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Genesys Pulse Help

Statistic Properties

Statistic Properties

When you select a statistic within the [template wizard](#), Genesys Pulse displays the values of the statistic properties. These statistic properties are described below.

Tip

You can modify a statistic definition while defining a template. See [Report templates and statistics details](#).

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Alias

The Alias must be a unique name that represents the technical name of the statistic. Use an ASCII letter for the first character.

Display Alias

The Display Alias is the name displayed on the report.

Description

The Description provides the functional meaning of the statistic.

Display Format

The Display Format specifies whether values are shown as time or numbers, and, if numbers, the number of decimal places. Depending on the statistic you chose, the available formats in the drop-down list are time-based or numerical.

List of Values: Time, Integer, Number, Percent, String, Status

Starting with release 9.0.0, new **Status** display format is available for statistic with Statistic Type = ExtendedCurrentStatus. The **Status** display format allows to select the current agent status properties that you want to display:

- Show Status
- Show Icon
- Add Duration
- Add Media
- Show 'Do Not Disturb' when applicable

Agent Status Display Options

Starting with release 9.0.001, the Advanced Display Options Editor is available for the Status display format. It allows to fully replace the standard representation with a user-designed representation based on the [JavaScript string literals syntax](#).

The following variables can be used to construct the status to display:

- `${status}`—status name
- `${media}`—media name
- `${duration}`—duration of the current status in the time format (hh:mm:ss)
- `${dnd}`—duration of the "Do Not Disturb" status in the time format (hh:mm:ss). The Show "Do Not Disturb" When Applicable checkbox must be selected to display the Do Not Disturb status and duration even if the `${dnd}` variable is defined in the custom format via the Editor.

When the `${media}` or `${dnd}` value is unavailable, it is displayed as Undefined. To avoid this, you can specify conditions and use ternary operators.

Examples:

Display Format	Displayed data example
<code>\${media && !dnd ? media + " ": ""}\${status}\${duration}</code> (standard format representation when all Status properties are checked)	voice WaitForNextCall(00:23:12) or LoggedOut(01:20:15) or DoNotDisturb(00:03:10)
<code>\${duration + " in " + status}\${media ? "(" + media+ ")" : ""}</code>	00:23:12 in WaitForNextCall(voice) or 01:02:00 in LoggedOut

Tip

When choosing what agents to include in reports:

- Use **By Individual** object selection and choose an entire folder when you want reports to show only the agents you specify during widget creation. The list of agents in the report is not automatically updated when new agents are added to the folder.
- Use **By Group object** selection and select an Agent Group when you want the reports to show all agents in the group -- even agents that are added later.

Filter Out LoggedOut Agents

The screenshot displays the configuration interface for the 'Current Status' widget. On the left, a sidebar lists various statistics available for selection. The main configuration panel on the right allows for detailed setup of the selected statistic. Key settings include the display name, description, alias, and format. The 'Filter Out LoggedOut Agents' checkbox is highlighted with a curved arrow, indicating its importance in the context of the article. Other options like 'Show Agent State Icon', 'Notification Mode', 'Statistic Type', and 'Additional Data' are also visible.

You can filter agents in the LoggedOut status from your reports within a report template. The Filter Out LoggedOut Agents option works in conjunction with the Current Status statistics, which are based on the ExtendedCurrentStatus stat type. Once enabled, the Filter Out LoggedOut Agents option is applied to all statistics in the template.

Filters

The screenshot shows the GAX Configuration page. The top navigation bar includes GAX, Dashboard, Agents, Configuration (highlighted), Routing Parameters, and A. Below the navigation bar is a breadcrumb trail: Home > Applications > Applications > Stat_Server Properties. On the left is a sidebar menu with options: General, Connections, Ports, Tenants, Options (highlighted), Permissions, Dependencies, and Application Options. The main content area is titled 'Application Options' and contains a table with a checkbox column and a 'Key' column. The table lists several options, with 'Filters' expanded to show a list of Bronze-related filters.

	Key
<input type="checkbox"/>	▼ Filters
<input type="checkbox"/>	Bronze
<input type="checkbox"/>	Bronze_Call
<input type="checkbox"/>	Bronze_Chat
<input type="checkbox"/>	Bronze_Email
<input type="checkbox"/>	Bronze_fax
<input type="checkbox"/>	Bronze_sms
<input type="checkbox"/>	Bronze_webcallback

The Filters represent statistical filters that define restrictive conditions on actions used while calculating the statistic. See the "Statistical Categories" chapter in the [Stat Server User Guide](#) to learn how to define filtered statistics.

