

How to rotate statistics packages?

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Statistics rotation is the process of archiving active packages for a respective day and managing the database space.

With data constantly being added to the system, number of active packages in the database grows and requires management. An efficient way to reduce the size of your database is to regularly archive older packages (for example, annual packages).

During rotation process, system dumps related day statistics and saves it as a file (archived package), removing the statistical records from the database. Archived packages can be accessed at any time by restoring them from the file to database.

All processes related to rotation and restoration of the statistics packages are managed by the **Statistics Manager** tool.

⚠ Attention

Moving or rotating the current day statistics package may result in errors! We strongly recommended not to do any operations on current day package.

Rotate Statistics Automatically

By default, VCS archives items automatically on a regular interval. You can customize most of default settings. To do so you need to:

- Go to the **Configuration > Settings** and find the **Auto-Rotation and Cleaning** information block.
- Specify the number of days in the **Statistics rotate delay** field (statistics, older than number of days specified, will be rotated).
- Click the **Update** button.

Screenshot: Settings section/Auto-Rotation and Cleaning sub-panel

| AUTO-ROTATION AND CLEANING | | |
|----------------------------------|-------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| Delete events from log after: | <input type="text" value="1"/> day(s) (from 1 to 90) | Delete events from Events Log after specified period of days. |
| Statistics archiving delay: | <input type="text" value="0"/> day(s) (0 - do not archive) | Archive statistics in advance. Each day minimize time needed for backup. |
| <u>Statistics rotate delay:</u> | <input type="text" value="100"/> day(s) (0 - do not rotate) | Rotate statistics to archive after specified number of days. |
| Delete not actual rates after: | <input type="text" value="360"/> day(s) (0 - do not delete) | Delete rates from the system when they are not relevant for a specified number of days from the end date. |
| Delete parsed XDR-files after: | <input type="text" value="180"/> day(s) (0 - do not delete) | After what number of days already parsed and processed XDR-files should be deleted from local server. |
| Delete archived log-files after: | <input type="text" value="90"/> day(s) (0 - do not delete) | After what number of days archived log-files should be deleted from local server. |


⚠ Attention

System manages the statistics packages in the background. **Statistics Manager** tool must be activated to manage the packages!

Rotate Statistics Manually

You can also manually archive active packages, in addition to Automatic Statistics Rotation by VCS. Manual archiving provides flexibility and allows you to specify which days must be archived.

To manually archive active packages, do the following:

1. Go to the **Statistics > Archive Management**.
2. Select the period and tick respective checkboxes in the **Rotate package**  column.
3. Click the **Process** button.

Screenshot: Archive Management section/Active statistics packages


| Archive Management | | | | | | | | | | | |
|----------------------------|---|------|------------|--------|-----------|----------|------------|----------------|----------|-------------------------------------|-------------------------------------|
| ACTIVE STATISTICS PACKAGES | | | | | | | | | | | |
| Date | | Type | Total xDRs | Volume | Paid xDRs | New xDRs | New Volume | Re-Rating xDRs | Progress | | |
| 2018, June (11) | ✓ | Time | 2 | 4 Min | | 2 | 0 | 0 Min | 0 | | |
| 2018, May (7) | ✓ | | | | | | | | 100.00% | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 31 May, 2018 | ✓ | | | | | | | | | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 30 May, 2018 | ✓ | | | | | | | | | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 23 May, 2018 | ✓ | | | | | | | | | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 22 May, 2018 | ✓ | | | | | | | | | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 19 May, 2018 | ✓ | | | | | | | | | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 18 May, 2018 | ✓ | | | | | | | | | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 17 May, 2018 | ✓ | Time | 2 | 4 min | | 2 | 0 | 0 min | 0 | 100.00% | <input checked="" type="checkbox"/> |

[Process](#)

After **Process** button is clicked, a respective statistics package will be rotated. The operation will be executed in the background. Then, you can find **Archived packages** in the archive. Also, it will be displayed in the **Archived statistics packages** information block.

Restore Statistics Packages

To recover statistics from archives to the database, do the following:

1. Go to the **Statistics > Archive Management**.
2. Select the period in the **Archived Statistics Packages** information block by enabling respective checkbox in the **Restore**  column.
3. Click the **Process** button.

Screenshot: Archive Management section

| ARCHIVED STATISTICS PACKAGES | | | |
|------------------------------|----------|---------|--------------------------|
| Date | Filename | Size | |
| 2018, April (14) | | 0.00 Mb | <input type="checkbox"/> |
| 2018, March (48) | | 0.14 Mb | <input type="checkbox"/> |
| 2018, February (33) | | 0.00 Mb | <input type="checkbox"/> |
| 2017, October (129) | | 0.00 Mb | <input type="checkbox"/> |
| 2017, September (204) | | 0.00 Mb | <input type="checkbox"/> |
| 2017, July (12) | | 0.40 Mb | <input type="checkbox"/> |
| 2017, May (537) | | 4.18 Mb | <input type="checkbox"/> |
| 2017, March (412) | | 4.20 Mb | <input type="checkbox"/> |
| 2016, November (42) | | 0.00 Mb | <input type="checkbox"/> |
| 2016, October (132) | | 0.00 Mb | <input type="checkbox"/> |
| 2016, September (108) | | 0.00 Mb | <input type="checkbox"/> |
| 2016, July (8) | | 0.00 Mb | <input type="checkbox"/> |
| 2016, June (28) | | 0.00 Mb | <input type="checkbox"/> |
| 2016, May (2) | | 0.00 Mb | <input type="checkbox"/> |
| 2011, December (4) | | 0.00 Mb | <input type="checkbox"/> |

You can download these files from the billing server:
/opt/jerasoft/vcs-data/archive

[Process](#)

Warning

Please note, while restoring old statistics packages, check specified number of days in the **Statistics rotate delay** field. The **Statistics rotate delay** parameter **must be greater than data of restoring package**. Otherwise, the system will archive a restored package again.