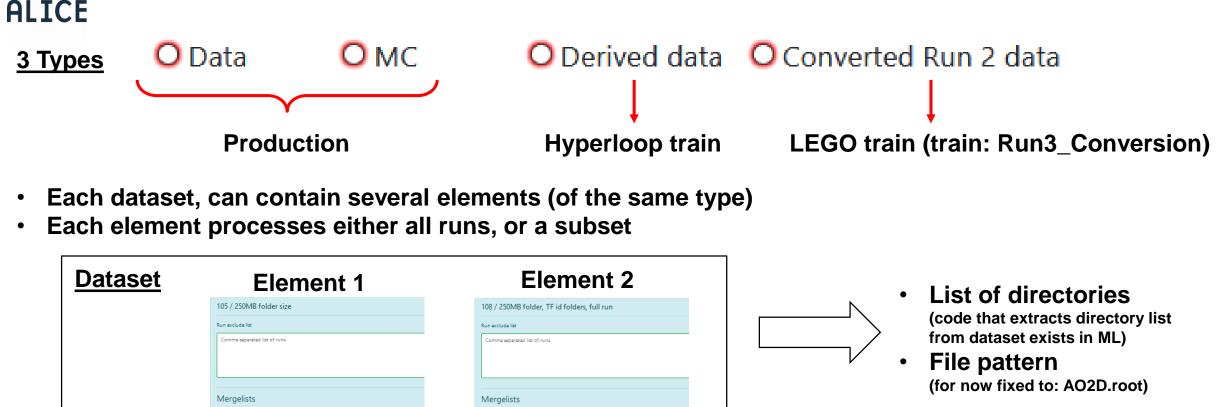


Hyperloop Datasets

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Hyperloop Datasets



mergelist

mergelist

eregelist 244917 Run .i ²⁴⁴⁹¹⁸ Li ²⁴⁴⁹¹⁸ .i ²⁴⁴⁹¹⁸ .i ²⁴⁴⁹¹⁸ .i ³⁴⁴⁹¹⁸ .i ³⁴⁴⁹¹⁸	Sea	arch S	Search 3	Search 3 records
	2058	123240	244918	/alice/data/2015/LHC15o/000244918/pass5_lowIR/PWGZZ/Run3_Conversion/108_20201117-1536_child_1/hy_1776
	2058	123233	244917	/alice/data/2015/LHC15o/000244917/pass5_lowIR/PWGZZ/Run3_Conversion/108_20201117-1536_child_1/hy_1775
	2058	123231	244975	/alice/data/2015/LHC15o/000244975/pass5_lowIR/PWGZZ/Run3_Conversion/105_20201021-0845_child_1/hy_1774

NB. The hyperloop database is change aware (we store the full history, and the timestamp of the last change)

mergelist3

mergelist3

Run lists

Output directory



Requirements

- Staging should be for entire Hyperloop datasets
- Staging status of a Hyperloop dataset needs to be available machine readable (we have to restrict submission to where the dataset is)
- Changes of Hyperloop datasets should be taken into account
 - Database contains already history and last change data of a dataset
 - Typical use case (Run 2 example): Dataset "LHC15o" always traces the last related production
- There can be overlaps between datasets (data should only be staged once)
 - Example:
 - LHC15o_test (few runs for pilot trains)
 - LHC15o_af (10% of the runs of the full production, each run is fully available)
 - LHC15o (all runs)



Example

- Yesterday: Dataset A : 1 2 3 | Pin (set by op.): Yes/No | Status: Ready/In Progress
- Today: Dataset A : 1 2 3 | Pin (set by op.): Yes/No | Status: Ready/In Progress
 - Train run 7, 8, 9
- Operator change dataset A → A': (add run 4) | Pin: Yes | Status: In Progress
- Tomorrow: Dataset A': 1 2 3 4
 - Train run 10, 11, 12



Some notes on staging tool

- Datasets retrieved from hyperloop database (current state)
- Each dataset
 - Can be pinned to AFs (one pin per AF)
 - Total size displayed
 - Status of staging (one status per AF)
- Available space displayed per AF
- Staging tool
 - Generates the necessary (copy, remove) operations to achieve the pinning status
 - Take into account that a directory can be pinned by several datasets
 - Processes them in the order of request
 - Updated the pinning status when transfers are done
- Display what a change of pin status will imply wrt available space