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# Web Services and Applications Configuration Guide

Enabling Agents to View KPIs and Contact Center Statistics

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# Enabling Agents to View KPIs and Contact Center Statistics

The Workspace agent desktop includes two optional tabs and the **Statistics Gadget** that you can configure to display real-time agent **Key Performance Indicators (KPIs) (My Statistics)** and **contact center statistics (Contact Center Statistics)**. KPIs enable agents to focus on their efficiency and to compare their performance against that of their colleagues. Contact center statistics enable agents to focus on their efficiency and to compare their performance against that of their colleagues.

## Important

KPIs and Statistics are reported only for the voice channel.

To enable KPIs and statistics:

1. You must first set up the **statistics.yaml**, which contains a list of statistics that can be requested from Stat Server.
2. You then create sections in the Workspace Application object that correspond to the statistic names in the **statistic.yaml** file that you want to use.
3. Finally, you configure the KPI and Contact Center Statistics options to display the statistics to your agents.

For details about the statistics used in Workspace, see the following topics in the **Stat Server 8.5.1 User's Guide**:

- [Statistic Configuration Options](#)
- [Statistical Type Sections](#)
- [Stat Type Definitions in the Stat Server Application Template](#)
- [Creating Stat Type Definitions](#)

The following statistics are supported by default in Workspace. To display them, follow the example for how to display a statistic in the **My Statistics** or **Contact Center Statistics** tabs:

• AverageHandlingTime	• CurrentTargetState	• MissedEmails	• TalkDuration
• AverageHandlingTime_ChatCurrent_In_Queue		• OutboundCalls	• TimeInCurrentEmail
• AverageHandlingTime_EmailEmailDuration		• OutboundEmails	• TimeInCurrentFacebook
• AverageWaitingTime	• HoldDuration	• Productivity	• TimeInCurrentState
• ChatDuration	• InboundCalls	• Productivity_Chat	• TimeInCurrentTwitter

<ul style="list-style-type: none"> <li>• ConsultCalls</li> <li>• CurrAvgCallWaitingTime</li> <li>• CurrMaxCallWaitingTime</li> <li>• CurrNumberInCall</li> <li>• CurrentAgentState</li> <li>• CurrentNotReadyAgents</li> <li>• CurrentNumberLoggedInAgents</li> <li>• CurrentReadyAgents</li> </ul>	<ul style="list-style-type: none"> <li>• InboundChats</li> <li>• InboundEmails</li> <li>• InternalCalls</li> <li>• LongestIdleTime</li> <li>• MissedCalls</li> <li>• MissedCallsForSkill</li> <li>• MissedChats</li> </ul>	<ul style="list-style-type: none"> <li>• Productivity_Email</li> <li>• ReadyDuration</li> <li>• ReadyDuration_Chat</li> <li>• ReadyDuration_Email</li> <li>• RejectedChats</li> <li>• RejectedEmails</li> <li>• ServiceLevel</li> <li>• ServiceLevel</li> </ul>	<ul style="list-style-type: none"> <li>• TimeInCurrentWorkitem</li> <li>• Total_Abandoned</li> <li>• Total_Answered</li> <li>• TransferredChats</li> <li>• TransferredChatsToQueue</li> <li>• TransferredEmails</li> <li>• TransferredEmailsToQueue</li> <li>• WrapDuration</li> </ul>
---	--	---	--

## statistics.yaml Setup

Workspace reports statistics based on the statistic names in the **statistics.yaml** file which is included with Web Applications and Services. The file contains all of the statistics that Workspace needs internally as well as those that are required by the agent and supervisor applications.

The **statistics.yaml** file is located in the main Web Services config folder (this is defined by the `config.path` variable, which is set to `/opt/jetty/genconfig` by default on the Ubuntu voice machine).

The following is an example entry in the **statistics.yaml** file. The name of the statistic is `OutboundCalls`. To use this statistic, create a section in the `WS_Cluster` application object by using Genesys Administrator Extension (or Configuration Manager) such as `KPI-OutboundCalls`, then create an option in the section called `statistic-name` and assign `OutboundCalls` as the value. You can also create an option in the section called `description` and specify the value as `Total number outbound calls`.

```
name: OutboundCalls
notificationFrequency: 10
notificationMode: PERIODICAL
objectType: AGENT
statisticDefinitionEx:
  category: TotalNumber
  dynamicTimeProfile: "0:00"
  intervalType: GrowingWindow
  mainMask: CallOutbound
  subject: DNAction
```

## List of Available Statistics

Click the link below to see an example of a **statistics.yaml** file and all the statistics available in Workspace by default:

