

# Database trends

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## Database Trends Analysis page

The Delft-FEWS master-controller database is designed to always contain the latest data. New records can be imported into the database frequently while the Rolling Barrel will remove older data regularly based on the expiry time. Some configurations may cause the database to contain more data than necessary. The Database Trends page aims to provide insight in the trends of the byte size / amount of records (rows) present in the master-controller database. The overviews over here do not show all tables, only tables with an **expiryTime** and a **localAvailableTime** are listed. The displayed information is generated on basis of the current contents of the database. Note that the displayed estimates in bytes are only summing up an estimate of the actual bytes of the records and not the overhead by the database or the indices on the database tables. The periods displayed are all in GMT. For instance, the record count **since midnight** only account for records since 0:00 GMT.

### Custom period filter

This filter fields can be used to set a period for which to analyse the number of records / bytes. The result of this filter is shown in the **custom period** column of each table. A calendar will popup when clicking on the start and end date.

The screenshot shows the 'Custom Period' filter at the top, with two date-time inputs: '23/01/2019 14:22:45' and '31/01/2019 14:22:54'. Below the filter is a table titled 'Number of rows (records) added to the database'. The table has columns for 'element', 'total', 'custom period', 'last year', and 'last 6 n'. A calendar popup is visible over the table, showing the month of January 2019 with the 31st selected. The table data is as follows:

element	total	custom period	last year	last 6 n
All (*)	1336184	1336184	1336184	1336184
DeletedRows	891793	891793	891793	891793
SystemActivities	269583	269583	269583	269583
LogEntries	113745	113745	113745	113745
Tasks	17804	17804	17804	17804

### Record count

This overview displays the amount of records (rows) with an expiry time stored in the listed tables of the master-controller database.

Number of rows (records) added to the database

element	total	custom period	last year	last 6 months	last 2 months	last month	last 2 Weeks	7 days ago	6 days ago	5 days ago	4 days ago	3 days ago	2 days ago	yesterday	since midnight
All (*)	1336184	1336184	1336184	1336184	161431	151708	148538	2729	2615	2652	2750	3174	1486	64604	57096
DeleteRows	891793	891793	891793	891793	9386	6798	5919	348	343	388	417	419	212	77	88
SystemActivities	269583	269583	269583	269583	36978	4944	4213	403	361	407	364	423	163	270	255
LogEntries	113745	113745	113745	113745	113745	113745	113745	0	0	0	0	0	0	60444	53301
Tasks	17804	17804	17804	17804	72	91	37	0	3	0	0	0	13	8	7
TimeSeries	12185	12185	12185	12185	12175	12175	11904	783	782	823	763	931	361	2846	2645
TaskRuns	7302	7302	7302	7302	4832	4783	4490	368	373	408	364	421	361	439	253
WorkflowFiles	5972	5972	5972	5972	0	0	0	0	0	0	0	0	0	0	0
ProcessedDeletedRows	5472	5472	5472	5472	3723	2390	1499	119	113	129	141	138	77	29	32
ArchiveMetaData	2099	2099	2099	2099	2099	2099	2099	229	200	233	211	247	88	159	155
TaskRunCompletions	2099	2099	2099	2099	2099	2099	2099	228	200	233	211	247	88	159	155
ModuleInstanceRuns	2081	2081	2081	2081	2081	2081	2081	224	198	231	209	245	88	157	154
ColdStates	848	848	848	848	0	0	0	0	0	0	0	0	0	0	0

## Byte estimate

This overview displays an estimate of the raw bytes of data with an expiry time stored in the listed tables of the master-controller database.

