Stream: physics_BphysLS
AMI tag:
Created: 15.04.2024 06:25 WebInterface
Last change: 17.04.2024 08:12 Job.run
Current status: Request finished 
Detail status: Request finished (Finished with fatal error)
Client name: Semen Turchikhin
Client e-mail: semen.turchikhin@cern.ch

* User (client) name:

* User e-mail (identifier):

Full Restart
 Restart Warning & Error branches
 Restart **only** check tasks

EPS: Time result

Request	Number of events	Version	Time
YY -> WW	50k	1.0.0	2 weeks
		manual	3 months
YY -> WW	136k	Beta version	3 months
$B_c^* \rightarrow B_c$	16K	1.2.37	84h
Z -> TauTau	11K	1.2.37	40h

EPS: Available workflows

- **Main**
 - Common workflow for get selected events.
- **Full restart**
 - Restart request with the same parameters.
- **Restart errors and warnings job**
 - Restart only error and warning job.
- **Restart check job**
 - Restart job with check error. Start job since check job.
- **Finalize request (special service request type)**
 - Use in case of critical error of request. Set error for all not finished job.

EPS: Admin Panel

Special tools for Event Picking Service administrators.

Service requests

- Clear information from legacy requests;
- Getting preliminary results;
- Finalization of "asleep" requests;

Common Info | My Operations | Requests Monitoring | **Admin Panel**


All requests | Service requests | Daemon control | System const | Data Tables

Request ID: Data format: Request state: all
 in the queue for processing
 in processing
 completed successfully
 request error
 finished but some errors

Client Name: Trigger stream:
Client E-mail: AMI tag:

List of requests (+)

Request view :

Data format: RAW	Request ID: 208	Category: Restarted (PID: 207) (Full Restart) View Parent request
Project name: data24_13p6TeV	Client name: Evgeny Alexandrov	Created: 01.07.2024 14:13 WebInterface
Stream: physics_Main	Client e-mail: evgeny.alexandrov@cern.ch	Last change: 01.07.2024 14:13 Job.run
AMI tag:		Current status: Critical Error
Input file (run and event numbers): 		Detail status: Critical Error (Finished with fatal error)

EPS: Conclusion

- **The Event Picking Service is running on the production server.**
- **Error handling and automatic fixes have been improved, which is why the speed of the new version has been increased.**
- **The number of users of the service is growing.**
- **The Event Picking Service is flexible and can be used in other experiments once the required workflow is implemented.**

MLIT License management system

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Main goals:

- managing the distribution of licenses**
- audit and analysis of the effectiveness of the use of licenses.**
- making decisions on the purchase of licensed software**



MLIT License management system

Start page :

<http://dev-web.jinr.ru:8080/license/service>

The JINR single sign-on (SSO) is used to authenticate the user and his role when entering the personal account of the LMS.

Detailed report (26.04.2024):

<https://indico.jinr.ru/event/4635/>



Thanks for attention !

16.10.2024



Backup slides

16.10.2024

EPS: Restart request

Critical error for most of chains (Full restart)

Event Picking Service Web: v. 2.2.24 Daemon: v. 1.3.39

Common Info My Operations Requests Monitoring Admin Panel

All requests Service requests Daemon control System const Data Tables

Request ID: Data format: All formats
Client Name: Trigger stream:
Client E-mail: AMI tag:

Request state: all
 in the queue for processing
 in processing
 completed successfully
 request error
 finished but some errors

Find

Clear filters

List of requests (+)

Request view :

Data format: RAW	Request ID: 337	Category: Normal
Project name: data16_13TeV	Client name: Dario Barberis	Created: 06.08.2024 16:34 WebInterface
Stream: physics_BphysDelayed	Client e-mail: dario.barberis@cern.ch	Last change: 24.08.2024 10:00 ReqFinJob with reqId=344
AMI tag:		Current status: Error
Input file (run and event numbers): ↓		Detail status: Error (Done with error in chain)

Restart request

Finalization

Request progress

Jobs:	Job Name	Initial state	Current state	Created	Changed	Job Status
└	SplitJob	Sort and split (state: SORT_SPLIT)	Panda job (state: PANDA_PART)	06.08.2024 16:34 ↓	06.08.2024 16:34 ↓	Finalized. Total=1, errors=0, warnings=0 (Done without error and warning)
└	PandaJob	Panda job (state: PANDA_PART)	Error (state: ERROR)	06.08.2024 16:34 ↓	24.08.2024 10:00	Finalized. Total=0, errors=168 (Done with error in chain)

