



## **Reporting Technical Reference**

### 7.6 Customization

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## Preface

Welcome to the *Reporting Technical Reference 7.6 Customization*. This document introduces you to the concepts, terminology, and procedures that are relevant to reporting within a Genesys environment.

This guide is valid only for the Reporting 7.6 release(s).

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Note: For versions of this document created for other releases of this product, visit the Genesys Technical Support website, or request the Documentation Library DVD, which you can order by e-mail from Genesys Order Management at [orderman@genesyslab.com](mailto:orderman@genesyslab.com).

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This preface contains the following sections:

- [Intended Audience, page 7](#)
- [Making Comments on This Document, page 8](#)
- [Contacting Genesys Technical Support, page 8](#)
- [Document Change History, page 8](#)

For information about related resources and about the conventions that are used in this document, see the supplementary material starting on [page 106](#).

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## Intended Audience

This document is primarily intended for [list primary and secondary audience for this document]. It has been written with the assumption that you have a basic understanding of:

- Computer-telephony integration (CTI) concepts, processes, terminology, and applications
- Network design and operation
- Your own network configurations

You should also be familiar with database technology.

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## Document Change History

This section lists topics that are new or that have changed significantly since the first release of this document.

- All technical references to Hyperion reports were replaced with SAP Crystal Reports.
- In accordance with the updates to the product, the following chapters from earlier versions of this document were removed:
  - “Selecting Existing Data for a Custom Report”
  - “Adding Custom Metrics to a CC Analyzer Report”
  - “Creating Custom Report Layouts”
  - “Loading and Aggregating Data”

## 1

## What Components Can You Customize?

You can customize more than just the CC Analyzer and CCPulse+ reports that are provided with Solution Reporting. The flexibility that is inherent in the Genesys Reporting Model enables you to design your own the SAP Crystal Reports, create custom report layouts that are based on your own Data Sourcer layout templates, configure custom statistical parameters, and more.

This chapter provides an overview of the points of customization and includes the following sections:

- [Points of Customization, page 9](#)
- [Overview of the Customization Exercises, page 10](#)
- [Customization Guidelines, page 12](#)

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## Points of Customization

[Figure 1](#) illustrates the Historical Solution Reporting Model and its points of customization. Many of these points—those that fall within the Data Collection and Data Mart Services—are customization points for CCPulse+ (the Real-Time Reporting tool) as well, especially where metrics have been associated or paired with an historical equivalent. Refer to the *Overview* book of the *Reporting Technical Reference* series for the composition of the Data Collection, Data Mart, and Information Delivery Services. Each of the chapters that follow focuses on one particular customization point and provides examples of how to achieve its end.

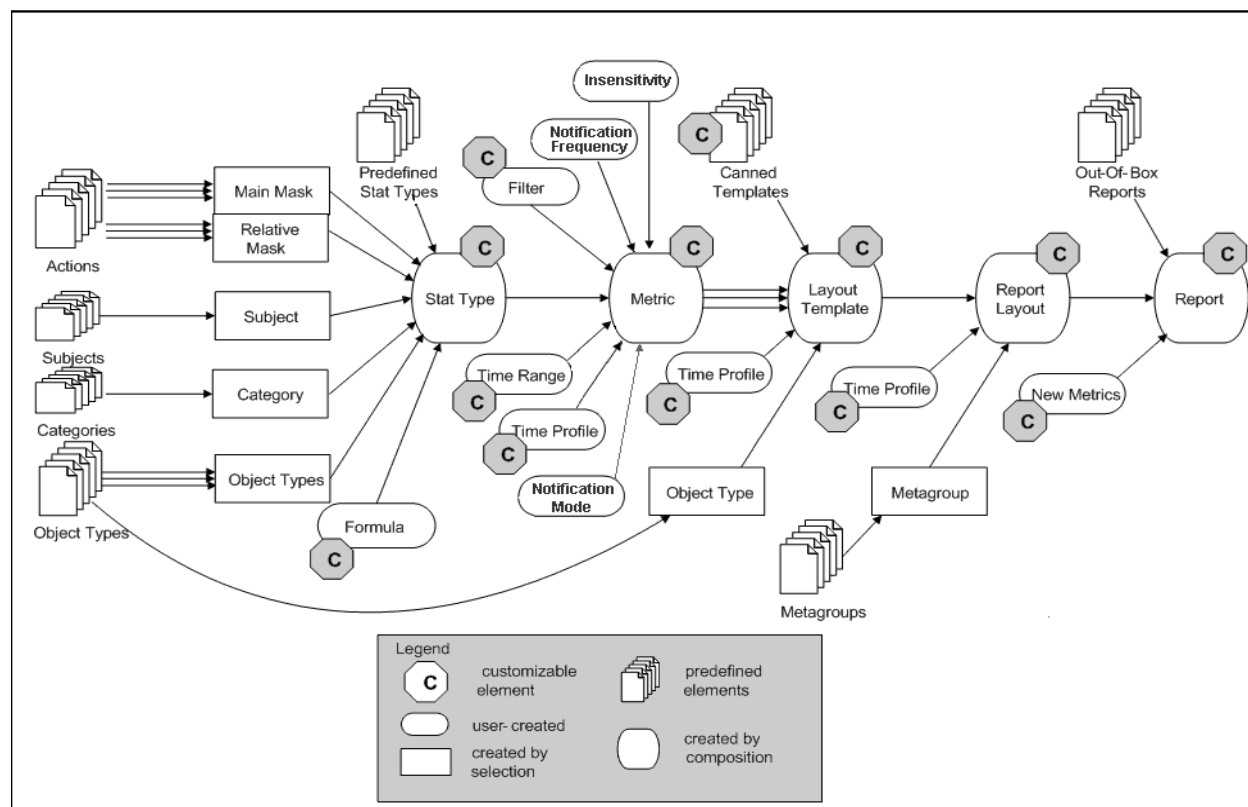


Figure 1: Points of Customization in the Genesys Historical Solution Reporting Model

Note: Source-timestamp functionality and media type (business attribute) is also part of a stat type's definition and is not reflected in [Figure 1](#).

## Overview of the Customization Exercises

The two exercises in this document have been designed to illustrate practical contact center operations. They are independent of each another. Furthermore, they are not necessarily presented in the order in which you would customize elements in your environment. Instead, they are fashioned to illustrate fully one or more specific points of customization. More than one example may be provided within a chapter to drive home a particular point or to illustrate more than one method to reach the same end result.

### Exercise 1

The first exercise illustrates several points of customization to create a report that summarizes the revenue that is generated by inbound calls that agents receive. In this exercise, we create a custom stat type, a custom formula, three custom filters, four custom statistics, a custom layout template, a custom report layout, and finally, a custom report.

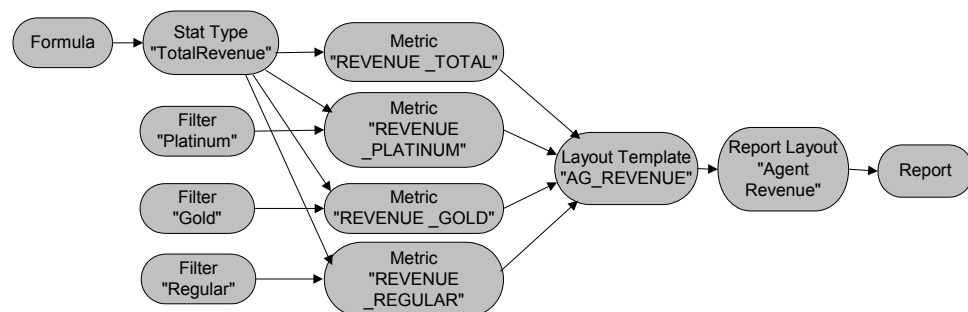
The following is a description of the environment for this exercise:

- A contact center is working as a service provider in a multi-tenant environment; one of the tenants is Touch Point Communications, Inc.
- This tenant comprises of agents who are organized into four groups: Accounting, Receptionists, Sales, and Support.
- Agents from the Sales group process inbound calls and might generate revenue during the calls.
- The contact center application is designed as follows:
  - When an inbound call arrives at the contact center, an application determines the type of calling customer. It does so by extracting the customer number (from the ANI attribute) from the call and checking it against the customer database. If the customer exists in the database, the application determines the customer type by the dollar amount that is associated with the customer's account. Based on this dollar amount, customers are labeled either Platinum, Gold, or Regular. If the customer does not exist in the database, the type defaults to Regular. Customer type is manifested by attaching a TKV pair to the call ("CS", "Value"). An example of such a TKV pair is ("CS", "Gold").
  - Next, Genesys Router routes the call to the desktop of an available agent who is most appropriate for the customer type.
  - The agent processes the call and tries to sell goods and/or services to the customer. In other words, the agent generates revenue during the call. The agent desktop application codes the amount of revenue that the agent generated as a TKV pair ("Revenue", "Value") attached to the call. An example of a TKV pair is ("Revenue", 278.05), which means that the agent generated \$278.05 during the call. The TKV pair, ("Revenue", 0) means that no revenue was generated.

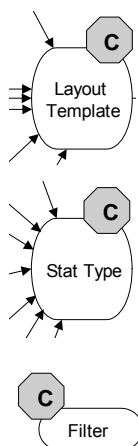
The objective is to prepare a report that answers the following question:

How much revenue did each of the three agents in the Sales group—Joseph Cotten, Cindy Crawford, and Jeanne Crain—generate for specified days, for each customer type, and for all customers?

