

System Services

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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	
Daemon Services							
<div></div>	Calculator	—	Master Calculation Calculation via Hub	stats_processing	11:25:54 ago	—	
<div></div>	Import Manager	—	Master	—	11:25:50 ago	—	
<div></div>	Quotas Updater	—	Master	—	11:25:46 ago	—	
<div></div>	RADIUS Server	—	Master Redundancy Reporting Routing Routing via Hub	—	11:26:05 ago	—	
<div></div>	Rates Generator	—	Master	—	11:25:44 ago	—	
<div></div>	SIP Redirect Server	—	Master Redundancy Reporting Routing Routing via Hub	—	11:25:59 ago	—	
Fixed Time Services							
<div></div>	Backup Manager	⌚ 05:30	Master	stats_processing	21d 03:51:43 ago	00:00:00	<div></div>
<div></div>	Balances Manager	⌚ 03:20	Master	—	11:22:54 ago	—	<div></div>
<div></div>	Cleaner	⌚ 01:20	Master Redundancy Reporting Routing Calculation Hub Routing via Hub Calculation via Hub	—	13:22:53 ago	—	<div></div>
<div></div>	Jurisdiction Manager	⌚ 00:20	Master	—	14:22:49 ago	—	<div></div>
<div></div>	Log Rotator	⌚ 01:10	Master Redundancy Reporting Routing Calculation Hub Routing via Hub Calculation via Hub	—	13:32:52 ago	—	<div></div>
Periodical Services							
<div></div>	AAA manager	⌚ 1 min	Master	—	00:00:56 ago	—	<div></div>
<div></div>	Cache Manager	⌚ 6 min	Master Redundancy Reporting Routing Calculation Hub Routing via Hub Calculation via Hub	—	00:05:54 ago	—	<div></div>
<div></div>	Dynamic Routing Manager	⌚ 60 min	Master Routing Hub	—	00:39:53 ago	—	<div></div>
<div></div>	Email Rates Manager	⌚ 5 min	Master	—	00:01:51 ago	—	<div></div>
<div></div>	Events Manager	⌚ 5 min	Master	—	00:04:53 ago	—	<div></div>
<div></div>	Files Collector	⌚ 10 min	Master	stats_processing	11:25:43 ago	00:00:01	<div></div>
<div></div>	Files Downloader	⌚ 5 min	Master	—	00:01:52 ago	—	<div></div>
<div></div>	Invoicing Manager	⌚ 60 min	Master	—	00:22:48 ago	—	<div></div>
<div></div>	Low Balance Monitoring	⌚ 60 min	Master	—	00:37:50 ago	—	<div></div>
<div></div>	Mail Manager	⌚ 5 min	Master	—	00:03:53 ago	—	<div></div>
<div></div>	Orig-Term Report Generator	⌚ 16 min	Master	—	00:09:52 ago	—	<div></div>
<div></div>	Packages Manager	⌚ 10 min	Master	—	00:08:50 ago	—	<div></div>
<div></div>	Provisioning Manager	⌚ 5 min	Master	—	00:02:53 ago	—	<div></div>
<div></div>	Rates Notificator	⌚ 5 min	Master	—	00:00:51 ago	—	<div></div>
<div></div>	Reports Monitoring	⌚ 5 min	Master	—	00:02:48 ago	—	<div></div>
<div></div>	Reports To Email	⌚ 6 min	Master	—	00:03:51 ago	—	<div></div>
<div></div>	Rerating	⌚ 1 min	Master	—	00:00:50 ago	—	<div></div>
<div></div>	Statistics Manager	⌚ 60 min	Master	stats_processing	11:25:40 ago	00:00:02	<div></div>
<div></div>	Statistics Manager / Meta Info	⌚ 5 min	Master	meta_info_manager	00:02:51 ago	—	<div></div>
<div></div>	Summary	⌚ 1 min	Master	—	00:00:50 ago	—	<div></div>
<div></div>	Swap Deals Manager	⌚ 60 min	Master	—	00:30:48 ago	—	<div></div>
<div></div>	Traffic Rules Manager	⌚ 6 min	Master Routing Calculation Hub	—	00:01:48 ago	—	<div></div>

About

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Column Name	Description
Status	Status of the utility. Depending on the icon, the status can be either  enabled or  disabled . To change a utility status, click on the utility name in the table.
Name	Name of the utility. The full list of system utilities with their descriptions is provided in a table below
Schedule	Periodicity at which each utility is run. Daemon services don't have a schedule, Periodic are run in a defined period, Fixed Time - at predefined timeslots. By clicking the Run utility  icon, you manually start this utility regardless of its Schedule column value (doesn't work for Daemon Services).