The list of Filters is available in the Configuration section of GAX. This view is available in Stat Server application options used by Genesys Pulse.

Your account must have privileges to access this section.

Within GAX, you can add, edit or delete a filter.

Filters Example Suppose that you want to filter calls based on language: If the enterprise set up the key Language to identify language and the value Spanish for callers who speak Spanish, you could use the PairExists UserData function to search for calls with attached data in the Language/Spanish key-value pair.

On the Options tab of the Stat Server Properties screen, you could add a SpanishLanguage option in

the [Filters] section and specify filtering for calls with attached data containing the key "Language" and the value "Spanish".

The example would have SpanishLanguage in the Name field and PairExists("Language","Spanish") in the Value field.

Now, when an agent attaches the "Spanish/Language" key-value pair to calls from a desktop application, the calls are filtered out of statistical calculations.

Formula

Statistics * Add

Hit Ratio		
Estimated Time		
Records Completed		
Dialed Abandoned		
Dialed Answering Ma...		
Answers		
Attempt Busies		
Attempts Cancelled		
Attempts made		
DoNotCall Results		
Dropped Results		
Fax Modem Results		
No Answer Result		

Display Name * ✓

Answers

Description

The total number of dialing attempts initiated by a Campaign Manager with a call result of Answer (when a call is answered by a human voice). In some contact centers, the call result can also mean Right

Alias * **Display Format ***

Campaign_Answers Integer

☒ **Formula**

☐ Hide Statistic ☐ Show Agent State Icon

Save

From the statistic detail pane, you can create or customize statistics by creating a **formula**.

The formula uses a javascript-based syntax, which lets you calculate expressions with values given by other statistic and use functions provided by Genesys for more specific calculations. For example, you can calculate the ratio of the calls abandoned to the calls offered in your queue to measure the percentage of abandoned calls in your queue.

Genesys Pulse assumes the offered calls are defined by a statistic alias Offered and the abandoned calls are defined by a statistic alias Abandoned.

The formula must return a Result value to be valid and can access any statistics of the template with

the following syntax: `Data.<Statistic-Alias>.Value`

All formulas must contain an assignment for the `Result` variable (for example, `Result=`). The `Result` of the formula calculation is the final value of this variable.

For example, here is a formula using the function `G.GetAgentNonVoiceStatus()`:

```
Result = G.GetAgentNonVoiceStatus(Data.Current_Status.Value, email);
```

Group by Columns

CallInternal (group by language and segment)

Name	CallInternal	Segment	Language
▼ Green, Anna	9	N/A	N/A
Green, Anna	8	N/A	N/A
Green, Anna	1	Silver	N/A
Green, Anna	3	N/A	English
Green, Anna	1	Bronze	English
Green, Anna	2	Gold	English
Green, Anna	1	Silver	English
Green, Anna	1	N/A	Russian
► Qwerty, Mary	6	N/A	N/A

Segment	Language
N/A	N/A
N/A	N/A
N/A	N/A
English	English
English	English
English	English
English	English
Russian	Russian
▼ Qwerty, Mary	N/A
Qwerty, Mary	N/A
Qwerty, Mary	N/A

Important

- GroupBy support relies on Stat Server functionality that was introduced in release 8.5.103. See the [Stat Server User Guide](#) for more information on the GroupBy Feature.
- Genesys Pulse supports snapshots when GroupBy is applied to the same expression for either all or no statistics.
- When you use a GroupBy expression that involves user data which is changed during call, that call will be counted in the group with the old value (or no value) AND in the group with new value. Therefore, for the TotalNumber statistics, if you add up all values for all groups, you have more than the statistic's total value.

The GroupByColumns option facilitates provisioning of Genesys Pulse widgets and enable multi-dimensional data presentation (GroupBy capability) in Grid widgets and in the Data view on an expanded widget tab.

GroupBy columns should contain valid unique aliases, separated by comma.

StatType, used with GroupBy capability, must define the following additional attributes:

- **GroupBy**—contains grouping expressions separated by comma
- **GroupByColumns**—contains aliases for grouping expressions separated by comma

Example:

To monitor the number of internal calls grouped by Language and Segment, instead of explicitly defined and applied filters to a metric, define the GroupBy and GroupByColumns for the StatType in the Stat Server:

```
[Total_Calls_Grouped]
Category=TotalNumber
GroupBy=GetString(UserData,"Language"), GetString(UserData,"Segment")
GroupByColumns=Language, Segment
MainMask=CallInternal
Objects=Agent
Subject=DNAction
```

Include a metric based on this StatType in your widget template and make sure **Group By Columns** field is filled correctly with "Language, Segment" string.