To generate such a report, we shall use the schema that is shown in [Figure 2](#). None of the Genesys-provided reports yields revenue-based results, so we must design both our own results and our own reports.

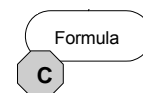


**Figure 2: Schema for Generating an Agent Revenue Report**



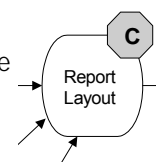
The cornerstone of this design is a new layout template, AG\_REVENUE, which is described in [Chapter 5](#). This template must contain four metrics; one for each of the three customer types, and a fourth to capture revenue for all customers. These metrics are named REVENUE\_PLATINUM, REVENUE\_GOLD, REVENUE\_REGULAR, and REVENUE\_TOTAL, respectively. [Chapter 6](#) illustrates this customization point.

To create these custom metrics, we shall first create a new stat type—Total Revenue—that calculates total revenue. This is accomplished in [Chapter 2](#). This custom stat type requires a custom formula to calculate sales revenue (see [Chapter 3](#)).



In addition, we shall create custom filters for each customer type: Platinum, Gold, and Regular—one for each metric. ([Chapter 4](#) covers this customization example.) The REVENUE\_TOTAL metric does not filter any calls and requires no custom filter.

Finally, the AG\_REVENUE layout template is used to build the Agent Revenue report layout in DMA (see [Chapter 7](#)).



## Exercise 2

The second exercise demonstrates real-time report creation for open media. The exercise illustrates how to create custom CCPulse+ templates and associate historical metrics to their real-time counterparts. Some points of customization (filters, stat types, layout templates, and report layouts) are repeated to complete the exercise.

## Customization Guidelines

Defining custom metrics correctly before any report that is based on them goes into the production environment is a critical task. Therefore, Genesys recommends that you first stage report customization in a lab by using Data Sourcer and Stat Server only. Create a report layout that is *not* based on any layout template, and use it to verify that values that are generated from using the new metric are correct. You can view the calculated values by using the Data Modeling Assistant (DMA). Then, create a layout template that is based on the verified statistical parameter definitions.

## Fine-Tuning Configuration

If report values differ from those that you expected, fine-tune configuration by doing any of the following:

- Adjusting the StatType definition
- Applying a filter
- Revisiting the call flow

After you have reviewed and verified the metrics—a process that can take several days—create a layout template that contains all of the required metrics.

## Bringing a New Layout Template into Production

To bring the new layout template into production:

1. Export the template into an XML document.
2. Import the XML document into your production environment.

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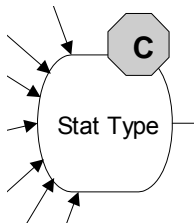
Note: When you use custom metrics, you might need to adjust your routing strategy to attach the data that is required by the new metric.

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## 2

## Creating Custom Stat Types



This chapter illustrates the second customization point of the Historical Solution Reporting Model that is shown in Figure 1 on [page 10](#): stat type creation. Genesys provides about 300 predefined stat types that are used to structure data collection for the Genesys-provided solution reports, but you can customize these stat types or build your own to have Data Sourcer collect different data. The *Solution Reporting Templates* book of the *Reporting Technical Reference* series describes these and other components of the Genesys-provided reports.

For this exercise, we use Data Modeling Assistant (DMA) as the user-interface tool. Incidentally, you can also configure stat types directly within the Stat Server application in Configuration Manager; however, for reasons that are described in the [Appendix](#), this chapter focuses on using the Stat Type Constructor dialog box with DMA to accomplish the task. Data Sourcer, connected to a Stat Server application, plays a role in the background to write configuration changes to ODS and Configuration Server.

This chapter includes the following sections:

- [Our Custom Stat Type: TotalRevenue, page 16](#)
- [Defining a Custom Stat Type by Using DMA, page 16](#)
- [Defining Stat Types by Using Configuration Manager, page 19](#)

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Note: For information on generating and customizing historical views in CCPulse+, refer to the *Reporting 7.5 CCPulse+ Help*.

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## Our Custom Stat Type: TotalRevenue

The problem statement of the Agent Revenue exercise, which is described on [page 10](#), questions *how much revenue was generated*. Although revenue is core to nearly every business, revenue is not an industry-wide metric that is inherent in switches, telephony servers, routers, and so on. In contact center terms, revenue is considered to be user data; it must be custom-configured within your environment in order to be captured and affiliated with interactions. This T-Server configuration is beyond the scope of this exercise—we begin with an environment that already captures revenue by using the key-value pair (“Revenue”, “Value”) that is attached to calls that agents handle. Our custom stat type will calculate the statistic’s total value when inbound calls are handled by any contact center object at which an agent might be stationed. We name this stat type Total Revenue.

---

## Defining a Custom Stat Type by Using DMA

To create the Total Revenue stat type:

1. Open DMA and select your Data Sourcer application.
2. In the Statistical Parameters section, click Statistical Types to display the stat types that are defined to ODS.
3. Right-click in the stat types folder list, and select New from the context menu that appears. The StatType Constructor dialog box opens.
4. Define this new stat type, as shown in [Figure 3](#).
  - a. In the Name field, type Total Revenue.
  - b. In the Category list box, select Total CustomValue—we want to calculate a sum of the custom user-data values.
  - c. In the Formula field, invoke the Custom Formula Constructor dialog box to define a custom formula. (This touches upon another point of customization in the Historical Solution Reporting Model. Follow the steps described in [Chapter 3](#), beginning on [page 21](#).)
  - d. In the Subject list box, select DNAction. A statistic that is based on this stat type will be triggered from the actions that occur at directory numbers.
  - e. In the Objects frame, select Agent from the list box, and mark all objects in the RegDN compatibility group.

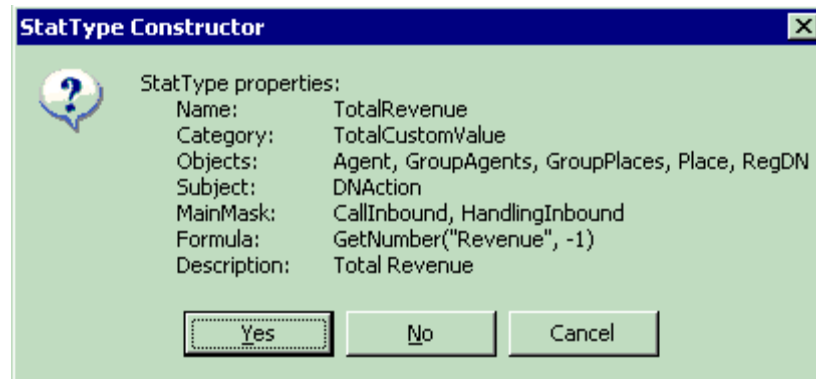
**Tip:** Even though we are interested only in the Agent object, selecting all RegDN-compatible objects will make this stat type reusable and applicable for other Solution Reporting applications, such as CCPulse+.

The **StatType Constructor** dialog box is shown with the following configuration:

- Name:** TotalRevenue
- Category:** TotalCustomValue
- Formula:** (empty field with a  $\Sigma$  button)
- Subject:** DNAction
- Objects:**
  - Agent (selected in dropdown)
  - Agent (checked)
  - GroupAgents (checked)
  - GroupPlaces (checked)
  - Place (checked)
  - RegDN (checked and highlighted)
  - Distinct by ConnID (unchecked)
- Actions:**
  - Main mask (selected in dropdown)
  - CallHeld (unchecked)
  - CallInbound (checked and highlighted)
  - CallInboundStarted (unchecked)
  - CallInternal (unchecked)
  - CallInternalStarted (unchecked)
  - CallObservedConsult (unchecked)
  - CallObservedInbound (unchecked)
  - Reverse selection (unchecked)
- Description:** Total Revenue
- Buttons:** OK, Cancel

**Figure 3: Creating a New Stat Type**

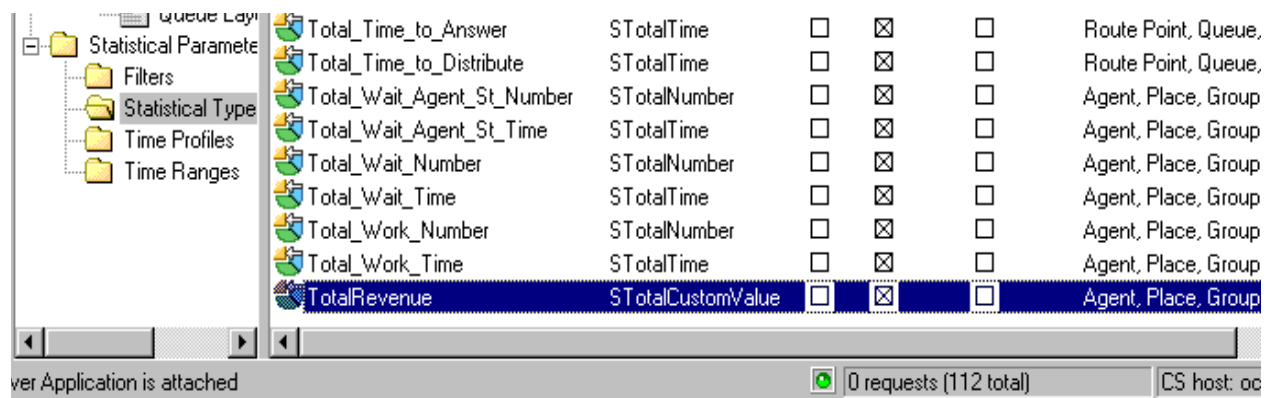
- f. In the Actions frame, select CallInbound and HandlingInbound as the main masks for this stat type. Both are durable actions; we want to calculate total revenue that pertains to all inbound interactions.
- g. In the Description frame, type an appropriate description.
5. Click OK to save the stat type.
6. DMA requests confirmation of this configuration change (see [Figure 4](#)); click Yes.