Hidden requests (+)

168 Errors! Require restart all request!

16.10.2024

22

EPS: Restart request

Critical error for a few of chains (Restart warning & error branches)

group.proj-evind.data16_13TeV.00303832.physics_BphysDelayed.evtpick.DRAW_EVT PICK.n347_11016t34958

```
root://eosatlas.cern.ch:1094//eos/atlas/atlasgroupdisk/proj-evind/rucio/group/proj-evind/u2/r//group.proj-evind.41431871_000027.data.root
root://eosatlas.cern.ch:1094//eos/atlas/atlasgroupdisk/proj-evind/rucio/group/proj-evind/6f/7b/group.proj-evind.41431871_000028.data.root
root://eosatlas.cern.ch:1094//eos/atlas/atlasgroupdisk/proj-evind/rucio/group/proj-evind/1d/22/group.proj-evind.41431871_000029.data.root
root://eosatlas.cern.ch:1094//eos/atlas/atlasgroupdisk/proj-evind/rucio/group/proj-evind/e2/22/group.proj-evind.41431871_000030.data.root
root://eosatlas.cern.ch:1094//eos/atlas/atlasgroupdisk/proj-evind/rucio/group/proj-evind/a3/40/group.proj-evind.41431871_000031.data.root
root://eosatlas.cern.ch:1094//eos/atlas/atlasgroupdisk/proj-evind/rucio/group/proj-evind/1c/4d/group.proj-evind.41431871_000032.data.root
root://eosatlas.cern.ch:1094//eos/atlas/atlasgroupdisk/proj-evind/rucio/group/proj-evind/89/20/group.proj-evind.41431871_000033.data.root
root://eosatlas.cern.ch:1094//eos/atlas/atlasgroupdisk/proj-evind/rucio/group/proj-evind/2d/fd/group.proj-evind.41431871_000034.data.root
root://eosatlas.cern.ch:1094//eos/atlas/atlasgroupdisk/proj-evind/rucio/group/proj-evind/90/fd/group.proj-evind.41431871_000035.data.root
root://eosatlas.cern.ch:1094//eos/atlas/atlasgroupdisk/proj-evind/rucio/group/proj-evind/f1/4e/group.proj-evind.41431871_000036.data.root
root://eosatlas.cern.ch:1094//eos/atlas/atlasgroupdisk/proj-evind/rucio/group/proj-evind/06/14/group.proj-evind.41431871_000037.data.root
root://eosatlas.cern.ch:1094//eos/atlas/atlasgroupdisk/proj-evind/rucio/group/proj-evind/48/9a/group.proj-evind.41431871_000038.data.root
root://eosatlas.cern.ch:1094//eos/atlas/atlasgroupdisk/proj-evind/rucio/group/proj-evind/5b/ec/group.proj-evind.41431871_000039.data.root
root://eosatlas.cern.ch:1094//eos/atlas/atlasgroupdisk/proj-evind/rucio/group/proj-evind/f2/96/group.proj-evind.41431871_000040.data.root
root://eosatlas.cern.ch:1094//eos/atlas/atlasgroupdisk/proj-evind/rucio/group/proj-evind/b6/06/group.proj-evind.41431871_000041.data.root
root://eosatlas.cern.ch:1094//eos/atlas/atlasgroupdisk/proj-evind/rucio/group/proj-evind/34/71/group.proj-evind.41431871_000042.data.root
root://eosatlas.cern.ch:1094//eos/atlas/atlasgroupdisk/proj-evind/rucio/group/proj-evind/70/5b/group.proj-evind.41431871_000043.data.root
root://eosatlas.cern.ch:1094//eos/atlas/atlasgroupdisk/proj-evind/rucio/group/proj-evind/b0/c0/group.proj-evind.41431871_000044.data.root
root://eosatlas.cern.ch:1094//eos/atlas/atlasgroupdisk/proj-evind/rucio/group/proj-evind/a8/1c/group.proj-evind.41431871_000045.data.root
root://eosatlas.cern.ch:1094//eos/atlas/atlasgroupdisk/proj-evind/rucio/group/proj-evind/5e/0d/group.proj-evind.41431860_000001.data.root
root://eosatlas.cern.ch:1094//eos/atlas/atlasgroupdisk/proj-evind/rucio/group/proj-evind/59/ed/group.proj-evind.41431860_000002.data.root
root://eosatlas.cern.ch:1094//eos/atlas/atlasgroupdisk/proj-evind/rucio/group/proj-evind/df/0b/group.proj-evind.41431860_000003.data.root
root://eosatlas.cern.ch:1094//eos/atlas/atlasgroupdisk/proj-evind/rucio/group/proj-evind/78/af/group.proj-evind.41431860_000004.data.root
root://eosatlas.cern.ch:1094//eos/atlas/atlasgroupdisk/proj-evind/rucio/group/proj-evind/34/e3/group.proj-evind.41431860_000005.data.root
root://eosatlas.cern.ch:1094//eos/atlas/atlasgroupdisk/proj-evind/rucio/group/proj-evind/eb/bb/group.proj-evind.41431860_000006.data.root
```

