

GENESYS

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Web Services API Reference

List of statistics to be monitored

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Contents

- 1 List of statistics to be monitored
 - 1.1 Entry Format
 - 1.2 Queue Statistics
 - 1.3 Skills Statistics
 - 1.4 Agent Statistics
 - 1.5 Resources

Entry Format

Two modes of statistics definitions are supported, "simple" and "extended". In "simple" mode, the statistic type is defined in Configuration Manager and the statistics.yaml entry defines the additional statistics options and the statistic name in the API. In "extended" mode, the full definition of the statistic is provided in statistics.yaml entry. In this case there is no need to use Configuration Manager for statistic definition. The switch between modes is defined basing on presence of **statisticDefinitionEx** property. If the specified mode is in "extended" mode, **statisticDefinitionName** is ignored if present.

Simple Mode Entry Format

[+] Simple Mode Entry Format

Example:

name: test statisticDefinitionName: TestAgentStat objectType: QUEUE timeProfile: OneDay notificationMode: PERIODICAL notificationFrequency: 10 timeRange: Range0-60 timeRange2: Range0-5

The properties meaning are:

- name the name of statistic as it appears in API request
- statisticDefinitionName the name of statistic type (definition) as it's in CME (see Stat Server User's Guide)
- objectType the type of objects statistic is applied. Possible values: AGENT|QUEUE|SKILL_Q|SKILL_AG:
 - · AGENT statistic is monitored for agents
 - QUEUE statistic is monitored for queues
 - SKILL_AG statistic is monitored for agentGroup, associated with skill
 - SKILL_Q statistic is monitored for virtual queue, associated with skill
- notificationMode PERIODICAL
- notificationFrequency the frequency of notification (in seconds)
- timeProfile the name of timeProfile in Configuration Manager used for statistic aggregation (see Stat Server User's Guide)
- timeRange/timeRange2 the timeranges names which are defined in Configuration Manager and are used for calculating statistic (see Stat Server User's Guide)

Extended mode entry format

[+] Extended Mode Entry Format

To use this mode replace the **statisticDefinitionName** string with **statisticDefinitionEx** containing full definition of statistic type. Here is the sample format:

```
name: testServiceLevel
statisticDefinitionEx:
    category: TotalNumberInTimeRangePercentage
    mainMask: CallAnswered
    subject: DNAction
    intervalType: GrowingWindow
    dynamicTimeProfile: "0:00"
    timeRangeLeft: 0
    timeRangeRight: 60
objectType: QUEUE
notificationMode: PERIODICAL
notificationFrequency: 10
```

Fields **name**, **objectType**, **notificationMode**, **notificationFrequency** have the same meaning as for simple mode. The **statisticDefinitionEx** defines the statistic to be collected. Note the indentation here. No tabs can be used (See YAML 1.1 Spec).

Option	Туре	Mandatory	Default Value	Note
category	String	Y		The statistic's category
mainMask	comma-delimited list	Y		The statistic's main mask
relativeMask	comma-delimited list	Ν	Empty list	The statistic's relative mask
subject	String	Y		The statistic's subject
intervalType	GrowingWindow OR SinceLogin OR SlidingSelection OR SlidingWindow	Ν		The statistic's interval type
dynamicTimeProfile	String	Ν		The time profile (interval) value to be used
timeRangeLeft	Integer	Ν	null	The "from/left/ start/lower" value of TimeRange interval
timeRangeRight	Integer	Ν	null	The "to/right/end/ upper" value of TimeRange interval

The supported properties are:

Option	Туре	Mandatory	Default Value	Note
timeRangeLeft2	Integer	Ν	null	The "from/left/ start/lower" value of TimeRange2 interval
timeRangeRight2	Integer	Ν	null	The "to/right/end/ upper" value of TimeRange2 interval
dynamicFilter	String	Ν	null	filter to be used
distinguishByConnId	Boolean	Ν	null	look for DCID in StatServerUserGuide

Note that those properties are used for defining the statistics. Not all combinations are supported by StatServer. See Stat Server user guide for more info.

Queue Statistics

[+] Total_Answered

The number of customer interactions that entered a service type and were accepted, answered, or pulled by agent (s)/agent group (s) within the reporting time interval.