**Figure 4: New Statistical Type**

Note that we did not mark the Distinct by ConnID check box in the Objects frame (Figure 3). Keeping this box cleared ensures that the value from the Revenue TKV pair is collected for each CallInbound durable action. Several CallInbound durable actions can occur during one inbound call, so the formula extracts the revenue value several times during the call. This is the desired behavior. As you know, the revenue value is generated at the end of the call; therefore, the first occurrence of each CallInbound action yields a zero value; and only the last occurrence may yield a nonzero value. If you distinguish CallInbound actions by ID, only the first occurrence of a CallInbound action is considered, which would yield an incorrect result.

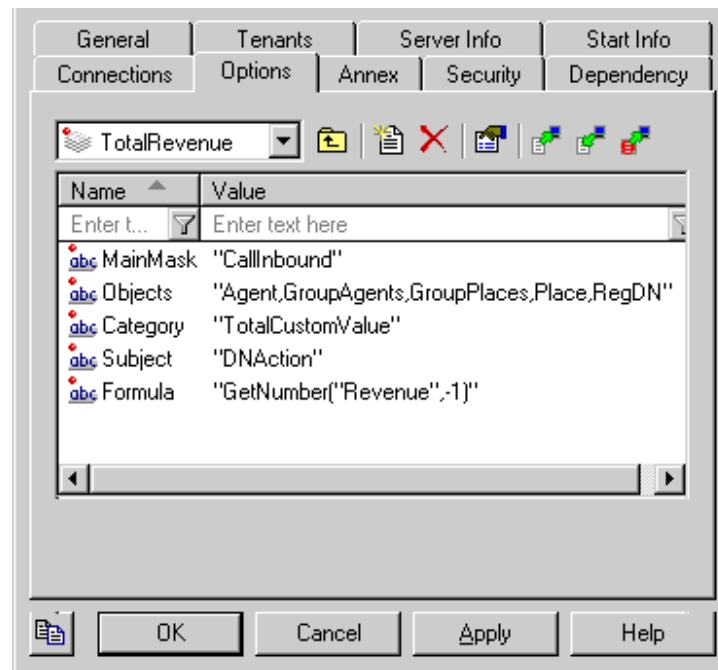
Figure 5 shows the bottom portion of the DMA interface, in which the new Total Revenue stat type now appears.



**Figure 5: New Stat Type Added**

## Defining Stat Types by Using Configuration Manager

You can also define stat types within the Stat Server application object by using Configuration Manager. [Figure 6](#) shows the definition of the Total Revenue stat type which appears as a section under Options tab in Stat Server application. For the reasons that are stated in the [Appendix](#), however, the preferred method of stat type creation is by using DMA.

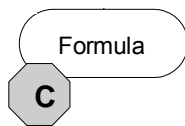


**Figure 6: The TotalRevenue Stat Type in Configuration Manager**



## 3

## Creating Custom Formulas



This chapter illustrates how to create a custom formula by using the Agent Revenue exercise, which is described on [page 10](#), as a backdrop. Formulas are one attribute of a stat type that enable computations on business-related data that is attached to TEvents. In this exercise, the revenue that is generated by an inbound call is captured and attached to the EventEstablished TEvent. (How attached data is configured is beyond the scope of this exercise.) The issuance of this TEvent, along with a call-type attribute of Inbound, triggers the Stat Server CallInbound durable action. Our task is to define a custom formula for the Total Revenue stat type that was created in [Chapter 2](#).

This chapter includes the following sections:

- [Our Custom Formula: Last Revenue Generated, page 21](#)
- [Defining Custom Formulas to Stat Types by Using DMA, page 22](#)
- [Defining Custom Formulas to Stat Types by Using Configuration Manager, page 25](#)

You can assign formulas to stat types by using Configuration Manager. For the reasons that are stated in the [Appendix](#), however, the bulk of this chapter illustrates custom formula creation by using Data Modeling Assistant (DMA).

---

### Our Custom Formula: Last Revenue Generated

This example will retrieve the last revenue value that was affiliated with a call. In Stat Server terminology, the  $n^{th}$  occurrence of a value for a particular key can be retrieved from user data by specifying an index in the custom formula—for example, `GetNumber("Revenue", -1)`. The constant -1 is reserved to retrieve the last value. Refer to the “UserData Properties” table in the *Framework Stat Server User’s Guide* for a detailed discussion about the functions that you can use to extract user-data values.

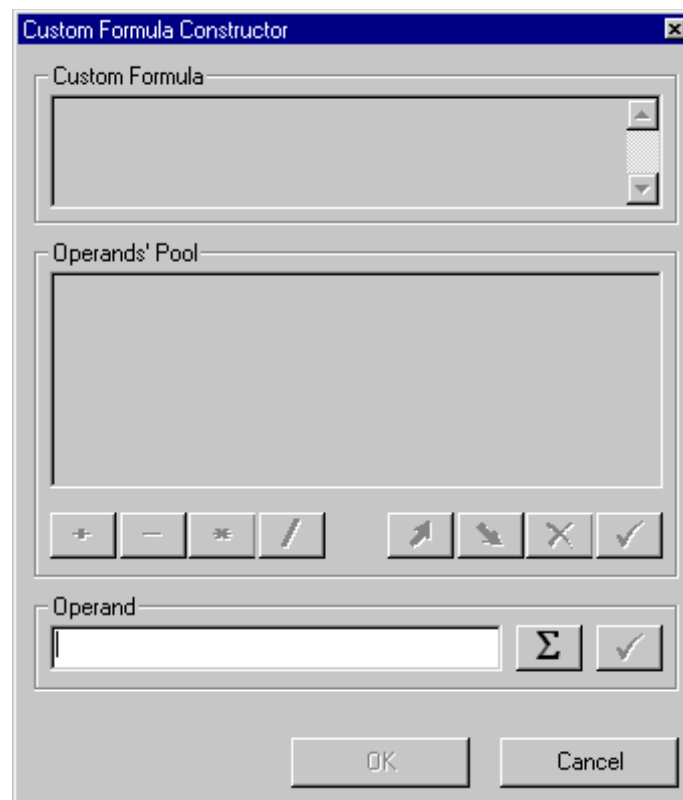
In theory, however, revenue might be generated several times during the same call (for example, by different agents). The `TKV List` can have several pairs that use the same key. In this case, the formula could be defined using a summation function, `GetSum("Revenue")`, to sum up all such revenues.

## Defining Custom Formulas to Stat Types by Using DMA

1. Open DMA, and select the same Data Sourcer application that was used to create the Total Revenue stat type in [Chapter 2](#).
2. In the Statistical Parameters section, click Statistical Types to display the stat types that are defined to ODS.
3. Double-click the Total Revenue stat type to open the StatType Constructor dialog box and display its properties.

Figure 3 on [page 17](#) shows how this stat type was defined.

4. Click the Summation button  $\Sigma$  in the StatType Constructor dialog box to open the Custom Formula Constructor dialog box, which is shown in [Figure 7](#).

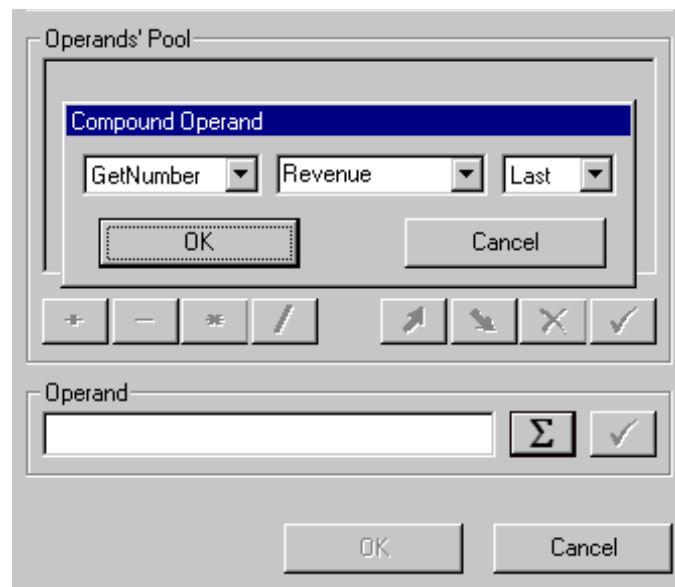


**Figure 7: Custom Formula Constructor Dialog Box**

We construct custom formulas as a composition of their atomic operands. We define the atomic operands in the Operand field (at the bottom of the dialog box), propagate them to Operands' Pool (in the middle), and then move the resulting formula to the Custom Formula frame (at the top). Fortunately, our custom formula is simple, consisting of only one atomic operand. It extracts the revenue value from the key-value (TKV) pair ("Revenue", "Value") of the CallInbound durable action. This value represents the revenue that was generated during this action.