## [+] statistics.yaml

```
---
name: CurrentTargetState
notificationFrequency: 0
```

```
notificationMode: IMMEDIATE
objectType: AGENT
statisticDefinitionEx:
  category: CurrentTargetState
  mainMask: '*'
  subject: DNStatus
  dynamicTimeProfile: 0:00
  intervalType: GrowingWindow
---
name: CurrentAgentState
notificationFrequency: 0
notificationMode: IMMEDIATE
objectType: AGENT
statisticDefinitionEx:
  category: CurrentState
  mainMask: '*'
  subject: DNAction
---
insensitivity: 0
name: Total_Answered
notificationFrequency: 10
notificationMode: PERIODICAL
objectType: QUEUE
saveHistory: true
statisticDefinitionEx:
  dynamicFilter: MediaType=voice
  category: TotalNumber
  dynamicTimeProfile: 0:00
  intervalType: GrowingWindow
  mainMask: CallAnswered
  subject: DNAction
---
insensitivity: 0
name: Total_Abandoned
notificationFrequency: 10
notificationMode: PERIODICAL
objectType: QUEUE
saveHistory: true
statisticDefinitionEx:
  dynamicFilter: MediaType=voice
  category: TotalNumber
  dynamicTimeProfile: 0:00
  intervalType: GrowingWindow
  mainMask: CallAbandoned
  subject: DNAction
---
insensitivity: 0
name: Current_In_Queue
notificationFrequency: 10
notificationMode: PERIODICAL
objectType: QUEUE
statisticDefinitionEx:
  dynamicFilter: MediaType=voice
  category: CurrentNumber
  mainMask: CallWait
  subject: DNAction
---
insensitivity: 0
name: CurrMaxCallWaitingTime
notificationFrequency: 10
notificationMode: PERIODICAL
objectType: QUEUE
statisticDefinitionEx:
```

```
dynamicFilter: MediaType=voice
category: CurrentMaxTime
mainMask: CallWait
relativeMask: CallWait
subject: DNAction
---
insensitivity: 0
name: CurrAvgCallWaitingTime
notificationFrequency: 10
notificationMode: PERIODICAL
objectType: QUEUE
statisticDefinitionEx:
  dynamicFilter: MediaType=voice
  category: CurrentAverageTime
  mainMask: CallWait
  relativeMask: CallWait
  subject: DNAction
---
insensitivity: 0
name: AverageWaitingTime
notificationFrequency: 10
notificationMode: PERIODICAL
objectType: QUEUE
statisticDefinitionEx:
  dynamicFilter: MediaType=voice
  category: AverageTime
  dynamicTimeProfile: 0:00
  intervalType: GrowingWindow
  mainMask: CallWait
  relativeMask: CallWait
  subject: DNAction
---
insensitivity: 0
name: CurrentNotReadyAgents
notificationFrequency: 10
notificationMode: PERIODICAL
objectType: SKILL_AG
statisticDefinitionEx:
  dynamicFilter: MediaType=voice
  category: CurrentNumber
  mainMask: AfterCallWork, NotReadyForNextCall
  subject: DNStatus
---
insensitivity: 0
name: CurrentReadyAgents
notificationFrequency: 10
notificationMode: PERIODICAL
objectType: SKILL_AG
statisticDefinitionEx:
  dynamicFilter: MediaType=voice
  category: CurrentNumber
  mainMask: WaitForNextCall
  subject: DNStatus
---
insensitivity: 0
name: CurrNumberInCall
notificationFrequency: 10
notificationMode: PERIODICAL
objectType: SKILL_AG
statisticDefinitionEx:
  dynamicFilter: MediaType=voice
  category: CurrentNumber
  mainMask: CallUnknown, CallConsult, CallInternal, CallOutbound, CallInbound, CallRinging,
```

```
CallDialing
  subject: DNStatus
---
insensitivity: 0
name: CurrentNumberLoggedInAgents
notificationFrequency: 10
notificationMode: PERIODICAL
objectType: SKILL_AG
statisticDefinitionEx:
  dynamicFilter: MediaType=voice
  category: CurrentNumber
  mainMask: '*,-LoggedOut,-NotMonitored'
  subject: DNStatus
---
insensitivity: 0
name: LongestIdleTime
notificationFrequency: 10
notificationMode: PERIODICAL
objectType: SKILL_AG
statisticDefinitionEx:
  dynamicFilter: MediaType=voice
  category: CurrentMaxTime
  mainMask: WaitForNextCall
  subject: DNStatus
---
insensitivity: 0
name: AverageHandlingTime
notificationFrequency: 10
notificationMode: PERIODICAL
objectType: SKILL_AG
statisticDefinitionEx:
  dynamicFilter: MediaType=voice
  category: AverageTime
  dynamicTimeProfile: 0:00
  intervalType: GrowingWindow
  mainMask: CallUnknown, CallConsult, CallInternal, CallOutbound, CallInbound, AfterCallWork
  relativeMask: CallUnknown, CallConsult, CallInternal, CallOutbound, CallInbound
  distinguishByConnId: true
  subject: DNStatus
---
insensitivity: 0
name: MissedCallsForSkill
notificationFrequency: 10
notificationMode: PERIODICAL
objectType: SKILL_AG
statisticDefinitionEx:
  dynamicFilter: MediaType=voice
  category: TotalNumber
  mainMask: CallForwarded
  subject: DNAction
  intervalType: SlidingWindow
  intervalLength: 9999999
  dynamicTimeProfile: 3600:10
  distinguishByConnId: false
---
insensitivity: 0
name: AverageHandlingTime
notificationFrequency: 10
notificationMode: PERIODICAL
objectType: AGENT
statisticDefinitionEx:
  dynamicFilter: MediaType=voice
  category: AverageTime
```

---

```
dynamicTimeProfile: 0:00
intervalType: GrowingWindow
mainMask: CallUnknown, CallConsult, CallInternal, CallOutbound, CallInbound, AfterCallWork
relativeMask: CallUnknown, CallConsult, CallInternal, CallOutbound, CallInbound
distinguishByConnId: true
subject: DNStatus
---
insensitivity: 0
name: Productivity
notificationFrequency: 10
notificationMode: PERIODICAL
objectType: AGENT
statisticDefinitionEx:
  dynamicFilter: MediaType=voice
  category: AverageNumberPerRelativeHour
  dynamicTimeProfile: 0:00
  intervalType: GrowingWindow
  mainMask: CallInbound,CallOutbound,CallInternal,CallConsult,CallUnknown
  relativeMask: '*,~LoggedOut,~NotMonitored'
  subject: DNStatus
  distinguishByConnId: true
---
insensitivity: 0
name: InboundCalls
notificationFrequency: 10
notificationMode: PERIODICAL
objectType: AGENT
statisticDefinitionEx:
  dynamicFilter: MediaType=voice
  category: TotalNumber
  dynamicTimeProfile: 0:00
  intervalType: GrowingWindow
  mainMask: CallInbound
  subject: DNAction
---
insensitivity: 0
name: InternalCalls
notificationFrequency: 10
notificationMode: PERIODICAL
objectType: AGENT
statisticDefinitionEx:
  dynamicFilter: MediaType=voice
  category: TotalNumber
  dynamicTimeProfile: 0:00
  intervalType: GrowingWindow
  mainMask: CallInternal
  subject: DNAction
---
insensitivity: 0
name: OutboundCalls
notificationFrequency: 10
notificationMode: PERIODICAL
objectType: AGENT
statisticDefinitionEx:
  dynamicFilter: MediaType=voice
  category: TotalNumber
  dynamicTimeProfile: 0:00
  intervalType: GrowingWindow
  mainMask: CallOutbound
  subject: DNAction
---
insensitivity: 0
name: ConsultCalls
```

