



EUCARIS

Statistics manual

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1. Introduction

EUCARIS supports the possibility to generate custom statistical reports, for services where statistical reporting is required. Currently there are 4 types of statistics processes:

- ERRU Statistics
- CBE Statistics
- VHInfo and DLInfo Statistics
- Prüm Statistics

This document describes the characteristics of these processes, the required software versions and the steps to configure, maintain and generate statistics.

1.1 Overall process description

The statistics collection process (except Prüm Statistics) is initiated using a specific asynchronous EUCARIS message (StatisticsRequest). This message is processed using the specific EUCARIS extension and results in an asynchronous response (StatisticsResponse) which will be uploaded to the local File Transfer Upload Queue.

The statistics collection process can be initiated by every member state which is authorised for the StatisticsRequest message, which will usually be the local member state and/or the EUCARIS Nominated Party of Operations (NPO, also known as EUCARIS Operations). The actual initiation of the process differs per service and on the agreements made for this treaty.

The statistics collection result message can be sent to every member state which is authorised for the StatisticsResponse message, which will usually be the local member state, the EUCARIS NPO and/or the European Commission (DG-MOVE).

The Prüm Statistics are generated by the NPO based on a process called LogCollection.

The chapters below explain in detail the current available statistics collection processes.

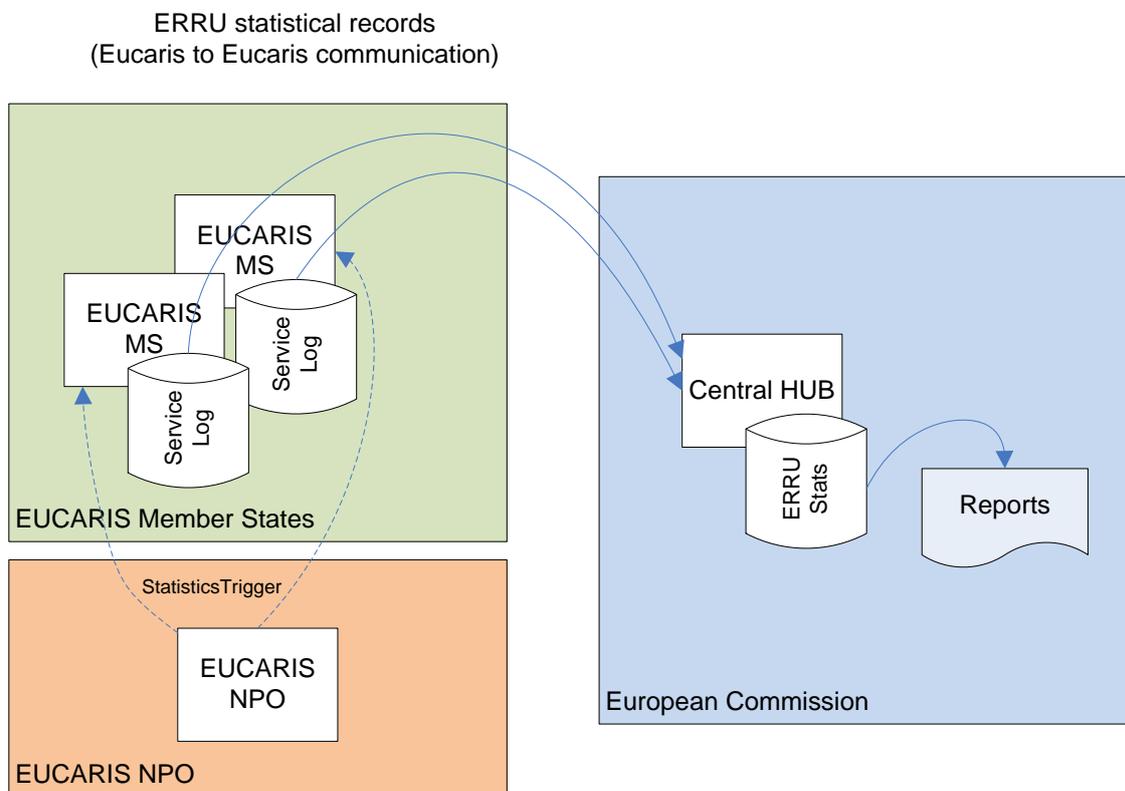
2. ERRU Statistics

2.1 Process description

The NPO is responsible for initiating the statistics collection process in the member states that use ERRU via EUCARIS. Statistics collection is initiated using the specific asynchronous EUCARIS message “ERRUStatisticsRequest”.