5. To create the atomic formula, click the Summation button.

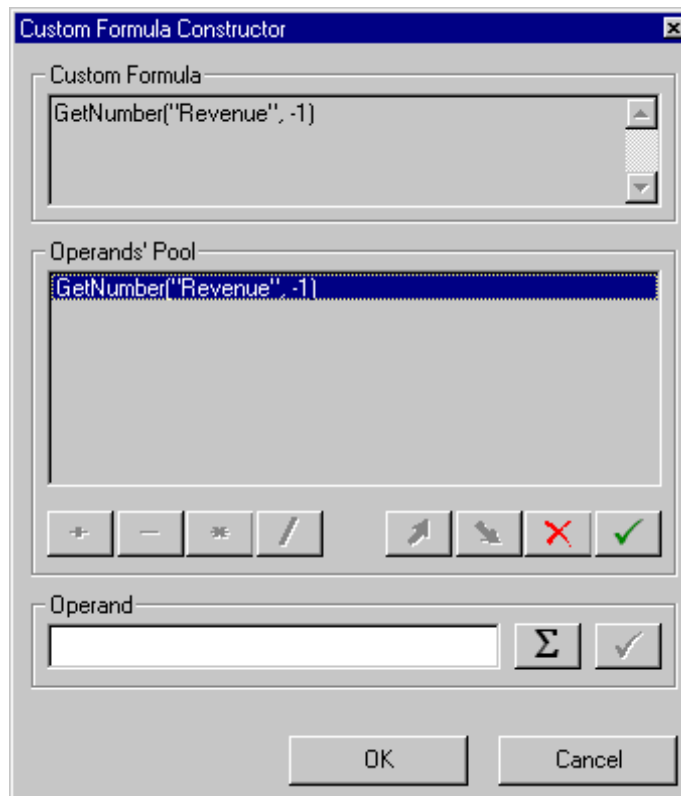
The Compound Operand dialog box, which is shown in [Figure 8](#), overlays the Custom Formula Constructor dialog box (only a portion of which is shown in the figure).



**Figure 8: Creating a Custom Formula**

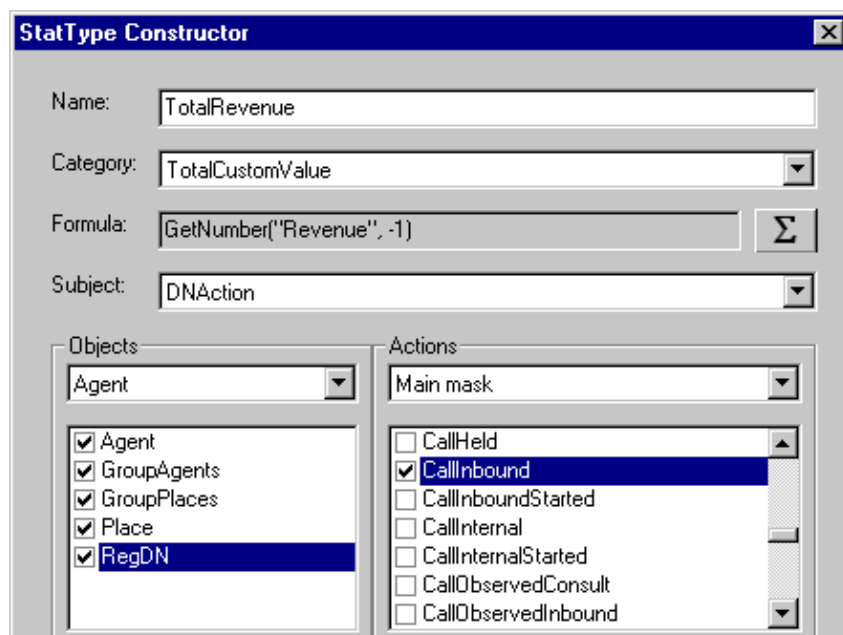
- a. In the first list box in the Compound Operand dialog box, select the GetNumber binary function.
  - b. In the second list box, which corresponds to the first operand of the function, type Revenue, which is the name of the TKV key.
  - c. In the third list box, select Last. If more than one revenue value was affiliated with the call, the Last function returns the last affiliated value.
  - d. Click OK to close the Compound Operand dialog box and move the atomic formula to the Operands' Pool.
6. Click the check-mark button that appears just below the Operands' Pool to move the formula to the Custom Formula frame.

[Figure 9](#) shows the completed custom formula.



**Figure 9: Finishing the Custom Formula**

7. Click OK to return to the StatType Constructor dialog box, the top half of which is shown in [Figure 10](#). Your custom formula appears in the Formula box.



**Figure 10: Finishing the TotalRevenue Statistical Type**

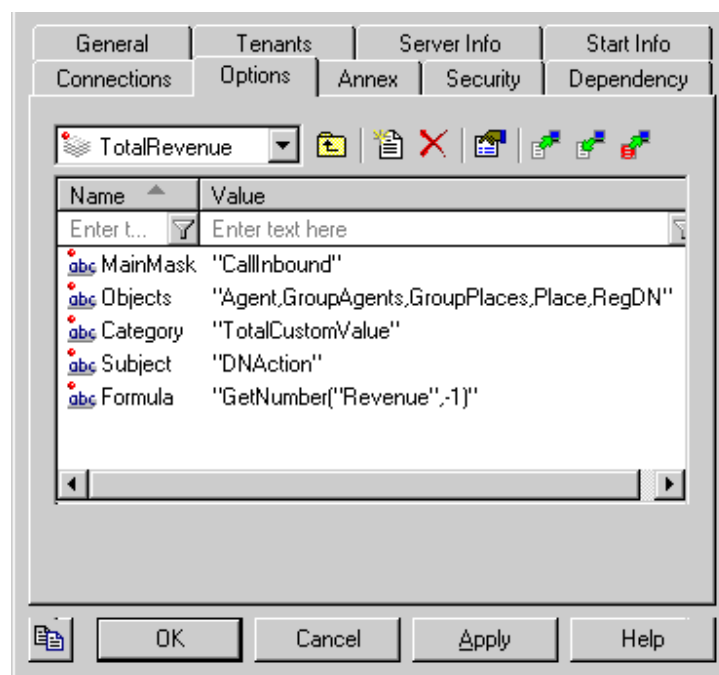
8. Click OK to save the stat type definition.

Data Sourcer writes the definition to both the Configuration Server and ODS.

---

## Defining Custom Formulas to Stat Types by Using Configuration Manager

The Formula configuration option of a stat type section in a Stat Server application is where you apply a custom formula to a statistic. As defined in [Figure 10](#), [Figure 11](#) shows the Total Revenue stat type configuration section as it appears in Configuration Manager.

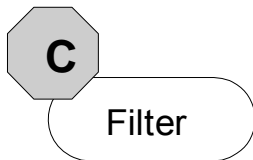


**Figure 11: TotalRevenue Stat Type in Configuration Manager**



## 4

## Creating Custom Filters



This chapter continues the Agent Revenue exercise by creating three custom filters within Data Modeling Assistant (DMA). These will filter the data set that is returned by revenue metrics that use the Total Revenue stat type profile (described on [page 16](#)). These illustrate the filter customization point that is depicted in Figure 1 on [page 10](#).

This chapter includes the following sections:

- [Our Custom Filters: Platinum, Gold, and Regular, page 27](#)
- [DMA Filter Constructor Dialog Box, page 28](#)
- [Configuration Manager, page 30](#)

You can create filters within the Stat Server application by using Configuration Manager. For the reasons that are stated in the [Appendix](#), however, the bulk of this chapter illustrates filter creation via DMA.

---

### Our Custom Filters: Platinum, Gold, and Regular

Our task is to create custom filters for each of the customer-segment groups in this example. The `Platinum` filter will check the user data that is associated with a call for a customer-segment designation of `Platinum`. `Platinum` customers are identified by the TKV pair identified by the `CS` key and a value of `Platinum`. Likewise, the `Gold` and `Regular` filters check for the `Gold` and `Regular` customer-segment designations, respectively. (How this user data is configured to determine which customer belongs to which group is beyond the scope of this exercise.)

## DMA Filter Constructor Dialog Box

1. Open DMA, and select the same Data Sourcer application that was used to create the Total Revenue stat type in [Chapter 2](#).
2. In the Statistical Parameters section of the Folder List, click Filters to display the filters defined to ODS.
3. In the Edit menu, select New to open the Filter Constructor dialog box (shown in [Figure 12](#)).

The screenshot shows the 'Filter Constructor' dialog box. The 'Name' field is set to 'Platinum'. The 'Definition' field is empty. The 'Expression Stack' is empty. Below the stack are buttons for logical operators: '&', '|', and '~', along with buttons for 'X' and a checkmark. The 'Logical Expression' section has a 'Key' dropdown set to 'CS' and a 'Value' dropdown set to '"Platinum"'. A green checkmark button is next to the value field. Below this are two tabs: 'Logical expression' and 'KV pair'. The 'Description' field contains the text 'Calls from Platinum Customers'. At the bottom right are 'OK' and 'Cancel' buttons.