Allowed Nodes	Nodes , 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
Run Groups	Run Groups 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
Last Run	Time and date when the last run was initiated
In Queue	If the utility is run manually, time and date when its launch was initiated will be specified in the column

Utility Description

Group Name	Utility Name	Description
Daemon Services	These utilities do not have a schedule and are automatically run by the system when active	
	AC Manager	Fetches Active Calls for Gateways
	Calculator	Utility that processes all data collected from xDR-files
	Import Manager	Manages rates import process
	Quotas Updater	Utility that performs balances synchronization
	RADIUS Server	RADIUS server process
	Rates Generator	Utility that generates rates, both manually and automatically
	SIP Redirect Server	SIP Redirect server process
Periodic Services	These utilities are run every defined period of minutes. The period can be up to 60 minutes.	
	AAA Manager	Utility that deletes old AAA sessions and routing results
	Cache Manager	Cache Manager process whose main function is to monitor and include client-related changes for RADIUS and SIP Redirect continuously
	Dynamic Routing Manager	Utility that creates routing tables used in the Dynamic Routing feature
	Email Rates Manager	Utility that imports rate tables updates from emails
	Events Manager	A process that sends events to emails according to <i>Events Config</i>
	Files Collector	Utility that controls file collectors
	Files Downloader	Utility that automatically downloads xDR-files from the switch host
	Invoicing Manager	Utility that manages the autoinvoicing feature
	Low Balance Monitoring	Utility that controls the <i>Low Balance Monitoring</i> rules and notifies specified Users
	Mail Manager	Sends emails from the mail queue (invoices, notifications, etc.)
	Orig-Term Report Generator	Utility that manages data generation for Orig-Term Report

	Packages Manager	Utility that manages your packages
	Provisioning Manager	Utility that processes events asynchronously
	Rates Notificator	Utility that notifies clients about rate changes
	Reports Monitoring	Utility that monitors Reports for pre-configured parameters and triggers alerts/actions
	Reports to Email	Utility that sends generated statistic reports by the scheduled time <div>  Reports that will be sent by Reports to Email, will be sent using SMTP credentials specified in the Reseller, to which the owner of a Reports Query belongs. For Users without Reseller restrictions (super-admins), default system SMTP credentials will be used. </div>
	Rerating Manager	Utility that processes rerating
	Statistics Manager	Utility that manages statistics packages
	Statistics Manager / Meta Info	Gathers meta-information about collected statistics
	Summary	Utility that aggregates <i>Summary Report</i>
	Swap Deals Manager	Caches statistics for Swap Deals module, analysis and notifications
	Traffic Rules Manager	Utility that manages all traffic rules in the system
Fixed Time Services	These utilities are run at predefined timeslots	
	Backup Manager	Utility that manages system backup processes
	Balances Manager	Creates automatic charges
	Cleaner	Utility that automatically cleans old messages from the <i>Events Log</i> section
	Jurisdiction Manager	Generates jurisdiction table from LERG/TMP data sources for US routing
	Log Rotator	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
Name	Name of the utility
Status	Status of the utility: <ul style="list-style-type: none"> • Enabled • Disabled
Schedule	Set Periodical to define periodicity further
Period	Define run period for the utility. It can not be more than 60 minutes. If you want to use a longer period - use fixed time instead
align to	Align time is used to distribute services running in the same periods. For example, if a period is set to 5 min and align to 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
Name	Name of the utility
Status	Status of the utility: <ul style="list-style-type: none"> • Enabled • Disabled
Schedule	Set Fixed Time to define a specific run timeslot further
Run at	Set the time to run a utility. You can define multiple times here. The time should be given in system timezone