Important

All metrics in the StatType GroupByColumns attribute aliases must be included in the **Group by Columns** field or all GroupBy data is ignored.

You can set the **Group by Columns** option when you create a template:

Statistic Properties

Widget Template Management > Agent Login Template

Objects/Statistics Display Options

Object Type *

- Select All
- ☒ Agent
- ☐ Agent Group
- ☐ Place
- ☐ Place Group
- ☐ DN
- ☐ DN/Queue Group
- ☐ Queue
- ☐ Routing Point
- ☐ Calling List
- ☐ Campaign
- ☐ Campaign Calling List
- ☐ Campaign Group
- ☐ Routing Strategy

Statistics*

Add

Current Status	✓	✎	🗑
Time in Status		✎	🗑
Login Time		✎	🗑
Continuous Login T...		✎	🗑
Reason		✎	🗑
Employee Id		✎	🗑
Place		✎	🗑
Switch		✎	🗑
Login Id		✎	🗑
Extension		✎	🗑
Position		✎	🗑
Current Status KVP		✎	🗑
Service Type		✎	🗑
Service Sub Type		✎	🗑
Customer Segment		✎	🗑
Business Result		✎	🗑

Current_Status String

☐ Formula

Notification Mode * Statistic Type *

Changes-Based ExtendedCurrentStatus

Time Profile Insensitivity

Time Range Filter

☐ Hide Statistic ☒ Show Agent State Icon

☐ Filter Out LoggedOut Agents

Additional Data

☒ Hardware Reason Codes ☒ Software Reason Codes

☐ User Data

Group by Columns

Insensitivity

Insensitivity describes a condition for Stat Server to send updates of statistical values to its clients. An increase in the value of this parameter usually decreases network traffic, but it also reduces reporting accuracy, because values are not updated as frequently. This setting is not visible in Stat Server configuration, but rather, clients pass its value to Stat Server along with each statistic request.

Insensitivity plays no role for reset-based statistics. For time-based or change-based notification mode, Stat Server only reports the recalculated value if the absolute value of the difference between the previous value and the recalculated value or its percentage ratio to the recalculated value is at least equal to the number specified by Insensitivity.

For example, if the result has a long integer data type—as is the case for statistics measuring time—Stat Server uses the absolute difference in values for comparison. Given an Insensitivity setting of 5 in this case, Stat Server sends the recalculated result to its client when the absolute value of the difference between the new and old result is at least 5 (seconds, usually).

Notification Mode

The Notification Mode determines when Stat Server sends updated statistical values. These are the

valid options:

- **Time-Based**—Select this Notification Mode to instruct Stat Server to recalculate the statistic by the frequency displayed in Notification Frequency property. Stat Server sends a new value to Genesys Pulse only when the absolute difference from the last reported value exceeds the Insensitivity property.
- **Change-Based**—Select this Notification Mode to instruct Stat Server to notify Genesys Pulse about changes immediately.
- **No Notification**—Select this option to instruct Stat Server to not report updates. Updates are turned off in this case.
- **Reset-Based**—Select this Notification Mode to instruct Stat Server to report Genesys Pulse value right before setting it to zero (0). CurrentState statistics cannot be requested with Reset-Based notification mode.

Notification Frequency

Use Notification Frequency to set how often, in seconds, Stat Server recalculates the statistic and notifies Genesys Pulse if the statistic changes by more than the valued displayed in the Insensitivity field. This field is only used when a Time-Based Notification Mode is selected for the statistic.

Statistic Type

The screenshot shows the Genesys Pulse Configuration page. The top navigation bar includes GAX, Pulse, Agents, Configuration (highlighted), Routing Parameters, and Administration. The breadcrumb trail is Home > Applications > Applications > Stat_Server Properties. On the left, a sidebar menu lists General, Connections, Ports, Tenants, and Application Options (selected). The main content area is titled 'Application Options' and contains a table with 10 rows. Each row has a checkbox in the first column and a key name in the second column. The keys are: Key, AbandCallsPercentage, AbandonedFromRinging, AbandTime, ACW_Time_Inbound, ACW_Time_Other, ACW_Time_Outbound, AgentLogInTime, AgentReadyTime, and Agents_CurrentNumber.