**Figure 12: Creating a Filter**

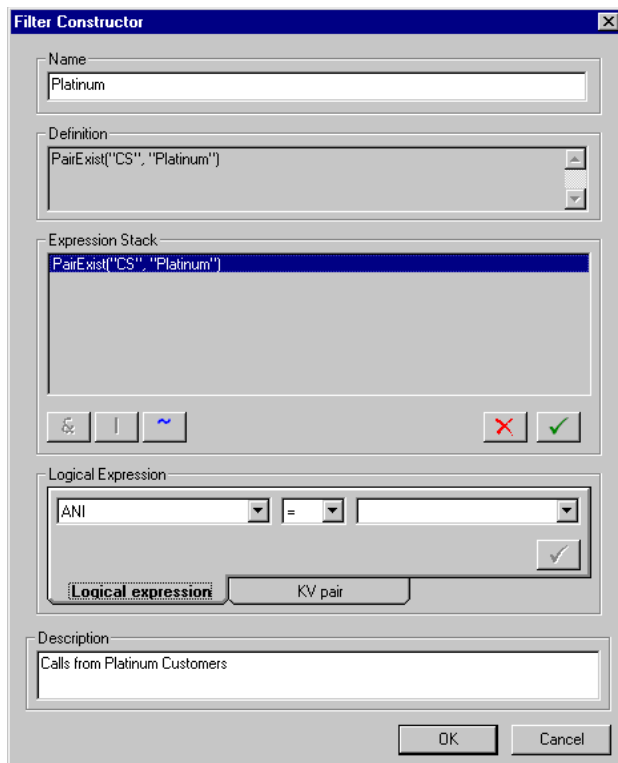
4. Create the Platinum filter by using the values that are shown in [Figure 12](#) as a guide.

---

Note: You must enter quotation marks ("" ) around the value, but not around the key.

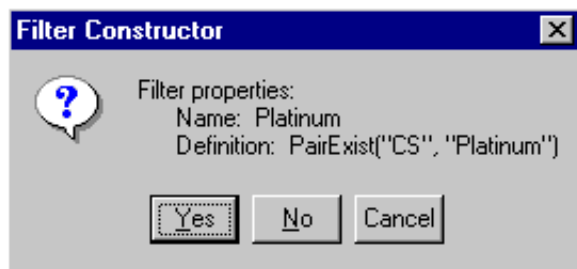
---

5. Click the check-mark button in the Logical Expression frame to move the function to the Expression Stack frame, in which it appears as a UserData PairExists function.
6. Click the check-mark button in the Expression Stack frame to move the formula to the Definition frame. Figure 13 shows a properly constructed filter.



**Figure 13: Finishing the Platinum Filter**

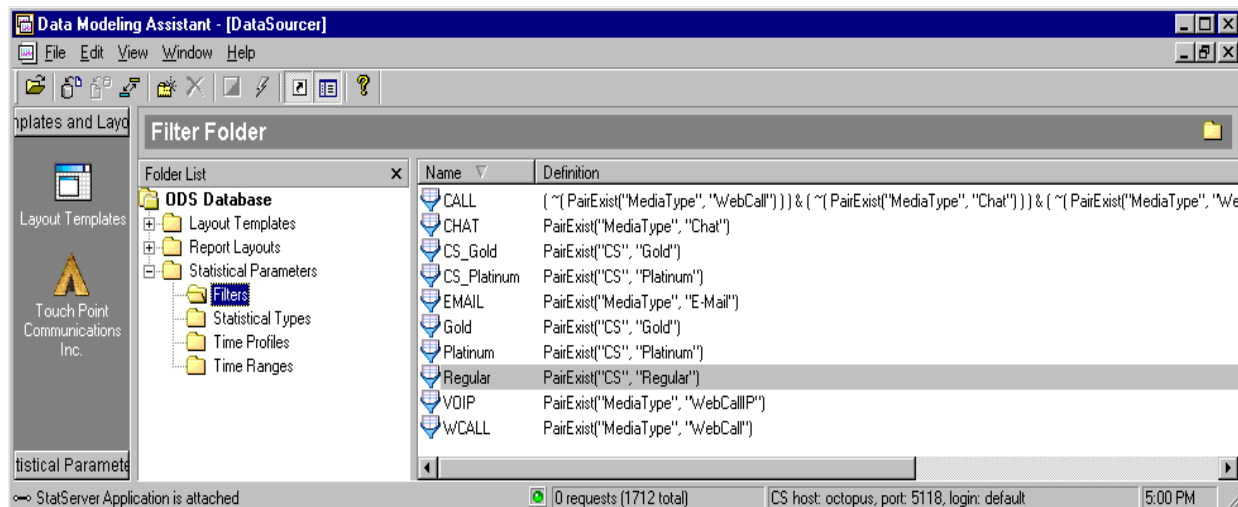
7. Click OK, and then confirm the final definition of the new filter (see Figure 14).



**Figure 14: New Filter**

- Repeat [Steps 3](#) through [7](#) to construct filters for Gold and Regular customers.

When you are finished, you should see the three filters in the right-hand pane (see [Figure 15](#)).



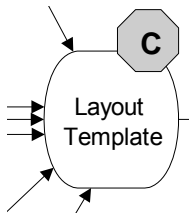
### Figure 15: New Filters Added

# Configuration Manager

Stat Server does not reference the objects that are listed in the `Filters Configuration Server` folder. A Stat Server application references its own configuration for filter definition.

## 5

## Creating Custom Layout Templates



To continue the Agent Revenue exercise, we next combine the elements that we have created thus far to build a layout template on which our report will be based. Layout templates define the data that is to be collected. Reports need not be created via layout templates; they can be built without inheriting template attributes. However, creation of a layout template for this exercise both provides greater portability for deployment to other tenants in multi-tenant environments and illustrates yet another customization point in the Historical Solution Reporting Model.

This chapter includes the following sections:

- [Our Custom Layout Template: AG\\_REVENUE, page 31](#)
- [The Template Creation Wizard, page 32](#)

---

**Note:** This chapter creates a polished layout template right from the start. In practice, however, reports that are based on newly created templates might go through refinement before they yield the desired results. There are some limitations with respect to editing existing layout templates for which data collection has begun. For this reason, you should follow the customization guidelines that are outlined on [page 12](#) to test the results from reports that are not based on templates.

---

---

### Our Custom Layout Template: AG\_REVENUE

We shall create our custom layout template, AG\_REVENUE, by using the Template Creation Wizard in DMA. As a basis, we shall build this template by using the four custom REVENUE statistics that were created in [Chapter 6](#). You will recall

that these were built upon a custom stat type (Total Revenue), a custom formula, and three custom filters (REVENUE\_PLATINUM, REVENUE\_GOLD, and REVENUE\_REGULAR). You can create layout templates only by using DMA.

---

## The Template Creation Wizard

1. Open DMA, and select the same Data Sourcer application that was used to create the Total Revenue stat type in [Chapter 2](#).
2. In the Templates and Layouts section, click the Layout Templates icon to display the folder list of layout templates, report layouts, and statistical parameters that are defined to ODS.
3. Right-click the Layout Templates folder in the folder list, and then select New from the context menu that appears.



The Template Creation Wizard opens in the Layout Template – Common Info page.

4. Specify basic information to identify the AG\_REVENUE layout template, as shown in [Figure 16](#), and then click Next:
  - a. In the Object Type list box, select Agent.
  - b. In the Template Name box, enter AG\_REVENUE.
  - c. In the Layout Name box, enter Agent Revenue. This is the default name that is assigned to report layouts that are built from this layout template.
  - d. Enter a short description in the Description box.

**Layout Template - Common Info - AG\_REVENUE**

Please, select Template Name, Layout Name and Object Type. Description is optional.

Object Type:

Template Name:

Layout Name:

Description:

< Back    Next >    Cancel

**Figure 16: Creating a New Layout Template**

The Layout Template – Statistics page appears, for you to add/define statistics to the layout template.

- Click the New button to invoke the Statistic Wizard. Creation of statistics is another point of customization in the Historical Solution Reporting Model and is described separately in [Chapter 6](#) (see that chapter for instructions on how to create the four custom statistics).

When done, control returns to the Layout Template – Statistics page, in which all four statistics are displayed (see [Figure 17](#)).

