



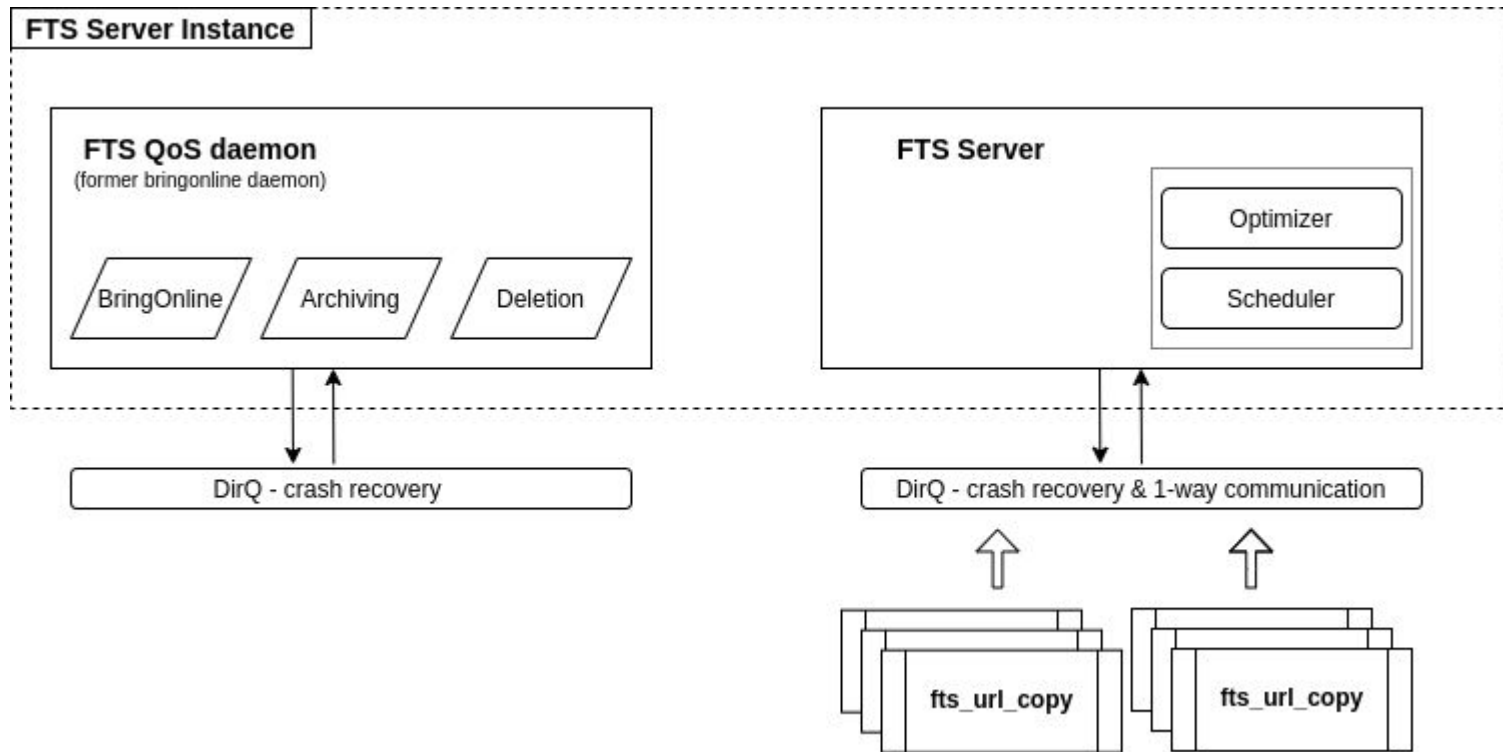
FTS

File Transfer Service

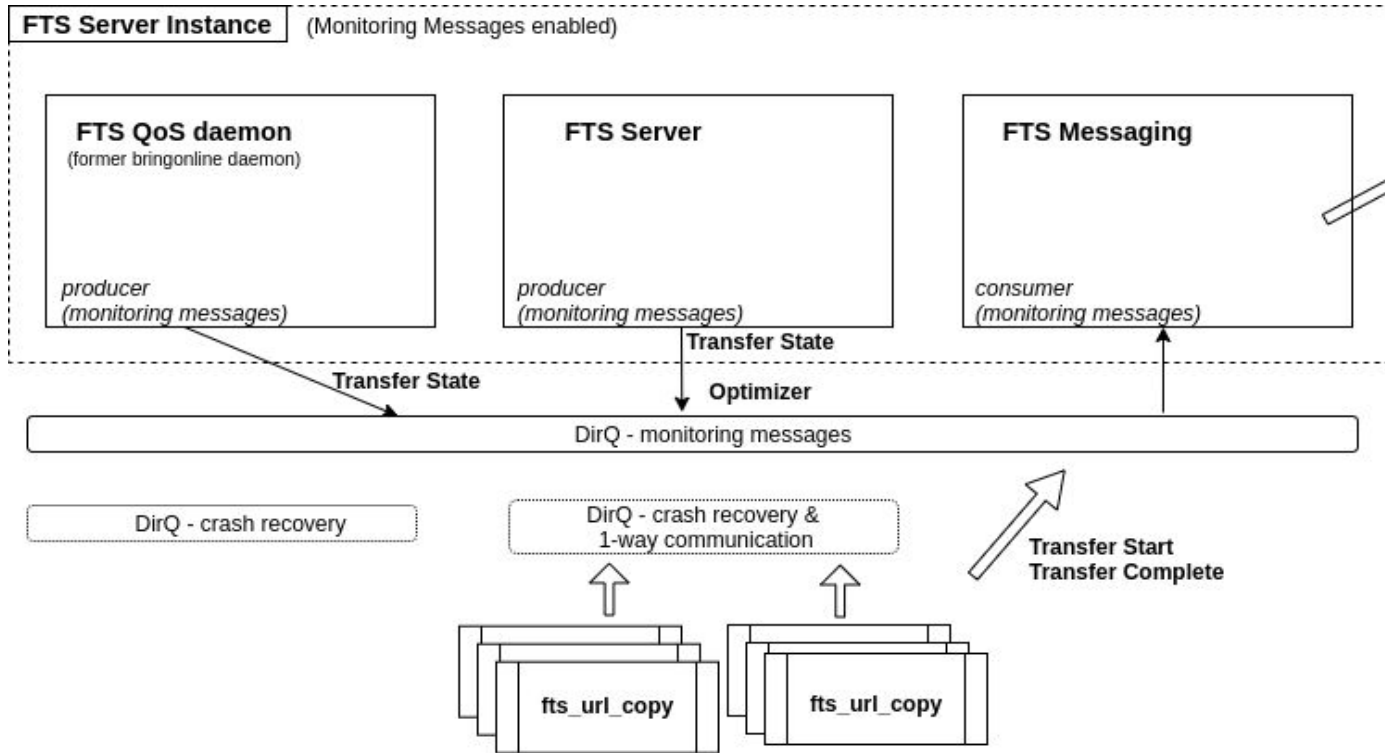
FTS Monitoring Overview

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for the FTS team

Server Instance (no monitoring message)



Server Instance (monitoring messages enabled)



Messages summary

- FTS uses directory queues for recovery & inter-process communication
- When monitoring messages are enabled:
 - A new queue is managed: *monitoring*
 - A dedicated component, handling this queue and sending to ActiveMQ
 - There are 4 types of messages sent in this queue
 - Transfer Start, Transfer Complete,
Transfer State, Optimizer