	Key
<input type="checkbox"/>	AbandCallsPercentage
<input type="checkbox"/>	AbandonedFromRinging
<input type="checkbox"/>	AbandTime
<input type="checkbox"/>	ACW_Time_Inbound
<input type="checkbox"/>	ACW_Time_Other
<input type="checkbox"/>	ACW_Time_Outbound
<input type="checkbox"/>	AgentLogInTime
<input type="checkbox"/>	AgentReadyTime
<input type="checkbox"/>	Agents_CurrentNumber

The mandatory Statistic Type displays the parameters that define the statistic type within Stat Server.

The list of Statistic Types available in the environment should be accessible through the Genesys Administrator Extension (GAX) within the Configuration section. You can view them in the Application Options of the Stat Server application used by Genesys Pulse.

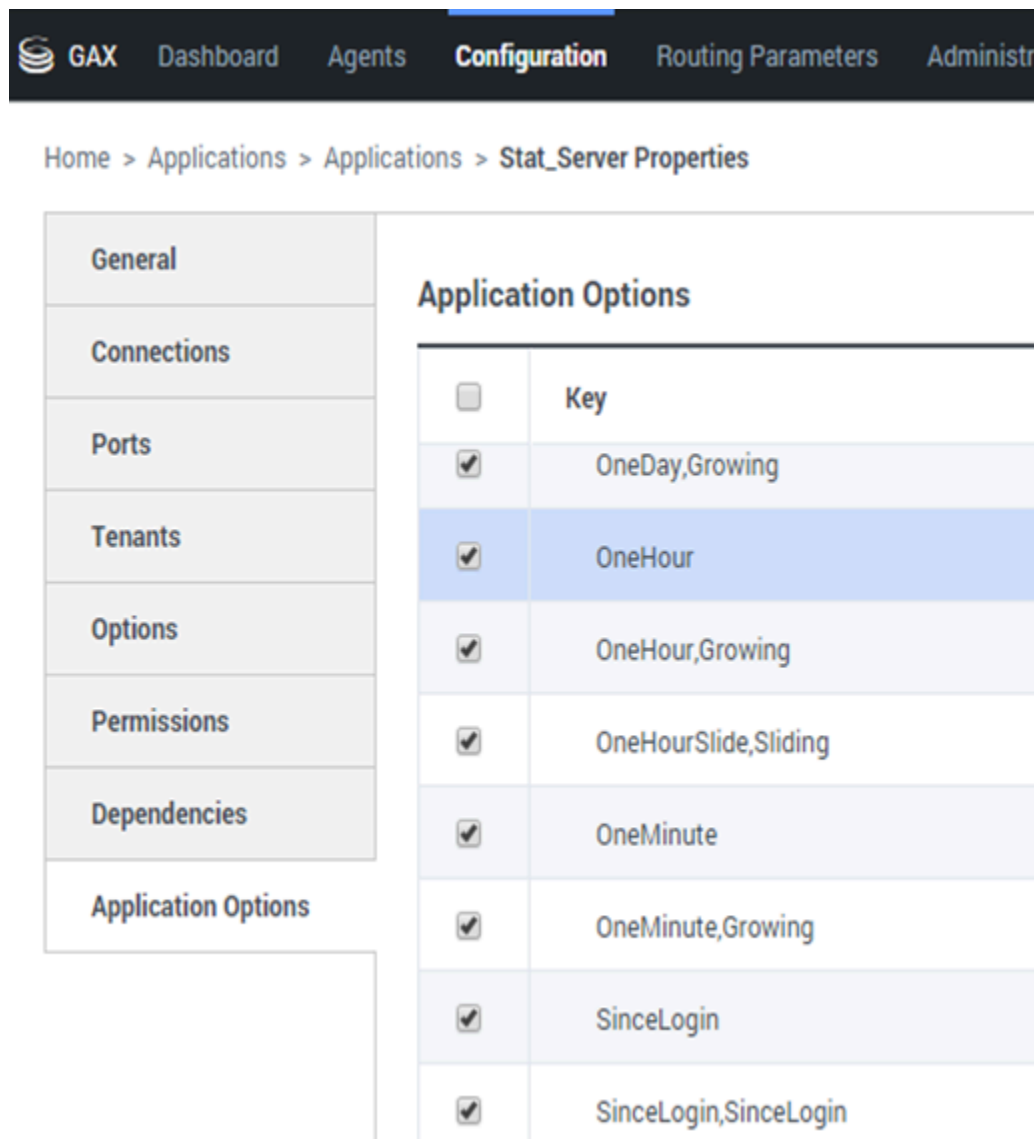
Your account must have privileges to access the Configuration section.