When an ERRUStatisticsRequest is received by a member state, the ERRU service extension will automatically gather ERRU messages from the local ServiceLog table and creates an ERRUStatistics response message containing the statistical counts. The ERRUStatistics response message will be sent directly to the Central HUB.

The European Commission merges the statistics messages of the EUCARIS countries and those of the Central HUB countries into one statistical report. This report will be published on a web site and will be available to ERRU registered users.



2.2 Installation

The following extensions (and versions) are required to generate ERRU statistics:

- EUCARIS v6.x Core: SU-U12 or higher
- ERRU: SU-E36 or higher

Use the EUCARIS Configuration Tool to download and install the most recent versions of the software.

3. CBE Statistics

3.1 Process description

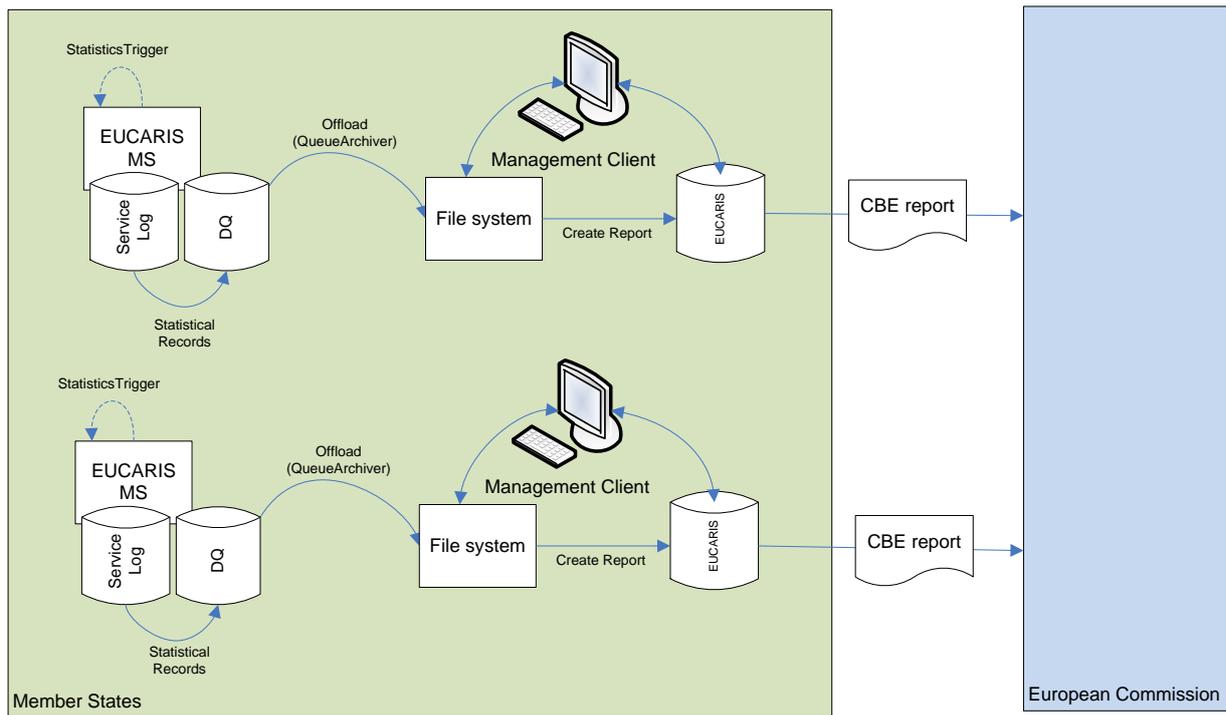
Article 6 of Directive 2011/82/EU states that each member state is responsible for creating its own CBE statistical report. A statistical report can be created by executing the following steps:

- Initiating the statistics collection process by sending a CBESTatisticsRequest message to the local EUCARIS (see 3.4)
- Offload the statistics data from the download queue to a file location (see 3.5)
- Generate the report(s) in the Management Client of EUCARIS (see 3.6)

According to Article 6 of Directive 2011/82/EU, a member state is required to create a report every two years for all outbound requests per MS per CaseCode.

With the Management Client of EUCARIS it is possible to create such a report ('Count of outbound requests per MS per CaseCode'). It is also possible to generate extra reports ('Count of outbound requests sCBE, mCBE', 'Count of inbound requests per MS per CaseCode', 'Count of inbound requests sCBE, mCBE') for any given period of time.