**Layout Template - Statistics - AG\_REVENUE**

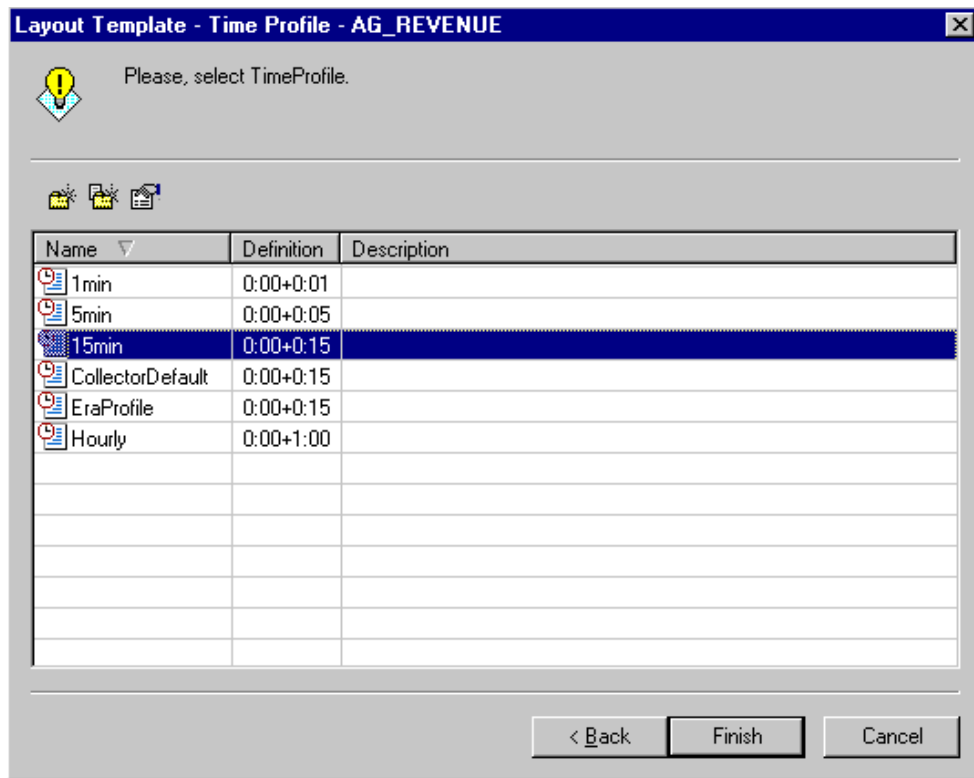
Please, compose the set of Statistics. Statistics can be added or removed. Each Statistic is based on the particular StatType. If Layout is being created using the Template, then set of the statistics from the chosen Template will be inherited by this Layout. This set isn't editable.

Column Name	StatType Name	Time Range	Filter	Description
REVENUE_GOLD	TotalRevenue		Gold	Gold Customer Revenue
REVENUE_PLATINUM	TotalRevenue		Platinum	Platinum Customer Revenue
REVENUE_REGULAR	TotalRevenue		Regular	Regular Customer Revenue
REVENUE_TOTAL	TotalRevenue			Total Revenue

**Figure 17: Inserting All Metrics**

6. Click Next to advance to the Time Profile page of the Template Creation Wizard.

Time profiles are yet another point of customization in the Historical Solution Reporting Model. In this example, however, we shall use the predefined, Genesys-provided time profile shown in [Figure 18](#).



**Figure 18: Selecting a Time Profile**

7. Select the 15min time profile, which is defined as 0:00+0:15.  
This profile instructs Data Sourcer to retrieve metrics from Stat Server and reset them to zero every 15 minutes.
8. Click Finish to save the layout template.  
Notice that the AG\_REVENUE layout template has been added to the Layout Templates folder (see [Figure 19](#)). It has also been stored in ODS.

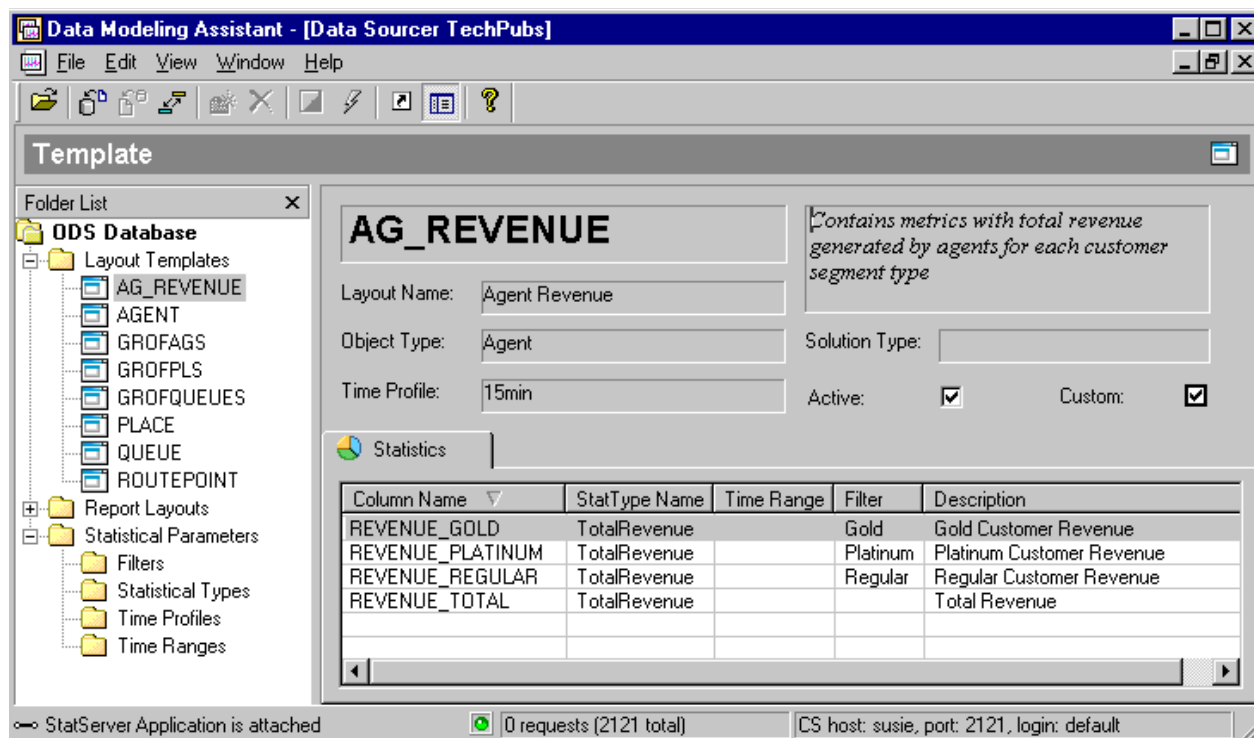
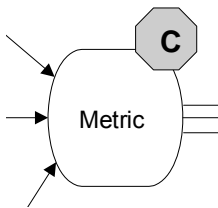


Figure 19: Finishing Template Creation



## 6

## Creating Custom Statistics



This chapter uses the Agent Revenue exercise as a backdrop to illustrate creation of custom statistics. The statistics that we shall create herein provide the basis of the AG\_REVENUE layout template that we created in [Chapter 5](#).

Statistics are one attribute of layout templates and report layouts that define the data that is to be collected. Other attributes include the contact center objects to which this data applies and a time profile, that specifies the unit of time over which this data is aggregated.

Historical Reporting statistics are created via the Statistic Wizard, which you can invoke only when managing a layout template or report layout. However, to maintain focus on this one point of customization in the Historical Solution Reporting Model, creation of layout templates and report layouts is discussed separately in [Chapter 5](#).

This chapter includes the following sections:

- [Our Custom Revenue Statistics, page 37](#)
- [The Statistic Wizard, page 38](#)

---

## Our Custom Revenue Statistics

The schema (which is shown Figure 2 on [page 11](#)) for our Agent Revenue report requires four custom statistics:

- |                    |                   |
|--------------------|-------------------|
| • REVENUE_TOTAL    | • REVENUE_GOLD    |
| • REVENUE_PLATINUM | • REVENUE_REGULAR |

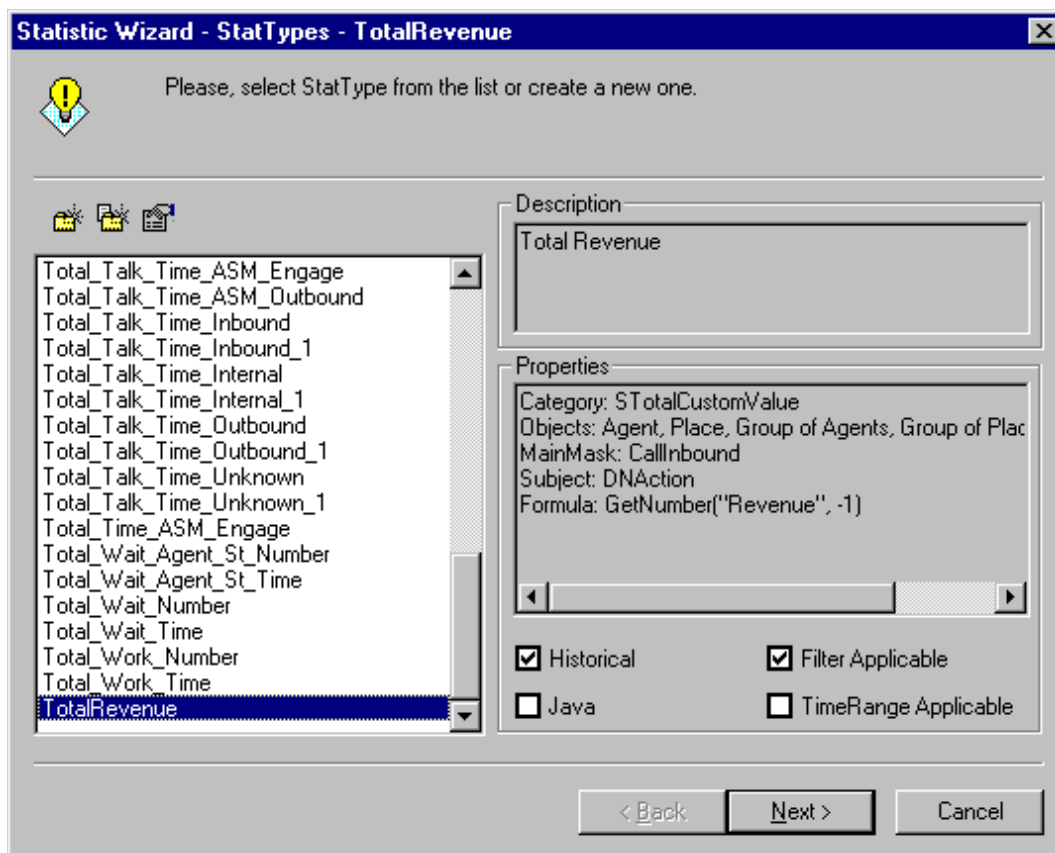
Their definition relies on the custom elements created in [Chapters 2, 3, and 4](#). Data Modeling Assistant (DMA) is the only Genesys tool that you can use to create Historical Reporting statistics for Data Mart. Do not confuse metrics with statistics. Metrics, when they are applied to a specific contact-center object, produce a statistic. (This is described in the *Overview* book of the *Reporting Technical Reference* series.) Historical Reporting metrics, on the other hand, can be defined by using RDBMS tools.