Types of FTS Messages

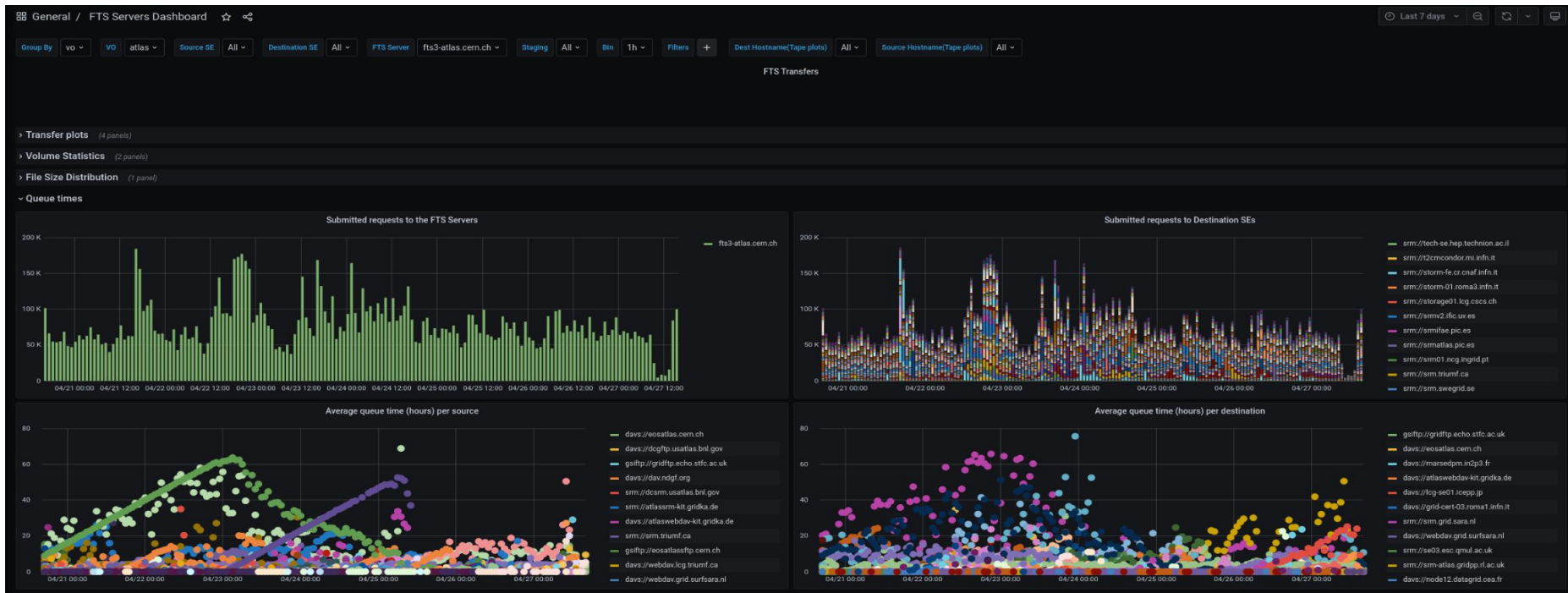
- **Transfer Start** → `transfer.fts_monitoring_start` (ActiveMQ topic)
 - Created only by the transfer agent at start of transfer
- **Transfer Complete** → `transfer.fts_monitoring_complete`
 - Created only by the transfer agent at end of transfer
- **Transfer State** → `transfer.fts_monitoring_state`
 - Created by QoS and Transfer daemons when a file state is changed ([Transfer State Machine](#))
- **Optimizer** → `transfer.fts_monitoring_queue_state`
 - Created by the Optimizer when adjusting parameters (# of actives, EMA, throughput)

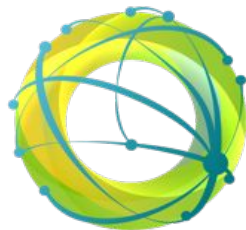
Complete format in [FTS Messaging documentation](#)

FTS internal dashboards



FTS internal dashboards





FTS

File Transfer Service

 cern.ch/fts

 fts-devel@cern.ch

 <https://gitlab.cern.ch/fts/fts3>

 <https://gitlab.cern.ch/dmc/gfal2>