Estimates of bytes used up by rows (records)

element	total	custom period	last year	last 6 months	last 2 months	last month	last 2 Weeks	7 days ago	6 days ago	5 days ago	4 days ago	3 days ago	2 days ago	yesterday	since midnight
All (*)	2.8 GB	2.8 GB	2.8 GB	2.8 GB	1.8 GB	1.5 GB	1.4 GB	93 MB	93 MB	96 MB	94 MB	99 MB	43 MB	341 MB	319 MB
TimeSeries	1.4 GB	1.4 GB	1.4 GB	1.4 GB	1.4 GB	1.4 GB	1.4 GB	91 MB	91 MB	96 MB	92 MB	96 MB	42 MB	330 MB	307 MB
BaseBuildFiles	400 MB	400 MB	400 MB	400 MB	400 MB	66 MB	0 B	0 B	0 B	0 B	0 B	0 B	0 B	0 B	0 B
DeleteRows	279 MB	279 MB	279 MB	279 MB	219 MB	2.1 MB	1.9 MB	112 kB	110 kB	124 kB	134 kB	134 kB	68 kB	26 kB	28 kB
MapLayers	212 MB	212 MB	212 MB	212 MB	0 B	0 B	0 B	0 B	0 B	0 B	0 B	0 B	0 B	0 B	0 B
ModuleInstanceDatasets	166 MB	166 MB	166 MB	166 MB	0 B	0 B	0 B	0 B	0 B	0 B	0 B	0 B	0 B	0 B	0 B
RootConfigFiles	82 MB	82 MB	82 MB	82 MB	27 MB	13 MB	1.5 MB	0 B	0 B	0 B	0 B	0 B	0 B	0 B	0 B
LogEntries	17 MB	17 MB	17 MB	17 MB	17 MB	17 MB	17 MB	0 B	0 B	0 B	0 B	0 B	0 B	0.2 MB	8.1 MB
Tasks	16 MB	16 MB	16 MB	16 MB	66 kB	56 kB	35 kB	0 B	2.9 kB	0 B	0 B	0 B	12 kB	7.6 kB	6.6 kB
SystemActivities	16 MB	16 MB	16 MB	16 MB	2.4 MB	306 kB	280 kB	25 kB	24 kB	25 kB	24 kB	26 kB	10 kB	17 kB	16 kB
ArchiveMetaData	15 MB	15 MB	15 MB	15 MB	15 MB	15 MB	15 MB	1.8 MB	1.4 MB	1.6 MB	1.5 MB	1.7 MB	481 kB	1.1 MB	1.1 MB

## Expiring records

This overview displays the amount of records (rows) with an expiry time stored in the listed tables of the master-controller database that are due for removal by the rolling barrel.

Number of rows (records) expiring from the database

element	total	custom period	today	tomorrow	3rd day	4th day	5th day	6th day	7th day	within two weeks	within one month	within two months	within six months	within one year
All (*)	1336184	1318420	962	3668	3782	1486	61799	54825	1398	132488	136591	137451	1037215	1042232
DeleteRows	891793	861793	0	0	0	0	0	0	0	0	0	0	861793	861793
SystemActivities	269583	269583	130	307	312	279	287	285	265	2823	2830	2874	3395	4831
LogEntries	113745	113745	0	0	0	0	60444	53301	0	113745	113745	113745	113745	113745
Tasks	17804	40	0	3	0	4	0	0	0	8	9	9	38	40
TimeSeries	12185	12185	91	2995	2387	244	217	252	230	6887	10769	11478	11631	12185
TaskRuns	7302	7302	116	309	314	282	287	290	272	2827	2850	2710	4280	7298
WorkflowFiles	5972	5972	0	0	0	0	0	0	0	0	0	0	0	0
ProcessedDeletedRows	5472	5472	0	0	0	0	0	0	0	0	0	0	5472	5472
ArchiveMetaData	2099	2099	91	252	257	228	200	233	211	2099	2099	2099	2099	2099
TaskRunCompletions	2099	2099	91	252	257	228	200	233	211	2099	2099	2099	2099	2099
ModuleInstanceRuns	2081	2081	90	250	255	224	198	231	209	2081	2081	2081	2081	2081

## Expiring bytes

This overview displays an estimate of the raw bytes of data stored with an expiry time in the listed tables of the master-controller database that are due for removal by the rolling barrel.