# The Statistic Wizard

To create the REVENUE\_PLATINUM statistic:

1. Open DMA, and select the same Data Sourcer application that was used to create the Total Revenue stat type in [Chapter 2](#).
2. In the Layout Templates folder, select the AG\_REVENUE layout template that you created in [Chapter 5](#).
3. In the Layout Template – Statistics page, click the New button to invoke the Statistic Wizard.
4. In the Stat Types page, select the Total Revenue stat type from the list, as shown in [Figure 20](#), and then click Next.

Note that the properties of the selected stat type appear in the Properties frame.



**Figure 20: Adding a Stat Type to the Layout Template**

5. In the Filters page, select the Platinum filter (shown in [Figure 21](#)) and then click Next.

We use this filter (which you created in [Chapter 4](#)) to restrict the Total Revenue values that are returned to those that pertain only to Platinum customers.

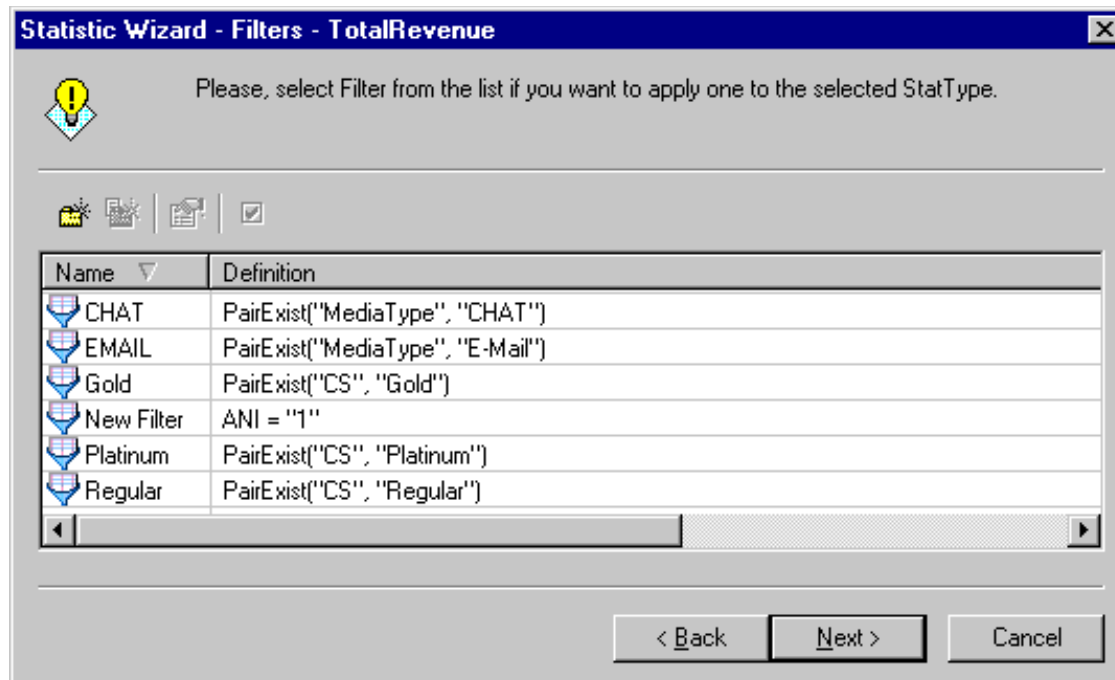


Figure 21: Selecting a Filter

6. In the Column Info page, type a unique column name and short description (as shown in Figure 22), and then click Finish.

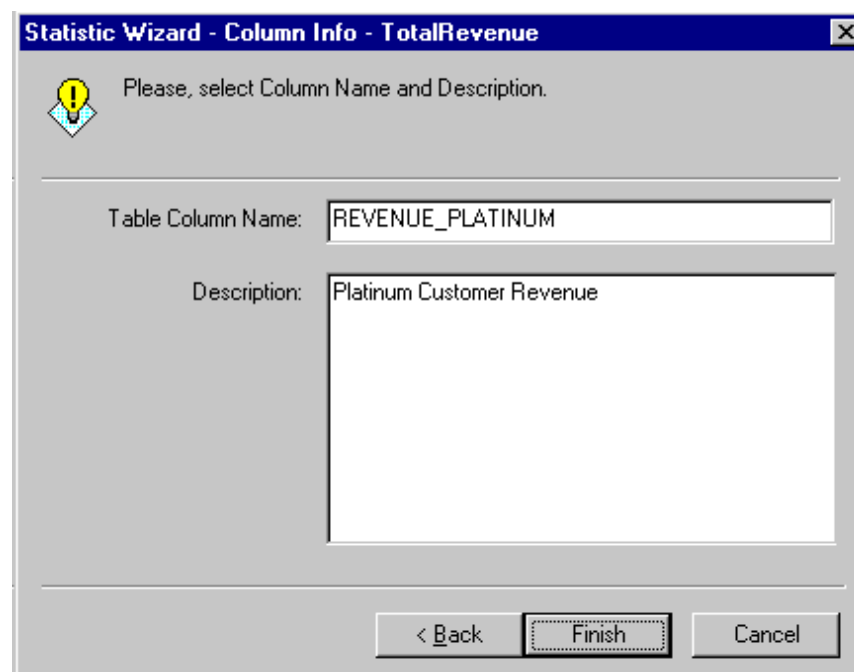


Figure 22: Selecting a Column Name

Control returns to the Layout Template - Statistics page, in which you can define more statistics to the layout template. (see [Figure 23](#)). This example requires three additional statistics.

[illegible]

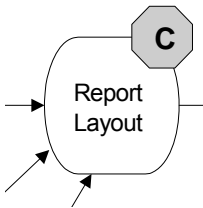
### Figure 23: Finished Metric for Platinum Customers

- Repeat [Steps 3](#) through [6](#) to define statistics for Gold customers (REVENUE\_GOLD) and Regular customers (REVENUE\_REGULAR), as well as an unfiltered statistic that measures the total revenue generated by all customers (REVENUE\_TOTAL).

## 7

## Creating Custom Report Layouts

Next along the path of our Agent Revenue exercise is building a report layout. It is via the definition of this report layout that Data Sourcer will collect the data that will be requested by the report that we create in [Chapter 10](#). In this regard, report layouts differ from layout templates—Data Sourcer does not collect data for templates.



This chapter illustrates yet another point of customization in the Historical Solution Reporting Model (which is shown in Figure 1 on [page 10](#)). It includes the following sections:

- [Our Custom Report Layout: Agent Revenue, page 41](#)
- [The Layout Creation Wizard, page 42](#)
- [Activating the Report Layout, page 46](#)

---


### Our Custom Report Layout: Agent Revenue

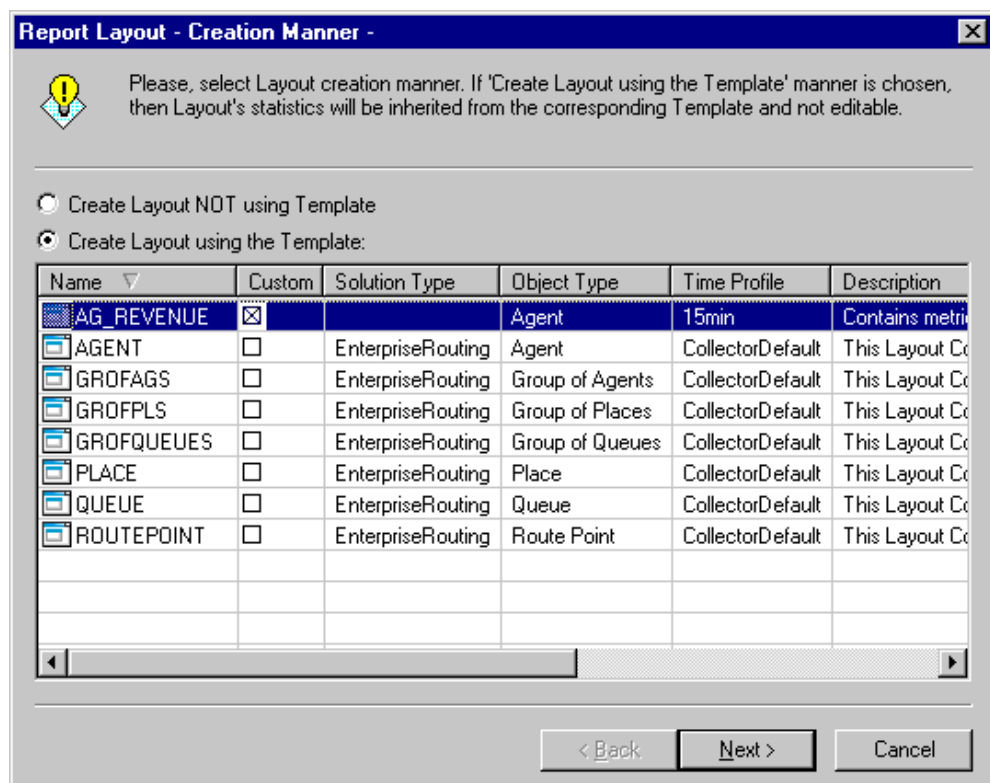
We shall create our custom report layout from the AG\_REVENUE layout template created in [Chapter 5](#). Recall at [Step 4c](#) (on [page 32](#)) that we assigned a default name—Agent Revenue—to report layouts that are created from the AG\_REVENUE template. We shall use this name.