Definition in Configuration Server:

```
name: Total_Answered
notificationFrequency: 10
notificationMode: PERIODICAL
objectType: QUEUE
statisticDefinitionEx:
    category: TotalNumber
    dynamicTimeProfile: "0:00"
    intervalType: GrowingWindow
    mainMask: CallAnswered
    subject: DNAction
```

[+] Total_Abandoned

The number of interactions that were terminated by the customer while waiting on the service type during the reporting time interval. This stat type excludes interactions that were distributed to an agent and then abandoned before the agent could answer (Call Abandoned While Ringing).

Definition in Configuration Server:

```
name: Total_Abandoned
notificationFrequency: 10
notificationMode: PERIODICAL
objectType: QUEUE
statisticDefinitionEx:
    category: TotalNumber
    dynamicTimeProfile: "0:00"
    intervalType: GrowingWindow
```

mainMask: CallAbandoned
subject: DNAction

[+] Current_In_Queue

The number of customer interactions that are currently waiting in queue.

Definition in Configuration Server:

```
name: Current_In_Queue
notificationFrequency: 10
notificationMode: PERIODICAL
objectType: QUEUE
statisticDefinitionEx:
    category: CurrentNumber
    mainMask: CallWait
    subject: DNAction
```

No time profile.

[+] CurrMaxCallWaitingTime

The maximum waiting time for customer interactions currently waiting on a service Definition in Configuration Server:

```
name: CurrMaxCallWaitingTime
notificationFrequency: 10
notificationMode: PERIODICAL
objectType: QUEUE
statisticDefinitionEx:
    category: CurrentMaxTime
    mainMask: CallWait
    relativeMask: CallWait
    subject: DNAction
```

No time profile.

[+] ServiceLevel

Ratio of call answered within given interval (specified by first time range) compared to (total number answered + total abandoned after delay specified by second time range).

```
name: ServiceLevel
statisticDefinitionEx:
    category: ServiceFactorl
    subject: DNAction
    intervalType: GrowingWindow
    dynamicTimeProfile: "0:00+1:00"
    timeRangeLeft: 0
    timeRangeLeft2: 0
    timeRangeLeft2: 10
objectType: QUEUE
notificationMode: PERIODICAL
notificationFrequency: 10
```

[+] AverageWaitingTime

Average wait time for customer interactions what were entered and distributed/abandoned on a service type during reporting time interval Note: this will calculate wait time for all calls, including ones that were abandoned.

Definition in Configuration Server:

```
name: AverageWaitingTime
notificationFrequency: 10
notificationMode: PERIODICAL
objectType: QUEUE
statisticDefinitionEx:
    category: AverageTime
    dynamicTimeProfile: "0:00"
    intervalType: GrowingWindow
    mainMask: CallWait
    relativeMask: CallWait
    subject: DNAction
```

Skills Statistics

[+] CurrentNotReadyAgents

Number of not ready agents with skill

```
name: CurrentNotReadyAgents
notificationFrequency: 10
notificationMode: PERIODICAL
objectType: SKILL_AG
statisticDefinitionEx:
    category: CurrentNumber
    mainMask: NotReadyForNextCall
    subject: AgentStatus
```

Time profile - not used.

[+] CurrentReadyAgents

Number of ready agents with skill

```
name: CurrentReadyAgents
notificationFrequency: 10
notificationMode: PERIODICAL
objectType: SKILL_AG
statisticDefinitionEx:
    category: CurrentNumber
    mainMask: WaitForNextCall
    subject: AgentStatus
```

Time profile - not used.

[+] CurrNumberInCall

Number of agents with skill in call

name: CurrNumberInCall
notificationFrequency: 10
notificationMode: PERIODICAL
objectType: SKILL_AG
statisticDefinitionEx:
 category: CurrentNumber
 mainMask: CallUnknown, CallConsult, CallInternal, CallOutbound, CallInbound, CallRinging,
CallDialing
 subject: AgentStatus

Time profile - not used.

[+] LongestIdleTime

The longest time an agent is currently waiting to receive a call (evaluated maximum of current idle time for all agents in group which are currently waiting to receive a call, may be 0 if no idle agents are present in group at the moment).

```
name: LongestIdleTime
notificationFrequency: 10
notificationMode: PERIODICAL
objectType: SKILL_AG
statisticDefinitionEx:
    category: CurrentMaxTime
    mainMask: WaitForNextCall
    subject: AgentStatus
```

Time profile - not used.