---

```
notificationFrequency: 10
notificationMode: PERIODICAL
objectType: AGENT
statisticDefinitionEx:
  dynamicFilter: MediaType=voice
  category: TotalNumber
  dynamicTimeProfile: 0:00
  intervalType: GrowingWindow
  mainMask: CallConsult
  subject: DNAction
---
insensitivity: 0
name: MissedCalls
notificationFrequency: 10
notificationMode: PERIODICAL
objectType: AGENT
statisticDefinitionEx:
  dynamicFilter: MediaType=voice
  category: TotalNumber
  mainMask: CallForwarded
  subject: DNAction
  intervalType: SlidingWindow
  intervalLength: 999999
  dynamicTimeProfile: 3600:10
  distinguishByConnId: false
---
insensitivity: 0
name: ReadyDuration
notificationFrequency: 10
notificationMode: PERIODICAL
objectType: AGENT
statisticDefinitionEx:
  dynamicFilter: MediaType=voice
  category: TotalAdjustedTime
  dynamicTimeProfile: 0:00
  intervalType: GrowingWindow
  mainMask: WaitForNextCall
  subject: DNStatus
---
insensitivity: 0
name: WrapDuration
notificationFrequency: 10
notificationMode: PERIODICAL
objectType: AGENT
statisticDefinitionEx:
  dynamicFilter: MediaType=voice
  category: TotalAdjustedTime
  dynamicTimeProfile: 0:00
  intervalType: GrowingWindow
  mainMask: AfterCallWork
  relativeMask: AfterCallWork
  subject: DNStatus
---
insensitivity: 0
name: TalkDuration
notificationFrequency: 10
notificationMode: PERIODICAL
objectType: AGENT
statisticDefinitionEx:
  dynamicFilter: MediaType=voice
  category: TotalAdjustedTime
  dynamicTimeProfile: 0:00
  intervalType: GrowingWindow
```



```
mainMask: CallUnknown, CallConsult, CallInternal, CallOutbound, CallInbound
subject: DNAction
---
insensitivity: 0
name: HoldDuration
notificationFrequency: 10
notificationMode: PERIODICAL
objectType: AGENT
statisticDefinitionEx:
  dynamicFilter: MediaType=voice
  category: TotalAdjustedTime
  dynamicTimeProfile: 0:00
  intervalType: GrowingWindow
mainMask:
CallOnHoldInbound,CallOnHoldOutbound,CallOnHoldInternal,CallOnHoldConsult,CallOnHoldUnknown
subject: DNAction
---
insensitivity: 0
name: TimeInCurrentState
notificationFrequency: 10
notificationMode: PERIODICAL
objectType: AGENT
statisticDefinitionEx:
  dynamicFilter: MediaType=voice
  category: CurrentTime
mainMask: '*'
subject: DNStatus
---
features: api-multimedia-chat
insensitivity: 0
name: AverageHandlingTime_Chat
notificationFrequency: 10
notificationMode: PERIODICAL
objectType: AGENT
statisticDefinitionEx:
  dynamicFilter: ' MediaType=chat &
~PairExist("InteractionSubtype","InternalConferenceInvite")'
  category: AverageTime
  dynamicTimeProfile: 0:00
  intervalType: GrowingWindow
mainMask:
InteractionHandlingUnknown,Coaching,InteractionHandlingInternal,InteractionHandlingOutbound,InteractionHandling
relativeMask:
InteractionHandlingUnknown,Coaching,InteractionHandlingInternal,InteractionHandlingOutbound,InteractionHandling
subject: DNStatus
maskType: MEDIA
---
features: api-multimedia-email
insensitivity: 0
name: AverageHandlingTime_Email
notificationFrequency: 10
notificationMode: PERIODICAL
objectType: AGENT
statisticDefinitionEx:
  dynamicFilter: MediaType=email
  category: AverageTime
  dynamicTimeProfile: 0:00
  intervalType: GrowingWindow
mainMask:
InteractionHandlingUnknown,Coaching,InteractionHandlingInternal,InteractionHandlingOutbound,InteractionHandling
relativeMask:
InteractionHandlingUnknown,Coaching,InteractionHandlingInternal,InteractionHandlingOutbound,InteractionHandling
subject: DNStatus
```

---

```
    maskType: MEDIA
---
features: api-multimedia-chat
insensitivity: 0
name: Productivity_Chat
notificationFrequency: 10
notificationMode: PERIODICAL
objectType: AGENT
statisticDefinitionEx:
  dynamicFilter: ' MediaType=chat &
~PairExist("InteractionSubtype","InternalConferenceInvite")'
  category: AverageNumberPerRelativeHour
  dynamicTimeProfile: 0:00
  intervalType: GrowingWindow
  mainMask:
InteractionHandlingInbound,InteractionHandlingOutbound,InteractionHandlingInternal,Coaching,InteractionHandling
  relativeMask: '*,~Available,~NotAvailable'
  subject: DNStatus
  maskType: MEDIA
---
features: api-multimedia-email
insensitivity: 0
name: Productivity_Email
notificationFrequency: 10
notificationMode: PERIODICAL
objectType: AGENT
statisticDefinitionEx:
  dynamicFilter: MediaType=email
  category: AverageNumberPerRelativeHour
  dynamicTimeProfile: 0:00
  intervalType: GrowingWindow
  mainMask:
InteractionHandlingInbound,InteractionHandlingOutbound,InteractionHandlingInternal,Coaching,InteractionHandling
  relativeMask: '*,~Available,~NotAvailable'
  subject: DNStatus
  maskType: MEDIA
---
features: api-multimedia-chat
insensitivity: 0
name: InboundChats
notificationFrequency: 10
notificationMode: PERIODICAL
objectType: AGENT
statisticDefinitionEx:
  dynamicFilter: ' MediaType=chat &
~PairExist("InteractionSubtype","InternalConferenceInvite")'
  category: TotalNumber
  dynamicTimeProfile: 0:00
  intervalType: GrowingWindow
  mainMask: InteractionAccepted
  subject: DNAction
  maskType: MEDIA
---
features: api-multimedia-email
insensitivity: 0
name: InboundEmails
notificationFrequency: 10
notificationMode: PERIODICAL
objectType: AGENT
statisticDefinitionEx:
  dynamicFilter: MediaType=email
  category: TotalNumber
  dynamicTimeProfile: 0:00
```