Request progress

Jobs:	Job Name	Initial state	Current state	Created	Changed	Job Status
↳	SplitJob	Sort and split (state: SORT_SPLIT)	Panda job (state: PANDA_PART)	26.09.2024 22:11	26.09.2024 22:11	Finalized. Total=1, errors=0, warnings=0 (Done without error and warning)
↳	PandaJob	Panda job (state: PANDA_PART)	Request finished (state: DONE_REQ)	26.09.2024 22:11	29.09.2024 14:15	Finalized. Total=168, errors=2, warnings=0 (Finished with fatal error)

Only 2 errors. 166 done.

Correct results

EPS: Restart request

Error for a check tasks (Restart only check tasks)

343 warning (error but result file exists)

Result files (+)

Request progress

Jobs:	Job Name	Initial state	Current state	Created	Changed	Job Status
└	SplitJob	Sort and split (state: SORT_SPLIT)	Panda job (state: PANDA_PART)	03.05.2024 15:34	03.05.2024 15:34	Finalized. Total=1, errors=0, warnings=0 (Done without error and warning)
└	PandaJob	Panda job (state: PANDA_PART)	Request finished (state: DONE_REQ)	03.05.2024 15:34	20.05.2024 23:57	Finalized. Total=343, errors=0, warnings=343 (Done with check errors)

Chains:	Chain number / Run number	Current state	Created	Changed	Chain status
└	1 363664	Chain finished (state: DONE_CHAIN)	03.05.2024 15:34:17	05.05.2024 11:51:18	Finalized (Done with check errors)

Tasks:	Task Name	Initial state	Current state	Created	Changed	Task status
└	getIndex	Panda job (state: PANDA_PART)	Get dataset name for first guid (state: GET_DATASET_NAME)	03.05.2024 15:34:17	03.05.2024 15:34:47	Finalized (Done without error and warning)
└	getDatasetName	Get dataset name for first guid (state: GET_DATASET_NAME)	Chain workflow. Get GUIDs from EventIndex (state: INDEXED_TASK)	03.05.2024 15:34:47	03.05.2024 15:35:06	Finalized (Done without error and warning)
└	panda	Chain workflow. Get GUIDs from EventIndex (state: INDEXED_TASK)	Chain workflow. Start panda task (state: START_PANDA_TASK) PanDA job	03.05.2024 15:35:06	05.05.2024 11:17:07	Finalized (Done without error and warning)
└	check	Chain workflow. Start panda task (state: START_PANDA_TASK)	Chain workflow. Start panda task (state: START_PANDA_TASK)	05.05.2024 11:17:07	05.05.2024 11:21:53	Wait restart (Error state of task)
└	check	Chain workflow. Start panda task (state: START_PANDA_TASK)	Chain workflow. Start panda task (state: START_PANDA_TASK)	05.05.2024 11:26:53	05.05.2024 11:39:04	Wait restart (Error state of task)
└	check	Chain workflow. Start panda task (state: START_PANDA_TASK)	Chain workflow. Start panda task (state: START_PANDA_TASK)	05.05.2024 11:44:05	05.05.2024 11:51:18	Max number of restart (Error state of task)