[+] AverageHandlingTime

The average amount of time during the reporting interval that agent/agent groups spent on customer interactions including After Call Work (ACW)/ wrap-up status.

```
name: AverageHandlingTime
notificationFrequency: 10
notificationMode: PERIODICAL
objectType: SKILL_AG
statisticDefinitionEx:
    category: AverageTime
    dynamicTimeProfile: "0:00"
    intervalType: GrowingWindow
    mainMask: CallUnknown, CallConsult, CallInternal, CallOutbound, CallInbound, AfterCallWork
    relativeMask: CallUnknown, CallConsult, CallInternal, CallOutbound, CallInbound
    subject: DNStatus
```

[+] ServiceLevel

Ratio of call answered within given interval (specified by first time range) compared to (total number answered + total abandoned after delay specified by second time range).

```
name: ServiceLevel
statisticDefinitionEx:
    category: ServiceFactor1
    subject: DNAction
```

```
intervalType: GrowingWindow
dynamicTimeProfile: "0:00+1:00"
timeRangeLeft: 0
timeRangeRight: 120
timeRangeLeft2: 0
timeRangeRight2: 10
objectType: SKILL_Q
notificationMode: PERIODICAL
notificationFrequency: 10
```

Agent Statistics

[+] Other agent statistics

The definitions of other agent statistics are self-describing.

```
#agent
name: AverageHandlingTime
notificationFrequency: 10
notificationMode: PERIODICAL
objectType: AGENT
statisticDefinitionEx:
    category: AverageTime
    dynamicTimeProfile: "0:00"
    intervalType: GrowingWindow
    mainMask: CallUnknown, CallConsult, CallInternal, CallOutbound, CallInbound, AfterCallWork
    relativeMask: CallUnknown, CallConsult, CallInternal, CallOutbound, CallInbound
    subject: DNStatus
name: Productivity
notificationFrequency: 10
notificationMode: PERIODICAL
objectType: AGENT
statisticDefinitionEx:
    category: AverageNumberPerRelativeHour
    dynamicTimeProfile: "0:00"
    intervalType: GrowingWindow
    mainMask: CallInbound, CallOutbound, CallInternal, CallConsult, CallUnknown
    relativeMask: '*,~LoggedOut,~NotMonitored'
    subject: AgentStatus
- - -
name: InboundCalls
notificationFrequency: 10
notificationMode: PERIODICAL
objectType: AGENT
statisticDefinitionEx:
    category: TotalNumber
    dynamicTimeProfile: "0:00"
    intervalType: GrowingWindow
    mainMask: CallInbound
    subject: DNAction
- - -
name: InternalCalls
notificationFrequency: 10
notificationMode: PERIODICAL
objectType: AGENT
statisticDefinitionEx:
    category: TotalNumber
```

dynamicTimeProfile: "0:00" intervalType: GrowingWindow mainMask: CallInternal subject: DNAction - - name: OutboundCalls notificationFrequency: 10 notificationMode: PERIODICAL objectType: AGENT statisticDefinitionEx: category: TotalNumber dynamicTimeProfile: "0:00" intervalType: GrowingWindow mainMask: CallOutbound subject: DNAction - - name: ConsultCalls notificationFrequency: 10 notificationMode: PERIODICAL objectType: AGENT statisticDefinitionEx: category: TotalNumber dynamicTimeProfile: "0:00" intervalType: GrowingWindow mainMask: CallConsult subject: DNAction - - name: ReadvDuration notificationFrequency: 10 notificationMode: PERIODICAL objectType: AGENT statisticDefinitionEx: category: TotalAdjustedTime dynamicTimeProfile: "0:00" intervalType: GrowingWindow mainMask: WaitForNextCall subject: AgentStatus name: WrapDuration notificationFrequency: 10 notificationMode: PERIODICAL objectType: AGENT statisticDefinitionEx: category: TotalAdjustedTime dynamicTimeProfile: "0:00" intervalType: GrowingWindow mainMask: AfterCallWork relativeMask: AfterCallWork subject: AgentStatus name: TalkDuration notificationFrequency: 10 notificationMode: PERIODICAL objectType: AGENT statisticDefinitionEx: category: TotalAdjustedTime dynamicTimeProfile: "0:00" intervalType: GrowingWindow mainMask: CallUnknown, CallConsult, CallInternal, CallOutbound, CallInbound subject: DNAction name: HoldDuration notificationFrequency: 10

```
notificationMode: PERIODICAL
objectType: AGENT
statisticDefinitionEx:
    category: TotalAdjustedTime
    dynamicTimeProfile: "0:00"
    intervalType: GrowingWindow
    mainMask:
CallOnHoldInbound,CallOnHoldOutbound,CallOnHoldInternal,CallOnHoldConsult,CallOnHoldUnknown
    subject: DNAction
```

Resources

See Enabling Reporting in the Workspace Web Edition & Web Services Deployment Guide.