---

```
intervalType: GrowingWindow
mainMask: InteractionAccepted
subject: DNAction
maskType: MEDIA
---
features: api-multimedia-chat
insensitivity: 0
name: ChatDuration
notificationFrequency: 10
notificationMode: PERIODICAL
objectType: AGENT
statisticDefinitionEx:
  dynamicFilter: ' MediaType=chat &
~PairExist("InteractionSubtype","InternalConferenceInvite")'
  category: TotalAdjustedTime
  dynamicTimeProfile: 0:00
  intervalType: GrowingWindow
  mainMask: InteractionHandlingUnknown, Coaching, InteractionHandlingInbound
  subject: DNAction
  maskType: MEDIA
---
features: api-multimedia-email
insensitivity: 0
name: EmailDuration
notificationFrequency: 10
notificationMode: PERIODICAL
objectType: AGENT
statisticDefinitionEx:
  dynamicFilter: MediaType=email
  category: TotalAdjustedTime
  dynamicTimeProfile: 0:00
  intervalType: GrowingWindow
  mainMask: InteractionHandlingUnknown, Coaching, InteractionHandlingInbound
  subject: DNAction
  maskType: MEDIA
---
features: api-multimedia-email
insensitivity: 0
name: TimeInCurrentEmail
notificationFrequency: 10
notificationMode: PERIODICAL
objectType: AGENT
statisticDefinitionEx:
  dynamicFilter: MediaType=email
  category: CurrentTime
  mainMask: '*'
  subject: DNStatus
  maskType: MEDIA
---
features: api-multimedia-twitter
insensitivity: 0
name: TimeInCurrentTwitter
notificationFrequency: 10
notificationMode: PERIODICAL
objectType: AGENT
statisticDefinitionEx:
  dynamicFilter: MediaType=twitter
  category: CurrentTime
  mainMask: '*'
  subject: DNStatus
  maskType: MEDIA
---
features: api-multimedia-facebook
```

```
insensitivity: 0
name: TimeInCurrentFacebook
notificationFrequency: 10
notificationMode: PERIODICAL
objectType: AGENT
statisticDefinitionEx:
  dynamicFilter: MediaType=facebook
  category: CurrentTime
  mainMask: '*'
  subject: DNStatus
  maskType: MEDIA
---
features: api-multimedia-workitem
insensitivity: 0
name: TimeInCurrentWorkitem
notificationFrequency: 10
notificationMode: PERIODICAL
objectType: AGENT
statisticDefinitionEx:
  dynamicFilter: MediaType=workitem
  category: CurrentTime
  mainMask: '*'
  subject: DNStatus
  maskType: MEDIA
---
features: api-multimedia-email
insensitivity: 0
name: OutboundEmails
notificationFrequency: 10
notificationMode: PERIODICAL
objectType: AGENT
statisticDefinitionEx:
  dynamicFilter: MediaType=email
  category: TotalNumber
  dynamicTimeProfile: 0:00
  intervalType: GrowingWindow
  mainMask: InteractionStartedOutbound
  subject: DNAction
  maskType: MEDIA
---
features: api-multimedia-chat
insensitivity: 0
name: TransferredChats
notificationFrequency: 10
notificationMode: PERIODICAL
objectType: AGENT
statisticDefinitionEx:
  dynamicFilter: ' MediaType=chat &
~PairExist("InteractionSubtype","InternalConferenceInvite")'
  category: TotalNumber
  dynamicTimeProfile: 0:00
  intervalType: GrowingWindow
  mainMask: TransferMade
  subject: DNAction
  maskType: MEDIA
---
features: api-multimedia-chat
insensitivity: 0
name: MissedChats
notificationFrequency: 10
notificationMode: PERIODICAL
objectType: AGENT
statisticDefinitionEx:
```

```
    dynamicFilter: ' MediaType=chat &
~PairExist("InteractionSubtype","InternalConferenceInvite")'
    category: TotalNumber
    dynamicTimeProfile: 0:00
    intervalType: GrowingWindow
    mainMask: InteractionRevoked
    subject: DNAction
    maskType: MEDIA
---
features: api-multimedia-chat
insensitivity: 0
name: RejectedChats
notificationFrequency: 10
notificationMode: PERIODICAL
objectType: AGENT
statisticDefinitionEx:
  dynamicFilter: ' MediaType=chat &
~PairExist("InteractionSubtype","InternalConferenceInvite")'
  category: TotalNumber
  dynamicTimeProfile: 0:00
  intervalType: GrowingWindow
  mainMask: InteractionRejected
  subject: DNAction
  maskType: MEDIA
---
features: api-multimedia-email
insensitivity: 0
name: TransferredEmails
notificationFrequency: 10
notificationMode: PERIODICAL
objectType: AGENT
statisticDefinitionEx:
  dynamicFilter: MediaType=email
  category: TotalNumber
  dynamicTimeProfile: 0:00
  intervalType: GrowingWindow
  mainMask: TransferMade
  subject: DNAction
  maskType: MEDIA
---
features: api-multimedia-email
insensitivity: 0
name: MissedEmails
notificationFrequency: 10
notificationMode: PERIODICAL
objectType: AGENT
statisticDefinitionEx:
  dynamicFilter: MediaType=email
  category: TotalNumber
  dynamicTimeProfile: 0:00
  intervalType: GrowingWindow
  mainMask: InteractionRevoked
  subject: DNAction
  maskType: MEDIA
---
features: api-multimedia-email
insensitivity: 0
name: RejectedEmails
notificationFrequency: 10
notificationMode: PERIODICAL
objectType: AGENT
statisticDefinitionEx:
  dynamicFilter: MediaType=email
```

```
category: TotalNumber
dynamicTimeProfile: 0:00
intervalType: GrowingWindow
mainMask: InteractionRejected
subject: DNAction
maskType: MEDIA
---
features: api-multimedia
insensitivity: 0
name: ReadyDuration_Email
notificationFrequency: 10
notificationMode: PERIODICAL
objectType: AGENT
statisticDefinitionEx:
  dynamicFilter: MediaType=email
  category: TotalAdjustedTime
  dynamicTimeProfile: 0:00
  intervalType: GrowingWindow
  mainMask: Available
  subject: DNStatus
  maskType: MEDIA
---
features: api-multimedia-chat
insensitivity: 0
name: ReadyDuration_Chat
notificationFrequency: 10
notificationMode: PERIODICAL
objectType: AGENT
statisticDefinitionEx:
  dynamicFilter: MediaType=chat
  category: TotalAdjustedTime
  dynamicTimeProfile: 0:00
  intervalType: GrowingWindow
  mainMask: Available
  subject: DNStatus
  maskType: MEDIA
---
insensitivity: 0
name: ServiceLevel
notificationFrequency: 10
notificationMode: PERIODICAL
objectType: QUEUE
saveHistory: false
statisticDefinitionEx:
  dynamicFilter: MediaType=voice
  category: ServiceFactor1
  subject: DNAction
  intervalType: SlidingWindow
  intervalLength: 999999
  dynamicTimeProfile: 3600:10
  timeRangeLeft: 0
  timeRangeRight: 120
  timeRangeLeft2: 0
  timeRangeRight2: 10
---
insensitivity: 0
name: ServiceLevel
notificationFrequency: 10
notificationMode: PERIODICAL
objectType: SKILL_Q
saveHistory: false
statisticDefinitionEx:
  dynamicFilter: MediaType=voice
```

```
category: ServiceFactor1
subject: DNAction
intervalType: SlidingWindow
intervalLength: 9999999
dynamicTimeProfile: 3600:10
timeRangeLeft: 0
timeRangeRight: 120
timeRangeLeft2: 0
timeRangeRight2: 10
---
insensitivity: 0
name: Current_In_Queue
notificationFrequency: 10
notificationMode: PERIODICAL
objectType: SKILL_Q
statisticDefinitionEx:
  dynamicFilter: MediaType=voice
  category: CurrentNumber
  subject: DNAction
  mainMask: CallWait
---
features: api-multimedia-chat
insensitivity: 0
name: TransferredChatsToQueue
notificationFrequency: 10
notificationMode: PERIODICAL
objectType: AGENT
statisticDefinitionEx:
  dynamicFilter: ' PairExists("IW_RoutingBasedRequestType", "InitTransfer") & MediaType=chat'
  category: TotalNumber
  dynamicTimeProfile: 0:00
  intervalType: GrowingWindow
  mainMask: InteractionHandlingInbound, InteractionHandlingInternal,
InteractionHandlingOutbound
  subject: DNAction
  maskType: MEDIA
---
features: api-multimedia-email
insensitivity: 0
name: TransferredEmailsToQueue
notificationFrequency: 10
notificationMode: PERIODICAL
objectType: AGENT
statisticDefinitionEx:
  dynamicFilter: ' PairExists("IW_RoutingBasedRequestType", "InitTransfer") & MediaType=email'
  category: TotalNumber
  dynamicTimeProfile: 0:00
  intervalType: GrowingWindow
  mainMask: InteractionHandlingInbound, InteractionHandlingInternal,
InteractionHandlingOutbound
  subject: DNAction
  maskType: MEDIA
```