Statistics – Reports made by MS (CBE)



3.2 Installation

It is important to install the latest versions of the CBE Service Extension. Not all Service Extensions support the generic statistics functionality. The following extensions (and versions) support statistics:

- EUCARIS Core: SU-U12 or higher
- CBE: SU-E33 or higher

The EUCARIS Statistics tools (QueueArchiver and StatisticsTrigger) are also deployed as a System Update, and known with the following identifier:

- SU-ST2 or higher (please note that the statistic tools will be included in a future EUCARIS Core System Update).

Use the EUCARIS Configuration Tool to download and install the most recent versions of the software.

3.3 Configuration

After installation of the EUCARIS Statistics tools there are some small configuration actions required. Locate the following files, and open them for edit:

- [EUCARIS Tools root folder]\EUCARIS.Statistics\Eucaris.QueueArchiver.exe.config
- [EUCARIS Tools root folder]\EUCARIS.Statistics\Eucaris.StatisticsTrigger.exe.config

Search for the following string: “[port]”, and replace this with the port number of the EUCARIS Public Services of the local EUCARIS server.

3.4 Statistics trigger

The statistics are collected from the EUCARIS ServiceLog. The EUCARIS StatisticsTrigger sends a CBESTatisticsRequest message to the local EUCARIS System and request to start collecting statistics. When ready, these statistics are delivered in the download queue of the local EUCARIS server.

There are two scenarios for triggering:

1. Start the statistics collection for the first time, starting from a specific date
2. Start the statistics collection from the last successful collection date

3.4.1 Start the statistics collection for the first time

The statistics collection is made to be fail safe and has the ability to automatically restart failed collection scenarios. To initialise the first statistics collection it is therefore important to start with a start date in mind. A meaningful date would be the date of start of the exchange. In this document we use the start date 1-1-2014 as an example.

The collection of statistics is triggered by the Eucaris.StatisticsTrigger.exe which is located in the following folder: [EUCARIS Tools root folder]\EUCARIS.Statistics.

Start the initial statistics collection, by executing the following command:

```
Eucaris.StatisticsTrigger.exe xx xx Templates\CBEStatisticsRequestInittemplate.xml "2014-01-01"
```

Where “xx” is the local EUCARIS Country ID. For example using Germany as country code:

```
Eucaris.StatisticsTrigger.exe D D Templates\CBEStatisticsRequestInitTemplate.xml "2014-01-01"
```

After this step, statistics are collected of 1-1-2014. If there is no data available for this date, a statistics response with zero messages can be expected.

Results of the statistics collection can be found in the EUCARIS File Transfer Download Queue ([ServiceName]Statistics).

3.4.2 Start the statistics collection from the last successful collection date

The following procedure is for when the statistics collection is already initialised using the steps described in 3.1.

Start the statistics collection, by executing the following command:

```
Eucaris.StatisticsTrigger.exe xx xx Templates\CBEStatisticsRequestTemplate.xml
```

Where “xx” is the local EUCARIS Country ID. For example using Germany as country code:

```
Eucaris.StatisticsTrigger.exe D D Templates\CBEStatisticsRequestTemplate.xml
```

By not giving a date in the command line, the statistics process will now:

- automatically determine the next statistics date(s) to be processed
- process multiple statistics dates with a maximum of 4 days. Note: If only one date is available, 3 days prior to this date will also be collected. This behaviour is correct and is an initialisation for the fail safety and automatically restart functionality.

Results of the statistics collection can be found in the EUCARIS File Transfer Download Queue ([ServiceName]Statistics).

Because this statistics trigger will only process a maximum of 4 statistics dates, you may want to send multiple triggers a day until the statistics messages are up-to-date. If you decide to send multiple triggers per day, keep in mind that you should only send a new trigger when the last trigger has created the new statistics files in the download queue. You could create a command file in which you call several triggers with a pause between the triggers. For example using Germany as country code:

```
Eucaris.StatisticsTrigger.exe D D Templates\CBEStatisticsRequestTemplate.xml  
TIMEOUT /T 9000  
Eucaris.StatisticsTrigger.exe D D Templates\CBEStatisticsRequestTemplate.xml
```

When the historical statistics collection is completed, you can create a scheduled task in which you send just one trigger each day.

3.5 Offloading statistics files

Before a report can be generated, the created statistics collection messages should first be exported from the EUCARIS File Transfer Download Queue to your file system by using then EUCARIS Queue Archiver. Please make sure to export the data to a location where the service account running the EUCARIS Management Client is able to access.

The export of messages is supported by the Eucaris.QueueArchiver.exe which is located in the following folder: [EUCARIS Tools root folder]\EUCARIS.Statistics.