See Configuring Virtual Queues & Virtual Agent Groups in the Workspace Web Edition & Web Services Deployment Guide.

This list is the minimal list - it contains only statistics which are required for current version of UI.

[+] Sample statistics.yaml file

Internal statistics used for tracing the state of agent.

```
#internal stats
name: CurrentTargetState
statisticDefinitionEx:
    category: CurrentTargetState
    mainMask: '*'
    subject: DNStatus
    dynamicTimeProfile: "0:00"
    intervalType: GrowingWindow
objectType: AGENT
notificationMode: IMMEDIATE
notificationFrequency: 0
- - -
name: CurrentAgentState
notificationFrequency: 0
notificationMode: IMMEDIATE
objectType: AGENT
statisticDefinitionEx:
    category: CurrentState
    mainMask: '*
    subject: DNAction
- - -
#queue
name: Total Answered
notificationFrequency: 10
notificationMode: PERIODICAL
objectType: QUEUE
statisticDefinitionEx:
    category: TotalNumber
    dynamicTimeProfile: "0:00"
    intervalType: GrowingWindow
    mainMask: CallAnswered
    subject: DNAction
```

```
name: Total_Abandoned
```

notificationFrequency: 10 notificationMode: PERIODICAL objectType: QUEUE statisticDefinitionEx: category: TotalNumber dynamicTimeProfile: "0:00" intervalType: GrowingWindow mainMask: CallAbandoned subject: DNAction name: Current_In_Queue notificationFrequency: 10 notificationMode: PERIODICAL objectType: QUEUE statisticDefinitionEx: category: CurrentNumber mainMask: CallWait subject: DNAction - - name: CurrMaxCallWaitingTime notificationFrequency: 10 notificationMode: PERIODICAL objectType: QUEUE statisticDefinitionEx: category: CurrentMaxTime mainMask: CallWait relativeMask: CallWait subject: DNAction - - name: AverageWaitingTime notificationFrequency: 10 notificationMode: PERIODICAL objectType: QUEUE statisticDefinitionEx: category: AverageTime dynamicTimeProfile: "0:00" intervalType: GrowingWindow mainMask: CallWait relativeMask: CallWait subject: DNAction #Skill AG name: CurrentNotReadyAgents notificationFrequency: 10 notificationMode: PERIODICAL objectType: SKILL AG statisticDefinitionEx: category: CurrentNumber mainMask: AfterCallWork, NotReadyForNextCall subject: AgentStatus - - name: CurrentReadyAgents notificationFrequency: 10 notificationMode: PERIODICAL objectType: SKILL AG statisticDefinitionEx: category: CurrentNumber mainMask: WaitForNextCall subject: AgentStatus - - name: CurrNumberInCall notificationFrequency: 10 notificationMode: PERIODICAL

List of statistics to be monitored

```
objectType: SKILL_AG
statisticDefinitionEx:
    category: CurrentNumber
    mainMask: CallUnknown, CallConsult, CallInternal, CallOutbound, CallInbound, CallRinging,
CallDialing
    subject: AgentStatus
- - -
name: CurrentNumberLoggedInAgents
notificationFrequency: 10
notificationMode: PERIODICAL
objectType: SKILL AG
statisticDefinitionEx:
    category: CurrentNumber
    mainMask: '*,~LoggedOut,~NotMonitored'
    subject: AgentStatus
- - -
name: LongestIdleTime
notificationFrequency: 10
notificationMode: PERIODICAL
objectType: SKILL AG
statisticDefinitionEx:
    category: CurrentMaxTime
    mainMask: WaitForNextCall
    subject: AgentStatus
name: AverageHandlingTime
notificationFrequency: 10
notificationMode: PERIODICAL
objectType: SKILL_AG
statisticDefinitionEx:
    category: AverageTime
    dynamicTimeProfile: "0:00"
    intervalType: GrowingWindow
    mainMask: CallUnknown, CallConsult, CallInternal, CallOutbound, CallInbound, AfterCallWork
    relativeMask: CallUnknown, CallConsult, CallInternal, CallOutbound, CallInbound
    subject: DNStatus
- - -
#agent
name: AverageHandlingTime
notificationFrequency: 10
notificationMode: PERIODICAL
objectType: AGENT
statisticDefinitionEx:
    category: AverageTime
    dynamicTimeProfile: "0:00"
    intervalType: GrowingWindow
    mainMask: CallUnknown, CallConsult, CallInternal, CallOutbound, CallInbound, AfterCallWork
    relativeMask: CallUnknown, CallConsult, CallInternal, CallOutbound, CallInbound
    subject: DNStatus
name: Productivity
notificationFrequency: 10
notificationMode: PERIODICAL
objectType: AGENT
statisticDefinitionEx:
    category: AverageNumberPerRelativeHour
    dynamicTimeProfile: "0:00"
    intervalType: GrowingWindow
    mainMask: CallInbound, CallOutbound, CallInternal, CallConsult, CallUnknown
    relativeMask: '*,~LoggedOut,~NotMonitored'
    subject: AgentStatus
- - -
name: InboundCalls
```