### Web Services Node Configuration

The value of the `nodeId` property must be set in the `server-settings.yaml` file. The value of this option must be a unique identifier for each node in a Web Services cluster. All nodes that share the same Cassandra storage read the contact centers that require statistics and divide the monitoring tasks among the nodes.

### Statistics Time-to-Live

You can define the time-to-live for statistic storage in `server-settings.yaml` file by using the `statisticsTTL` property. If this optional parameter is not defined, the default value of 86400 (24 hours) is used. This property defines the interval of time for which the value of the statistics are stored.

### KPIs

To display statistics (KPIs) in the **My Statistics** tab of the Workspace interface, you must specify at least one statistic in the `kpi.displayed-kpis` option.

#### Important

The statistics and KPIs that are in the **statistics.yaml** file are the only statistics and KPIs that are currently supported by Workspace. Contact your Genesys Sales Representative or Genesys Customer Service to add statistics to the **statistics.yaml** file.

### Example

The following is an example of how to specify the `InboundCalls` statistic for display:

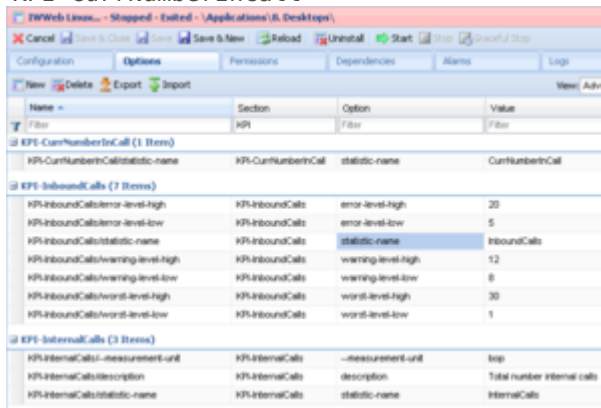
1. Choose a statistic from the **statistics.yaml** file that you want to display, such as `InboundCalls`.
2. Create a section in the `WS_Cluster` application object by using Genesys Administrator Extension (or Configuration Manager) such as `KPI-InboundCalls`
3. Create an option in the section called `statistic-name`.
4. Assign `InboundCalls` as the value.
5. (Optional) You can create other options in the section to specify a display name, such as `description` with the value as `Total number inbound calls`.  
The attributes that you can specify include:
  - `statistic-name`(mandatory)
  - `target-value`
  - `warning-level-low`
  - `warning-level-high`
  - `error-level-low`
  - `error-level-high`
  - `worst-value-low`
  - `worst-value-high`



- **statistic-type** — possible values are: duration, number. If statistic-type isn't specified, the default type is number excepted if the statistics name includes the duration keyword.
- **measurement-unit** — an optional display value.

Refer to [Setting the Warning, Error, and Worst Levels](#) for more information about how to use the target, warning, error, and worst attributes.

- Repeat steps 1 through 5 for each statistic that you want to use.
- In the interaction-workspace section in the WS\_Cluster application, specify the name of the section that you created in Step 2 as one of the values of the `kpi.displayed-kpis` option. The value of this option is a coma-separated list of section names defined in the WS\_Cluster application. Specify the statistics in the order in which you want the statistics to be displayed in the Workspace interface. For example: KPI-InternalCalls,KPI-OutboundCalls,KPI-InboundCalls,KPI-CurrentTargetState,KPI-CurrNumberInCall



The screenshot shows the WS\_Cluster application configuration interface. It displays a table with columns: Name, Section, Option, and Value. The table is organized into sections: KPI-CurrNumberInCall (1 item), KPI-InboundCalls (7 items), and KPI-InternalCalls (3 items). The KPI-InboundCalls section is expanded, showing various statistics and their values.