The EUCARIS Queue Archiver has a number of options. The most significant options are:

```
Eucaris.QueueArchiver.exe EXPORT -s CBEStatistics -c <country> -d "<filelocation>"  
-di -sd <startdate(YYYYMMDDhhmmss)> -ed <enddate(YYYYMMDDhhmmss)> -n
```

In the command lines mentioned above you should replace the following:

- <country> to EUCARIS Country code
- <filelocation> to a location on your file system where you want to store the statistics files (for example D:\EucStatData\). Please make sure to export the data to a location where the service account running the EUCARIS Management Client is able to access.
- <startdate(YYYYMMDDhhmmss)> to a date before the first CBESTatistics message was registered in the download queue
- <enddate(YYYYMMDDhhmmss)> to a date after the last CBESTatistics message was registered in the download queue

An export of CBE Statistics for country D over the first quarter of a year can be done by using the following command:

```
Eucaris.QueueArchiver.exe EXPORT -s CBESTatistics -c D -d "D:\EucStatData"  
-di -sd 20140101000000 -ed 20140331235959 -n
```

The EUCARIS Queue Archiver will set the file state in the Download Queue to retrieved, and will ignore these retrieved files in the future.

Important: Please make sure to enable the File Transfer Download Queue Purging for the specified (retrieved!) statistics responses in order to prevent flooding of the database.

3.6 Generate a report using the Management Client of EUCARIS

The EUCARIS Management Client supports the creation of reports, based on the exported statistics collection files. To be able to use this functionality, the management client needs to be configured. Locate and edit the following file:

[EUCARIS Root folder]\Configuration\Indes.Properties.config

And edit the following keys:

```
<add key="Indes.Core.Data.Statistics.UseFileSystem" value="true" />  
<add key="Indes.Core.Data.Statistics.FileSystemPath" value="D:\EucStatData\" />
```

When all statistic collections are exported to a file share, a report can be generated by the Management Client.

To generate reports, you will need to:

- navigate to the 'CBE Statistical Reports' of the Management Client
- Specify a start and an end date
- Press button 'Find statistics files'. You will now get to see an overview of the statistics files that are available. Please note that column 'completeness' shows whether all statistics files are available for the given period of time ('Complete' means that statistics data for every day is available, 'Incomplete' means that data is missing for 1 or more days, 'Unavailable' means that data is missing for all days)
- Select the reports you want to generate and press 'Create report'

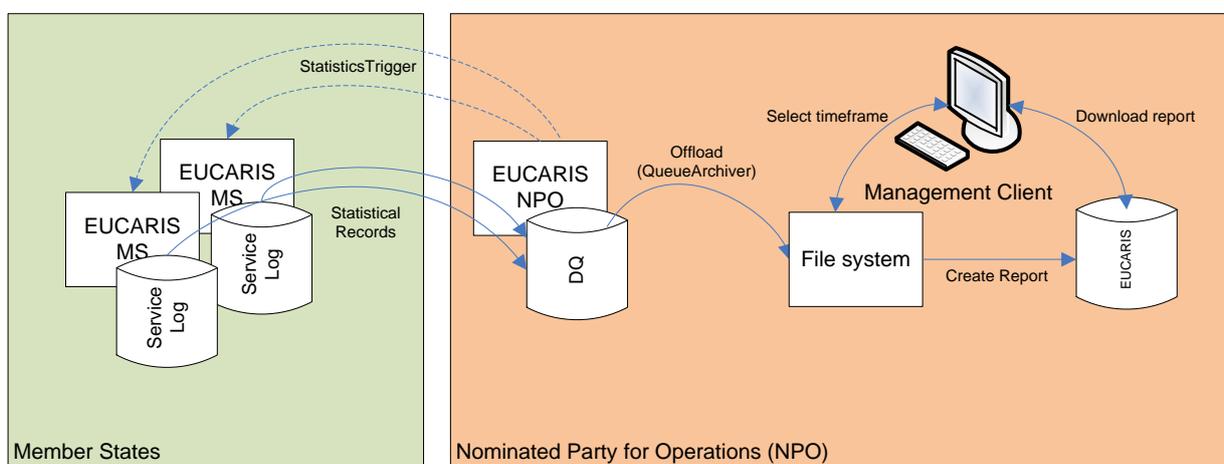
It might take a while before the reports are generated. If the reports are generated, they are visible in menu 'CBE Statistical Reports Downloads'. The reports (.csv files) can now be downloaded.