Within GAX, you can add, edit, or delete a statistic type.

This list should be the same as the list of statistic types detailed in the Genesys Pulse templates spreadsheet.

For more information on Stat Type definitions, see the [Stat Server User Guide](#).

Time Profile



The screenshot shows the GAX Configuration interface. The top navigation bar includes GAX, Dashboard, Agents, Configuration (highlighted), Routing Parameters, and Administration. Below the navigation bar, the breadcrumb trail reads: Home > Applications > Applications > Stat_Server Properties. The main content area is divided into two sections. On the left is a sidebar with a list of configuration categories: General, Connections, Ports, Tenants, Options, Permissions, Dependencies, and Application Options. The 'Application Options' category is selected. On the right is the 'Application Options' table, which lists various time profile options with checkboxes and their corresponding keys.

	Key
<input type="checkbox"/>	OneDay,Growing
<input checked="" type="checkbox"/>	OneHour
<input checked="" type="checkbox"/>	OneHour,Growing
<input checked="" type="checkbox"/>	OneHourSlide,Sliding
<input checked="" type="checkbox"/>	OneMinute
<input checked="" type="checkbox"/>	OneMinute,Growing
<input checked="" type="checkbox"/>	SinceLogin
<input checked="" type="checkbox"/>	SinceLogin,SinceLogin

Use the Time Profile to define the Time Profile for the statistic and specify the interval over which historical aggregate values are calculated. All time profiles are defined as configuration options in the Time Profiles of the Stat Server Application object in Genesys Configuration. See the [Stat Server User Guide](#) for information about how to set up time profiles.

The list of Time Profiles available in the environment should be accessible in the GAX Configuration section. This view is available in Stat Server application options used by Genesys Pulse.

Your account must have privileges to access this section.

Within GAX, you can add, edit, or delete a Time Profile.

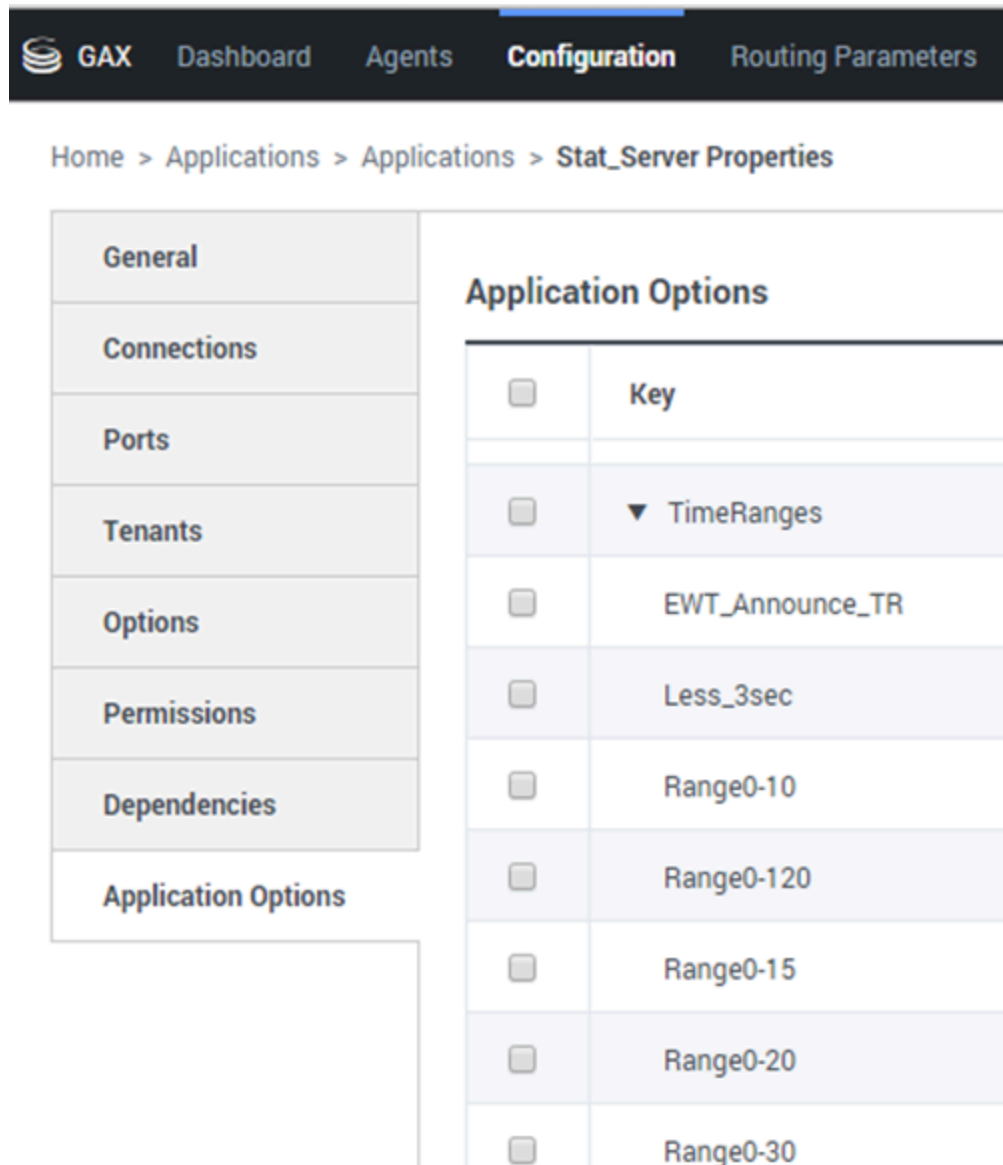
The Time Profile contains four main types:

- Growing
- Sliding
- Selection
- SinceLogin

Time Profiles Examples

- Default,Growing—The Default time profile uses a Growing interval type and resets statistics to zero (0) every night at midnight. The default value is set to 00:00.
- LastHour,Sliding—The LastHour time profile uses a Sliding interval type and tracks the last hour of activity with a sampling taken every 15 seconds. The default value is set to 3600:15.
- SinceLogin,SinceLogin—SinceLogin resets statistics to zero (**0**) at the moment of agent login. Statistics continue to accumulate as long as the agent is logged into (any) DN. The SinceLogin interval type aggregates statistical data only for agent-object statistics.
- Shifts,Growing—A time profile named Shifts resets statistics to zero when shifts change at 3:00 AM, 7:00 AM, 11:00 AM, 1:00 PM, 7:00 PM, and 1:00 AM. The default value is set to 3:00 +4:00, 13:00 +6:00.

Time Range



The screenshot shows the GAX Configuration page. The top navigation bar includes GAX, Dashboard, Agents, Configuration (highlighted), and Routing Parameters. Below the navigation bar is a breadcrumb trail: Home > Applications > Applications > Stat_Server Properties. The main content area is divided into two sections. On the left is a sidebar with a list of configuration categories: General, Connections, Ports, Tenants, Options, Permissions, Dependencies, and Application Options (which is highlighted). On the right is the 'Application Options' section, which contains a table of configuration options.

<input type="checkbox"/>	Key
<input type="checkbox"/>	TimeRanges
<input type="checkbox"/>	EWT_Announce_TR
<input type="checkbox"/>	Less_3sec
<input type="checkbox"/>	Range0-10
<input type="checkbox"/>	Range0-120
<input type="checkbox"/>	Range0-15
<input type="checkbox"/>	Range0-20
<input type="checkbox"/>	Range0-30

The Time Range specifies when to collect data for a limited set of statistics. See the [Stat Server User Guide](#) for information about how to set up time profiles.

The list of Time Ranges is available in the Configuration section of GAX. This view is available in the options of the Stat Server application used by the Genesys Pulse solution.

Your account needs to have privileges to access this section.

Within GAX, you can add, edit, or delete a time range.

Time Ranges apply to statistics in following categories:

- TotalNumberInTimeRange
- TotalNumberInTimeRangePercentage
- CurrentNumberInTimeRange
- CurrentNumberInTimeRangePercentage
- ServiceFactor1
- TotalTimeInTimeRange

Time Range Example

Suppose that you want to calculate the total number of calls answered within 30 seconds. To do so, enter Range0-30 in the Name field, and 0-30 in the Value field.

In this example, a Genesys Pulse statistic that calculates the total number of calls is based on the time range "Range0-30". If one call is answered after being in a queue for 25 seconds, a second call after 40 seconds, and a third call after 10 seconds, Stat Server counts only the first and third calls.

What do I do next?

You might want to learn more about:

- [Widget templates](#)
- [Report formulas](#)
- [Template function library](#)