

## System Services

### In this article

- Utility Description
- Utility Management

The **System Services** section represents a list of all **system utilities** (see screenshot below) and is aimed at providing a possibility to manage and **configure** them as a **user** desires. List of system utilities has the following structure:

*Screenshot: System Services section*

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🔧 System Services

Status	Name	Schedule	Allowed Nodes	Run Groups	Last Run	In Queue	
<b>Daemon Services</b>							
🟢	Calculator	—	Master Calculation	stats_processing	09:15:44 ago	—	
🟢	Import Manager	—	Master	—	09:15:43 ago	—	
🟢	Quotas Updater	—	Master	—	09:15:41 ago	—	
🟢	RADIUS Server	—	Master Redundancy Reporting Processing	—	09:15:47 ago	—	
🟢	Rates Generator	—	Master	—	09:15:40 ago	—	
🟢	SIP Redirect Server	—	Master Redundancy Reporting Processing	—	09:15:46 ago	—	
<b>Fixed Time Services</b>							
🟢	Backup Manager	⌚ 05:30	Master	factors stats_processing	5d 07:03:12 ago	00:00:09	🔴
🟢	Balances Manager	⌚ 03:20	Master	—	09:13:04 ago	—	▶
🟢	Cleaner	⌚ 01:20	Master Redundancy Reporting Processing	—	11:13:05 ago	—	▶
🟢	Jurisdiction Manager	⌚ 00:20	Master	—	12:13:01 ago	—	▶
🟢	Log Rotator	⌚ 01:10	Master Redundancy Reporting Processing	—	11:23:03 ago	—	▶
<b>Periodical Services</b>							
🟢	AAA manager	🕒 1 min	Master	—	00:00:06 ago	—	▶
🟢	Cache Manager	🕒 6 min	Master Redundancy Reporting Processing	—	00:02:06 ago	—	▶
🟢	Calling Cards Manager	🕒 60 min	Master	—	00:28:05 ago	—	▶
🟢	Dynamic Routing Manager	🕒 60 min	Master Processing	—	00:30:05 ago	—	▶
🟢	Email Rates Manager	🕒 5 min	Master	—	00:02:02 ago	—	▶
🟢	Events Manager	🕒 5 min	Master	—	00:00:04 ago	—	▶
🟢	Factors Watcher	🕒 5 min	Master	factors	00:02:00 ago	—	▶
🟢	Files Collector	🕒 10 min	Master	stats_processing	4d 21:35:07 ago	00:00:10	🔴
🟢	Files Downloader	🕒 5 min	Master	—	00:02:00 ago	—	▶
🟢	Invoicing Manager	🕒 60 min	Master	—	00:13:01 ago	—	▶
🟢	Mail Manager	🕒 5 min	Master	—	00:04:04 ago	—	▶
🟢	Notifier	🕒 60 min	Master	—	00:28:00 ago	—	▶
🟢	Orig-Term Report Generator	🕒 16 min	Master	—	00:08:02 ago	—	▶
🟢	Packages Manager	🕒 10 min	Master	—	00:09:03 ago	—	▶
🟢	Provisioning Manager	🕒 5 min	Master	—	00:03:04 ago	—	▶
🟢	Rates Notificator	🕒 5 min	Master	—	00:01:03 ago	—	▶
🟢	Reports To Email	🕒 6 min	Master	—	00:00:03 ago	—	▶
🟢	Rerating	🕒 1 min	Master	—	00:00:01 ago	—	▶
🟢	Statistics Manager	🕒 60 min	Master	stats_processing	4d 21:38:06 ago	—	▶
🟢	Statistics Manager / Meta Info	🕒 5 min	Master	—	00:03:03 ago	—	▶
🟢	Summary	🕒 1 min	Master	—	00:00:01 ago	—	▶
🟢	Swap Deals Manager	🕒 60 min	Master	—	00:20:59 ago	—	▶
🟢	Traffic Rules Manager	🕒 6 min	Master Processing Calculation	—	00:04:01 ago	—	▶

About

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Column Name	Description
Status	<p><b>Status</b> of the utility. Depending on the icon, the status can be either  <b>enabled</b> or  <b>disabled</b>.</p> <p>To change a utility status, click on the utility name in the table.</p>
Name	<p><b>Name</b> of the utility. The full list of system utilities with their descriptions is provided in a table below</p>
Schedule	<p><b>Periodicity</b> at which each utility is run. <b>Daemon</b> services don't have a schedule, <b>Periodic</b> are run in a defined period, <b>Fixed Time</b> - at predefined timeslots.</p> <p>By clicking the <b>Run utility</b>  icon, you <b>manually</b> start this utility regardless of its <b>Schedule</b> column value (doesn't work for <b>Daemon Services</b>).</p>
Allowed Nodes	<p><b>Nodes</b>, at which the service is allowed to run. This parameter is configured only during deployment and is not allowed to be changed by the user</p>

<b>Run Groups</b>	<b>Run Groups</b> define, which services may not run in parallel with others. If two services have intersecting groups, the system will not run them simultaneously and will put one of the services in queue
<b>Last Run</b>	<b>Time</b> and <b>date</b> when the <b>last run</b> was initiated
<b>In Queue</b>	If the utility is run manually, <b>time</b> and <b>date</b> when its launch was initiated will be specified in the column