Name	Section	Option	Value
KPI-CurrNumberInCall	KPI	Filter	Filter
KPI-CurrNumberInCall	KPI-CurrNumberInCall	statistic-name	CurrNumberInCall
KPI-InboundCalls	KPI-InboundCalls	error-level-high	20
KPI-InboundCalls	KPI-InboundCalls	error-level-low	5
KPI-InboundCalls	KPI-InboundCalls	statistic-name	InboundCalls
KPI-InboundCalls	KPI-InboundCalls	warning-level-high	12
KPI-InboundCalls	KPI-InboundCalls	warning-level-low	8
KPI-InboundCalls	KPI-InboundCalls	worst-level-high	30
KPI-InboundCalls	KPI-InboundCalls	worst-level-low	1
KPI-InternalCalls	KPI-InternalCalls	measurement-unit	log
KPI-InternalCalls	KPI-InternalCalls	description	Total number internal calls
KPI-InternalCalls	KPI-InternalCalls	statistic-name	InternalCalls

Example of the KPI-InboundCalls section

## Contact Center Statistics

To display contact center statistics in the **Contact Center Statistics** tab of the Workspace Web Edition interface, you must specify at least one statistic in the `statistics.displayed-statistics` option.

### Important

The statistics and KPIs that are in the **statistics.yaml** file are the only statistics and KPIs that are currently supported by Workspace. Contact your Genesys Sales Representative or Genesys Customer Service to add statistics to the **statistics.yaml** file.

### Example

The following is an example of how to specify the AverageWaitingTime statistic for display:

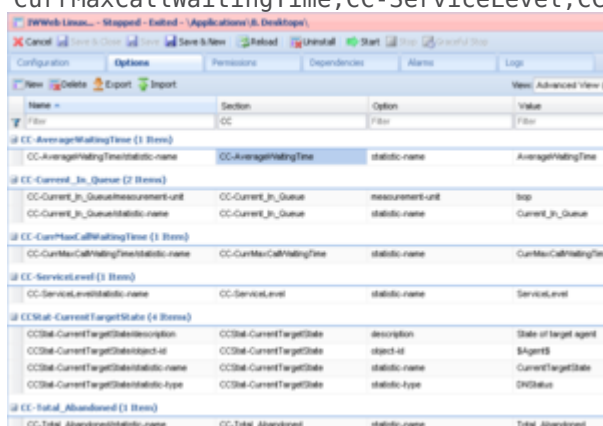
- Choose a statistic from the **statistics.yaml** file that you want to display, such as InboundCalls.

2. Create a section in the WS\_Cluster application object by using Genesys Administrator Extension (or Configuration Manager) such as CC-AverageWaitingTime
3. Create an option in the section called statistic-name.
4. Assign AverageWaitingTime as the value.
5. (Optional) You can create other options in the section to specify a display name, such as description with the value as Average Customer Wait Time.  
The attributes that you can specify include:

- statistic-name(mandatory)
- target-value
- warning-level-low
- warning-level-high
- error-level-low
- error-level-high
- worst-value-low
- worst-value-high
- statistic-type — possible values are: duration, number. If statistic-type isn't specified, the default type is number excepted if the statistics name includes the duration keyword.
- measurement-unit — an optional display value.

Refer to [Setting the Warning, Error, and Worst Levels](#) for more information about how to use the target, warning, error, and worst attributes.

6. Repeat steps 1 through 5 for each statistic that you want to use.
7. In the interaction-workspace section in the WS\_Cluster application, specify the name of the section that you created in Step 2 as one of the values of the statistics.displayed-statistics option. The value of this option is a coma-separated list of section names defined in the WS\_Cluster application. Specify the statistics in the order in which you want the statistics to be displayed in the Workspace interface. For example: CC-AverageWaitingTime,CC-Current\_In\_Queue,CC-CurrMaxCallWaitingTime,CC-ServiceLevel,CC-Total\_Abandoned,CC-Total\_Answered



Name	Section	Option	Value
CC-AverageWaitingTime (1 item)			
CC-AverageWaitingTime:statistic-name	CC-AverageWaitingTime	statistic-name	AverageWaitingTime
CC-Current_In_Queue (2 items)			
CC-Current_In_Queue:measurement-unit	CC-Current_In_Queue	measurement-unit	sec
CC-Current_In_Queue:statistic-name	CC-Current_In_Queue	statistic-name	Current_In_Queue
CC-CurrMaxCallWaitingTime (1 item)			
CC-CurrMaxCallWaitingTime:statistic-name	CC-CurrMaxCallWaitingTime	statistic-name	CurrMaxCallWaitingTime
CC-ServiceLevel (1 item)			
CC-ServiceLevel:statistic-name	CC-ServiceLevel	statistic-name	ServiceLevel
CC-Stat-CurrentTargetState (4 items)			
CC-Stat-CurrentTargetState:description	CC-Stat-CurrentTargetState	description	State of target agent
CC-Stat-CurrentTargetState:object-id	CC-Stat-CurrentTargetState	object-id	\$AgentID
CC-Stat-CurrentTargetState:statistic-name	CC-Stat-CurrentTargetState	statistic-name	CurrentTargetState
CC-Stat-CurrentTargetState:statistic-type	CC-Stat-CurrentTargetState	statistic-type	DNStatus
CC-Total_Abandoned (1 item)			
CC-Total_Abandoned:statistic-name	CC-Total_Abandoned	statistic-name	Total_Abandoned

Example of the CC-AverageWaitingTime section

8. Specify the queue group, agent group, routing point, and/or virtual queue for which you want statistics reported by using the following options:
  - statistics.queue-groups

- `statistics.agent-groups`
  - `statistics.routing-points`
  - `statistics.virtual-queues`
9. Use the `permissions.agent-group.exclude` option to specify the list of agent groups or virtual agent groups to be excluded from Statistics, or use the `permissions.agent-group.restrict` option to specify the list of agent groups or virtual agent groups to which Statistics are restricted.
  10. Specify the refresh time, in seconds, for the statistics in the **Contact Center Statistics** tab by using the `statistics.refresh-time` option.

## Setting the Warning, Error, and Worst Levels

Workspace provides eight non-mandatory options that you can use to define low and/or high levels of warning and error and low and/or high levels of worst values.

Some statistics are in an error state when they are below a certain value, while others are in an error state when they are above a certain value; for some statistics both a lower error threshold and a higher error threshold are required. The following non-mandatory options enable you to set a low and high threshold for a statistic:

- `error-level-low`—Values below this value are in an error state for the statistic.
- `error-level-high`—Values above this value are in an error state for the statistic.