4. VInfo and DInfo Statistics

4.1 Process description

The VInfo and DInfo statistics process is initiated by the EUCARIS NPO. The NPO is responsible for sending DInfoStatisticsRequests messages and VInfoStatisticsRequest messages to all EUCARIS member states. When a statistics request message is received by a member state, the responsible service extension will automatically gather all relevant messages from the local ServiceLog table and create a response message containing statistical counts (DInfoStatistics/VInfoStatistics). This statistics response message will be sent to EUCARIS NPO. When the NPO has received the statistics response messages of all member states, it will offload the statistic data to a file system in order to generate a statistics report for all countries

Statistics – Reports made by NPO (VInfo, DInfo)



4.2 Installation

The following extensions (and versions) are required to generate VInfo and DInfo statistics:

- EUCARIS v6.x Core: SU-U12 or higher
- VInfo: SU-E29 or higher
- DInfo: SU-E40 or higher

Use the EUCARIS Configuration Tool to download and install the most recent versions of the software.

5. Prüm Statistics

5.1 Process description

The process for Prüm statistics differs from that of the other statistics. This has mainly historical reasons and will change in the future. The log collection process for Prüm is triggered from a windows scheduled task on (one of) the EUCARIS server(s) in the member state. There is a daily log collection step that counts the number of Prüm requests and responses that passed the EUCARIS server on the previous day and sends the result as daily files to the NPO. Second there is a monthly step that generates a report based on the daily files of the previous month. Before generating the report this step will check if all daily files are available and tries to generate missing day files.

Both daily and monthly steps are implemented as a task in the EUCARIS TaskScheduler.

5.2 Installation

The following extensions (and versions) are required to generate Prüm statistics:

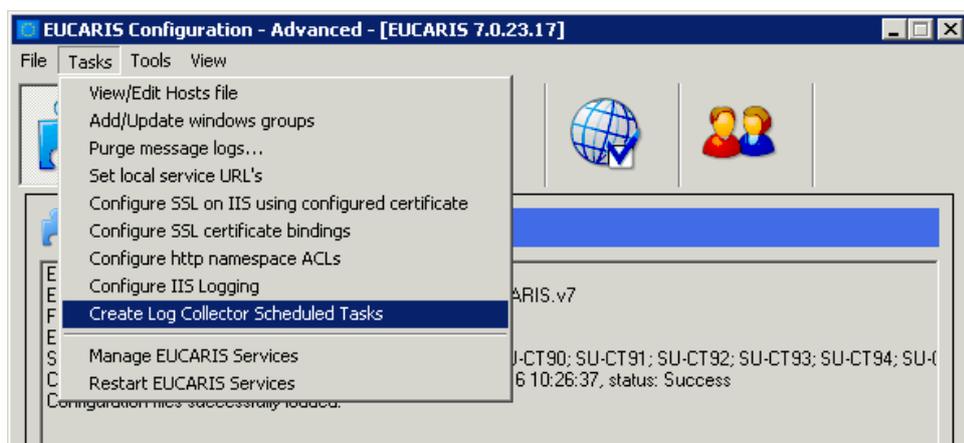
- EUCARIS v7.x Core: SU-U23 or higher
- Prüm: SU-E95 or higher

Use the EUCARIS Configuration Tool to download and install the most recent versions of the software.

By default the statistics output is stored in the folder c:\ProgramData\EUCARIS. You can change this by editing the file “Eucaris.Services.Plugin.Prum.config” and change the parameter “LogCollectorWriteDirectory”

5.3 Using

The EUCARIS Configuration Tool version 7.0.96.x (SU-CT96) higher is able to create the required scheduled tasks for the Log Collector process. Start the EUCARIS Configuration Tool in advanced mode and select Menu > Task > Create Log Collector Scheduled Tasks:



Please note that you will be required to enter the password for the EUCARIS Service account.

The Prüm log collection tasks can be started from a windows command line prompt. To manually run the EUCARIS Task Scheduler, execute the following commands. The default (working folder) for the EUCARIS Task Scheduler is:

```
[EUCARIS application root folder]\LocalProcesses\TaskScheduler
```

To generate Prüm statistics for the past day run:

```
Eucaris.Core.Services.Scheduler.exe --task LogCollectorDaily
```

To generate Prüm statistics for a specific day (yyyymmdd) run:

```
Eucaris.Core.Services.Scheduler.exe --task LogCollectorDaily --taskParam 20170220
```

To generate a Prüm statistics report for the past month run:

```
Eucaris.Core.Services.Scheduler.exe --task LogCollectorMonthly
```

To generate a Prüm statistics report for a specific month (yyyymm) run:

```
Eucaris.Core.Services.Scheduler.exe --task LogCollectorMonthly --taskParam 201702
```