notificationFrequency: 10 notificationMode: PERIODICAL objectType: AGENT statisticDefinitionEx: category: TotalNumber dynamicTimeProfile: "0:00" intervalType: GrowingWindow mainMask: CallInbound subject: DNAction name: InternalCalls notificationFrequency: 10 notificationMode: PERIODICAL objectType: AGENT statisticDefinitionEx: category: TotalNumber dynamicTimeProfile: "0:00" intervalType: GrowingWindow mainMask: CallInternal subject: DNAction name: OutboundCalls notificationFrequency: 10 notificationMode: PERIODICAL objectType: AGENT statisticDefinitionEx: category: TotalNumber dvnamicTimeProfile: "0:00" intervalType: GrowingWindow mainMask: CallOutbound subject: DNAction name: ConsultCalls notificationFrequency: 10 notificationMode: PERIODICAL objectType: AGENT statisticDefinitionEx: category: TotalNumber dvnamicTimeProfile: "0:00" intervalType: GrowingWindow mainMask: CallConsult subject: DNAction - - name: ReadyDuration notificationFrequency: 10 notificationMode: PERIODICAL objectType: AGENT statisticDefinitionEx: category: TotalAdjustedTime dynamicTimeProfile: "0:00" intervalType: GrowingWindow mainMask: WaitForNextCall subject: AgentStatus name: WrapDuration notificationFrequency: 10 notificationMode: PERIODICAL objectType: AGENT statisticDefinitionEx: category: TotalAdjustedTime dynamicTimeProfile: "0:00" intervalType: GrowingWindow mainMask: AfterCallWork

```
relativeMask: AfterCallWork
    subject: AgentStatus
- - -
name: TalkDuration
notificationFrequency: 10
notificationMode: PERIODICAL
objectType: AGENT
statisticDefinitionEx:
    category: TotalAdjustedTime
    dynamicTimeProfile: "0:00"
    intervalType: GrowingWindow
    mainMask: CallUnknown, CallConsult, CallInternal, CallOutbound, CallInbound
    subject: DNAction
name: HoldDuration
notificationFrequency: 10
notificationMode: PERIODICAL
objectType: AGENT
statisticDefinitionEx:
    category: TotalAdjustedTime
    dynamicTimeProfile: "0:00"
    intervalType: GrowingWindow
    mainMask:
CallOnHoldInbound, CallOnHoldOutbound, CallOnHoldInternal, CallOnHoldConsult, CallOnHoldUnknown
    subject: DNAction
#service level
name: ServiceLevel
statisticDefinitionEx:
    category: ServiceFactor1
    subject: DNAction
    intervalType: GrowingWindow
    dynamicTimeProfile: "0:00+1:00"
    timeRangeLeft: 0
    timeRangeRight: 120
    timeRangeLeft2: 0
    timeRangeRight2: 10
objectType: QUEUE
notificationMode: PERIODICAL
notificationFrequency: 10
- - -
name: ServiceLevel
statisticDefinitionEx:
    category: ServiceFactor1
    subject: DNAction
intervalType: GrowingWindow
    dynamicTimeProfile: "0:00+1:00"
    timeRangeLeft: 0
    timeRangeRight: 120
    timeRangeLeft2: 0
    timeRangeRight2: 10
objectType: SKILL Q
notificationMode: PERIODICAL
notificationFrequency: 10
```