Some statistics are in a warning state when they are below a certain value, while others are in a warning state when they are above a certain value; for some statistics both a lower warning threshold and a higher warning threshold are required. The following non-mandatory options enable you to set a low and high threshold for a statistic:

- `warning-level-low`—Values below this value are in a warning state for the statistic.
- `warning-level-high`—Values above this value are in a warning state for the statistic.

Use the error and warning options to specify ranges that are most suitable for the statistic.

Some statistics are performance based. The agent's result is compared to a target value to determine the agent's level of performance. Some statistics require a lower worst value and some require a higher worst value. For some statistics, both a lower and a higher worst value are required.

- `worst-value-low`—Values below this value result in a negative evaluation for the KPI.
- `worst-value-high`—Values above this value result in a negative evaluation for the KPI.
- `target-value`—The target value to be reached by the agent.
- `evaluation-display`—Specifies which value is displayed to the agent, a performance indicator or the raw statistic in the format of the statistic (for example, number, date, or percentage). If the option is set to `Result`, the actual statistic value is displayed. If the option is set to `Evaluation`, the performance of the agent is calculated by using the following formulae:

If the statistic value is lower than the target value, the following evaluation is applied: Agent

Performance = (Agent Result - worst-value-low) / (Target Value -worst-value-low) x 100 or: If the statistic value is higher than the target value, the following evaluation is applied: Agent Performance = (worst-value-high - Agent Result) / (worst-value-high - Target Value) x 100

## Example of a Statistics Configuration file for Workspace

The following is an example of a configuration (.cfg) file that is related to a statistics configuration for the options in a WS\_Cluster object that was exported from Configuration Manager:

### [+] statistics-kpi.cfg

```
[CC-AverageWaitingTime]
statistic-name=AverageWaitingTime

[CC-Current_In_Queue]
statistic-name=Current_In_Queue

[CC-CurrMaxCallWaitingTime]
statistic-name=CurrMaxCallWaitingTime

[CC-ServiceLevel]
statistic-name=ServiceLevel

[CC-Total_Abandoned]
statistic-name=Total_Abandoned

[CC-Total_Answered]
error-level-high=15
error-level-low=2
statistic-name=Total_Answered
warning-level-high=10
warning-level-low=4

[CCStat-CurrentTargetState]
statistic-name=CurrentTargetState
statistic-type=DNStatus

[interaction-workspace]
kpi.displayed-kpis=KPI-InternalCalls,KPI-OutboundCalls,KPI-InboundCalls,KPI-
CurrentTargetState,KPI-CurrNumberInCall
statistics.displayed-statistics=CC-AverageWaitingTime,CC-Current_In_Queue,CC-
CurrMaxCallWaitingTime,CC-ServiceLevel,CC-Total_Abandoned,CC-Total_Answered,CCStat-
CurrentTargetState

[KPI-CurrentTargetState]
statistic-name=CurrentTargetState

[KPI-CurrNumberInCall]
statistic-name=CurrNumberInCall

[KPI-InboundCalls]
error-level-high=15
error-level-low=2
statistic-name=InboundCalls
warning-level-high=10
warning-level-low=4

[KPI-InternalCalls]
```

```
statistic-name=InternalCalls  
[KPI-OutboundCalls]  
statistic-name=OutboundCalls
```

### Stat Server Configuration

Any Stat Server application in a Genesys environment to which the Web Services node/cluster will connect must include a set of statistic definitions that match those that are specified in the **statistics.yaml** file.

- Only **Agent Statistics** should be specified for KPIs.
- Only **Queue Statistics** should be specified for Contact Center Statistics.

### Statistics Gadget

The Workspace Statistics Gadget enables your agents to constantly monitor key statistics that you specify. You can specify one or more statistics to be displayed to the agent at all times in the Main Menu bar of the Workspace window.

The Contact Center Statistics and My Statistics tabs enable agents to view all the statistics and KPIs that you define; however, to view these, the agent must open those tabs, which temporarily hides the rest of the Workspace window.

Refer to the Workspace Help for information about using the **Statistic Gadget**.

Use the `statistics.gadget-statistics` option to specify a section or sections that contain a statistic or statistics to be displayed in the Statistics Gadget. If more than one statistic is specified, the first one is displayed by default. The others can be displayed by hovering the mouse pointer over the gadget or by clicking the gadget to open a menu that enables selection of a different statistic.

Use the `statistics.gadget-statistics.max-size` option to specify the maximum number of statistics that can be displayed in the Statistics Gadget. If you specify a number of statistics in the **statistics.gadget-statistics** option that exceeds this number, only the first *n* statistics are displayed.

### Configuring the `statistics.gadget-statistics` option

The `statistics.gadget-statistics` option enables you to specify statistic sections to be displayed. The section should contain the name of the statistics definition, specified by the `statistic-definitions` option and the list of objects for which the statistic should be displayed (in the `object-ids` option) and the type of the object (in the `object-type` option). The list of objects in `object-ids` should all be from the same type (for example, Agent Groups), and this type of object should be specified in the `object-type` option.

You can also specify the following options in the statistic section to add the name and the type of the statistic:

- `object-ids`: The ids of Agent Groups, Virtual Queues, DN Groups, and Routing Points

- object - type: Statistics can be displayed for five different types of objects:
  - Agent Group — Statistics for an agent group or virtual agent group
  - Routing Point — Statistics for a Routing Point
  - Virtual Queue — Statistics for a Virtual Queue
  - Queue Group — Statistics for a Group of DNs

Valid values for this option are the names of sections that you have defined that contain the definitions of statistics, such as the name of the statistic, the name of the object for which the statistic is calculated, object type, object id, and so on.

- Agent Statistic — If the statistic section is defined only with a statistic-name option, the statistic is considered as a statistic for the currently logged-in agent.
- Routing Point Statistic — The statistic section is defined with the object-type option as RoutingPoint.
- Virtual Queue Statistic — The statistic section is defined with the object-type option as VirtualQueue.
- Queue Group Statistic — The statistic section is defined with the object-type option as QueueGroup.
- Agent Group Statistic — The statistic section is defined with the object-type option as AgentGroup.