## Utility Description

Group Name	Utility Name	Description
<b>Daemon Services</b>	These utilities do not have a schedule and are automatically run by the system when active	
	<b>RADIUS Server</b>	RADIUS server process
	<b>SIP Redirect Server</b>	SIP Redirect server process
	<b>Import Manager</b>	Manages rates import process
	<b>Rates Generator</b>	Utility that generates rates, both manually and automatically
	<b>Calculator</b>	Utility that processes all data collected from xDR-files
	<b>Quotas Updater</b>	Utility that performs balances synchronization
<b>Periodical Services</b>	These utilities are run with a defined period in minutes. The period can be up to 60 minutes	
	<b>Cache Manager</b>	Cache Manager process whose main function is to monitor and include client-related changes for RADIUS and SIP Redirect continuously
	<b>AAA Manager</b>	Utility that deletes old AAA sessions and routing results
	<b>Calling Card Manager</b>	<i>Calling Cards</i> manager process
	<b>Dynamic Routing Manager</b>	Utility that creates routing tables used in Dynamic Routing feature
	<b>Email Rates Manager</b>	Utility that imports rate tables updates from emails
	<b>Events Manager</b>	Process that sends events to emails according to <i>Events Config</i>
	<b>Provisioning Manager</b>	Utility that processes events asynchronously
	<b>Factors Watcher</b>	Utility that controls the <i>Factors Watcher</i> tool
	<b>Files Collector</b>	Utility that controls file collectors
	<b>Files Downloader</b>	Utility that automatically downloads xDR-files from switch host
	<b>Invoicing Manager</b>	Utility that manages the autoinvoicing feature
	<b>Mail Manager</b>	Sends emails from mail queue (invoices, notifications, etc.)

	<b>Statistics meta info manager</b>	Gathers meta-information about collected statistics
	<b>Notifier</b>	Notifies in case of a low balance or HDD space events
	<b>Packages Manager</b>	Utility that manages your packages
	<b>Rates Notifier</b>	Utility that notifies clients about rate changes
	<b>Orig-Term Report Generator</b>	Utility that manages data generation for Orig-Term Report
	<b>Reports to Email</b>	Utility that sends generated statistic reports by the scheduled time <div> <i>i</i> Reports that will be sent by <b>Reports to Email</b> , will be sent using SMTP credentials, specified in the <b>Reseller</b>, to which owner of a <b>Reports Query</b> belongs. For Users without Reseller restrictions (super-admins), default system SMTP credentials will be used. </div>
	<b>Rerating Manager</b>	Utility that processes rerating
	<b>Statistics Manager</b>	Utility that manages statistics packages
	<b>Summary</b>	Utility that aggregates <i>Summary Report</i>
	<b>Swap Deals Manager</b>	Caches statistics for Swap Deals module, analysis and notifications
	<b>Traffic Rules Manager</b>	Utility that manages all traffic rules in the system
<b>Fixed Time Services</b>		These utilities are run at predefined timeslots
	<b>Backup Manager</b>	Utility that manages system backup processes
	<b>Balances Manager</b>	Creates automatic charges
	<b>Cleaner</b>	Utility that automatically cleans old messages from the <i>Events Log</i> section
	<b>Jurisdiction Manager</b>	Generates jurisdiction table from LERG/TMP data sources for US routing
	<b>Log Rotator</b>	Utility that controls log-files


#### Attention

Please note that if a customer had no assigned **packages**, **accounts**, **presets** or **translations**, and you decided to add one, then RADIUS or SIP Redirect servers will notice those changes only after *Cache Manager* runs and does its job. Please note, that this is only applicable if a customer previously had absolutely no items listed above, in other words, if you add a second account to a customer, then that change will be effective instantly.

## Utility Management

You can always configure the run time of any periodical or fixed time utility by clicking a respective name. A pop-up window for utility management has the following structure (see screenshots below):

*Screenshot: Periodical service editing*


System Services

Cache Manager

Name: Cache Manager

Status: Enabled

Schedule: Periodical

Period: 6 min align to: 3 min


OK

Cancel

Apply

Field	Description
<b>Name</b>	Name of the utility
<b>Status</b>	Status of the utility: <ul style="list-style-type: none"> <li>• <b>Enabled</b></li> <li>• <b>Disabled</b></li> </ul>
<b>Schedule</b>	Set <b>Periodical</b> to define periodicity further
<b>Period</b>	Define run <b>period</b> for the utility. It can not be more than 60 minutes. If you want to use a longer period - use fixed time instead
<b>align to</b>	Align time is used to distribute services running in the same periods. For example, if a <b>period</b> is set to 5 min and <b>align to</b> is 2, service will be run at XX:02, XX:07, XX:12 and so on

Screenshot: Fixed time service editing


System Services

Backup Manager

Name: Backup Manager

Status: Enabled

Schedule: Fixed Time

Run at: 05:30 ×

OK

Cancel

Apply

Field	Description
<b>Name</b>	Name of the utility
<b>Status</b>	Status of the utility: <ul style="list-style-type: none"> <li>• <b>Enabled</b></li> <li>• <b>Disabled</b></li> </ul>
<b>Schedule</b>	Set <b>Fixed Time</b> to define a specific run timeslot further
<b>Run at</b>	Set the time to run a utility. You can define multiple times here. The time should be given in system timezone