The screenshot shows the 'PROVISIONING' tab in the configuration interface. The left sidebar lists various configuration areas like Environment, Applications, Hosts, etc. The main pane shows the configuration for 'Agent Group' (AgentGroup). A table lists various statistics and their configurations. Key items are circled in red:

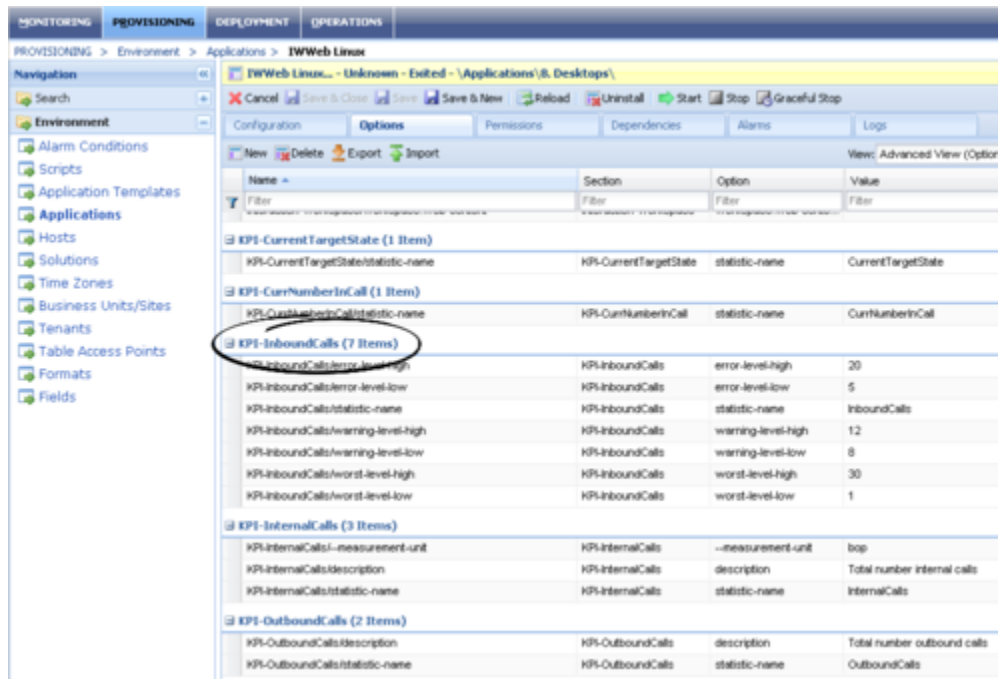
- AO\_Stats (3 Items)**: A group of statistics for the Agent Group.
- CC-Total\_Answered (1 Item)**: A specific statistic for the Agent Group.
- CC-Total\_Answered (7 Items)**: A group of statistics for the Agent Group.

Name	Section	Option	Value
AO_Stats (3 Items)	AO_Stats	object-id	Agent Group SP One
AO_Stats (3 Items)	AO_Stats	object-type	AgentGroup
AO_Stats (3 Items)	AO_Stats	statistic-definitions	CC-Total_Answered, CC-Total_Abandoned
CC-AverageWaitingTime (1 Item)	CC-AverageWaitingTime	statistic-name	AverageWaitingTime
CC-Current_In_Queue (2 Items)	CC-Current_In_Queue	measurement-unit	top
CC-Current_In_Queue (2 Items)	CC-Current_In_Queue	statistic-name	Current_In_Queue
CC-CurrMaxCallWaitingTime (1 Item)	CC-CurrMaxCallWaitingTime	statistic-name	CurrMaxCallWaitingTime
CC-ServiceLevel (1 Item)	CC-ServiceLevel	statistic-name	ServiceLevel
CCStat-CurrentTargetState (4 Items)	CCStat-CurrentTargetState	statistic-name	ServiceLevel
CC-Total_Abandoned (1 Item)	CC-Total_Abandoned	statistic-name	Total_Abandoned
CC-Total_Answered (7 Items)	CC-Total_Answered	error-level-high	20
CC-Total_Answered (7 Items)	CC-Total_Answered	error-level-low	5
CC-Total_Answered (7 Items)	CC-Total_Answered	statistic-name	Total_Answered
CC-Total_Answered (7 Items)	CC-Total_Answered	warning-level-high	12
CC-Total_Answered (7 Items)	CC-Total_Answered	warning-level-low	8
CC-Total_Answered (7 Items)	CC-Total_Answered	worst-level-high	30
CC-Total_Answered (7 Items)	CC-Total_Answered	worst-level-low	1

Workspace tests if the configured objects exist in the configuration layer. If a statistic is defined for an object that does not exist, the configured statistic is not displayed.

You can also create sections that collect a group of related statistics to make it easier to specify which statistics can be displayed. For example, you might want to display two statistics (CC-Total\_Answered and CC-Total\_Abandoned statistics) for an agent group object and one (KPI-

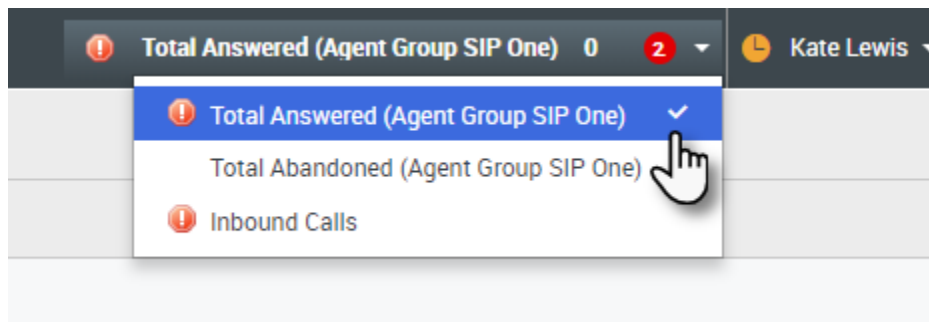
InboundCalls) for the current agent. The following two figures show how this is configured in Genesys Administrator Extension.



To display CC-Total\_Answered and CC-Total\_Abandoned statistics for the agent group to which the agent belongs create a new section and add these two statistics as values:

```
[AG_Stats]
object-ids=AG1, AG2
object-type=AgentGroup
statistic-definitions=CC-Total_Answered,CC-Total_Abandoned
```

Next, assign the value AG\_Stats,KPI-InboundCalls to the **statistics.gadget-statistics** option. The three statistics are then available in the Workspace Main Menu bar.



You can use the `permissions.agent-group.exclude` or `permissions.agent-group.restrict` options to further refine which statistics are displayed in the Statistics Gadget and the Contact Center Statistics tab.