Also, we shall use the Layout Creation Wizard in Data Modeling Assistant (DMA) to create this report layout. Report layouts should be created only by using this tool.

# The Layout Creation Wizard

To create the Agent Revenue report layout:

1. Open DMA and select the same Data Sourcer application that was used to create the Total Revenue stat type in [Chapter 2](#).
2. In the Templates and Layouts section, click the Layout Templates icon to display the folder list of layout templates, report layouts, and statistical parameters that are defined to ODS. 
3. From the folder list, right-click the Report Layouts folder, and select New from the context menu that appears. This opens the Layout Creation Wizard, which is shown in [Figure 24](#).



**Report Layout - Creation Manner**

Please, select Layout creation manner. If 'Create Layout using the Template' manner is chosen, then Layout's statistics will be inherited from the corresponding Template and not editable.

☐ Create Layout NOT using Template  
☒ Create Layout using the Template:

Name	Custom	Solution Type	Object Type	Time Profile	Description
AG_REVENUE	<input checked="" type="checkbox"/>		Agent	15min	Contains metrics
AGENT	<input type="checkbox"/>	EnterpriseRouting	Agent	CollectorDefault	This Layout Co
GROFAGS	<input type="checkbox"/>	EnterpriseRouting	Group of Agents	CollectorDefault	This Layout Co
GROFPLS	<input type="checkbox"/>	EnterpriseRouting	Group of Places	CollectorDefault	This Layout Co
GROFQUEUES	<input type="checkbox"/>	EnterpriseRouting	Group of Queues	CollectorDefault	This Layout Co
PLACE	<input type="checkbox"/>	EnterpriseRouting	Place	CollectorDefault	This Layout Co
QUEUE	<input type="checkbox"/>	EnterpriseRouting	Queue	CollectorDefault	This Layout Co
ROUTEPOINT	<input type="checkbox"/>	EnterpriseRouting	Route Point	CollectorDefault	This Layout Co

< Back   Next >   Cancel

**Figure 24: First Page of the Layout Creation Wizard**

4. Designate the manner of report layout creation:
  - a. Select the Create Layout Using the Template radio button.
  - b. Select the AG\_REVENUE layout template.
  - c. Click Next to advance to the Common Info page of the Wizard (see [Figure 25](#)).

**Report Layout - Common Info - Agent Revenue**

Please, select Tenant Name (multi-tenant environment only), Layout Name and Object Type. Description is optional. If Layout is being created using the Template, then Object Type is stilly tied to the Template's one.

Tenants: ☒ Touch Point Communications Inc.

Object Type: Agent

Layout Name: Agent Revenue

Description: Contains metrics with total revenue generated by agents for each customer segment type

< Back   Next >   Cancel

**Figure 25: Creating a New Report Layout**

Note that this page is prepopulated with the information from layout template creation (see Figure 16 on [page 33](#)). In multi-tenant environments, be sure to select the appropriate tenant.

5. Click Next to advance to the Objects page of the Wizard, which is shown in [Figure 26](#).

Because our report layout is based from a template, it inherits the object type that we selected during its creation. You cannot change this type, but you can specify the group of objects of that type for which Data Sourcer should collect data.

**Report Layout - Objects - Agent Layout 1**

Choose object selection mode. If selecting objects by metagroup, double-click the Tenant for a listing of available metagroups. Otherwise, select objects from the Objects list to the right. You can always change the object selection mode at a later time.

☒ Select all objects in this group.  
☐ Select objects individually.

Tenants/Metagroups: Object Type: Agent

Tenant	Metagroup
Touch Point	Sales
	Accounting
	All Agents
	Receptionists
	Sales
	Support

First Name	Last Name	Employee ID
Jonathan	Brandis	aa701_g3_tc
Jose	Greco	aa977_g3_tc
Jose	Canseco	aa740_g3_tc
Joseph	Cotten	aa805_g3_tc
Joyce	DeWitt	aa848_g3_tc
Joyce	Brothers	aa711_g3_tc
Judy	Garland	aa938_g3_tc
Julia	Duffy	aa865_g3_tc
Julie	Andrews	aa614_g3_tc
June	Foray	aa914_g3_tc
June	Carter	aa754_g3_tc
Kahlil	Gibran	aa951_g3_tc

< Back   Next >   Cancel

Figure 26: Selecting a Metagroup

- On the Objects page, we select the Sales metagroup for this report layout, and click Next.

The Sales agent group generates revenue, so that we want information about all of the members of this group.

- Click Next to open the Statistics page of the Wizard (see Figure 27).

**Report Layout - Statistics - Agent Revenue**

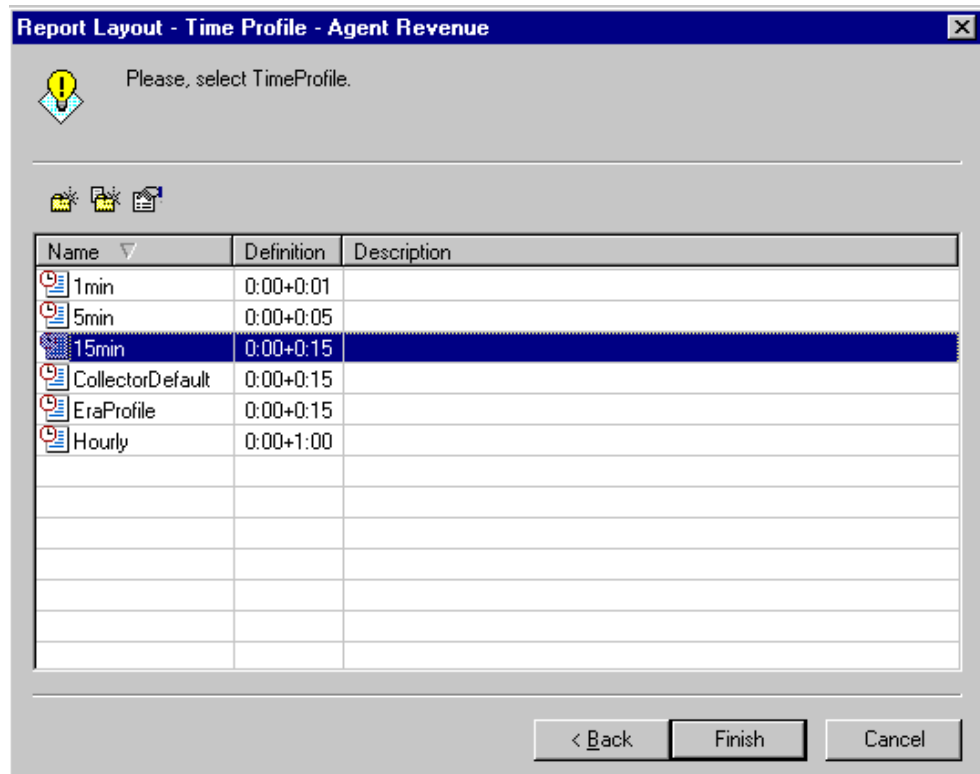
Please, compose the set of Statistics. Statistics can be added or removed. Each Statistic is based on the particular StatType. If Layout is being created using the Template, then set of the statistics from the chosen Template will be inherited by this Layout. This set isn't editable.

Column Name	StatType Name	Time Range	Filter	Description
REVENUE_GOLD	TotalRevenue		Gold	Gold Customer Revenue
REVENUE_PLATINUM	TotalRevenue		Platinum	Platinum Customer Revenue
REVENUE_REGULAR	TotalRevenue		Regular	Regular Customer Revenue
REVENUE_TOTAL	TotalRevenue			Total Revenue

Figure 27: Viewing Metrics in Report Layout

On this page, we see prepopulated the four statistics that we defined during layout template creation. Because this report layout is being created from a layout template, we cannot edit the statistics on this page.

8. Click Next to open the Time Profile page of the Wizard (see [Figure 28](#)).



**Figure 28: Viewing the Time Profile in the Report Layout**

9. Select the 15min time profile, and click Finish to complete report-layout creation.

---

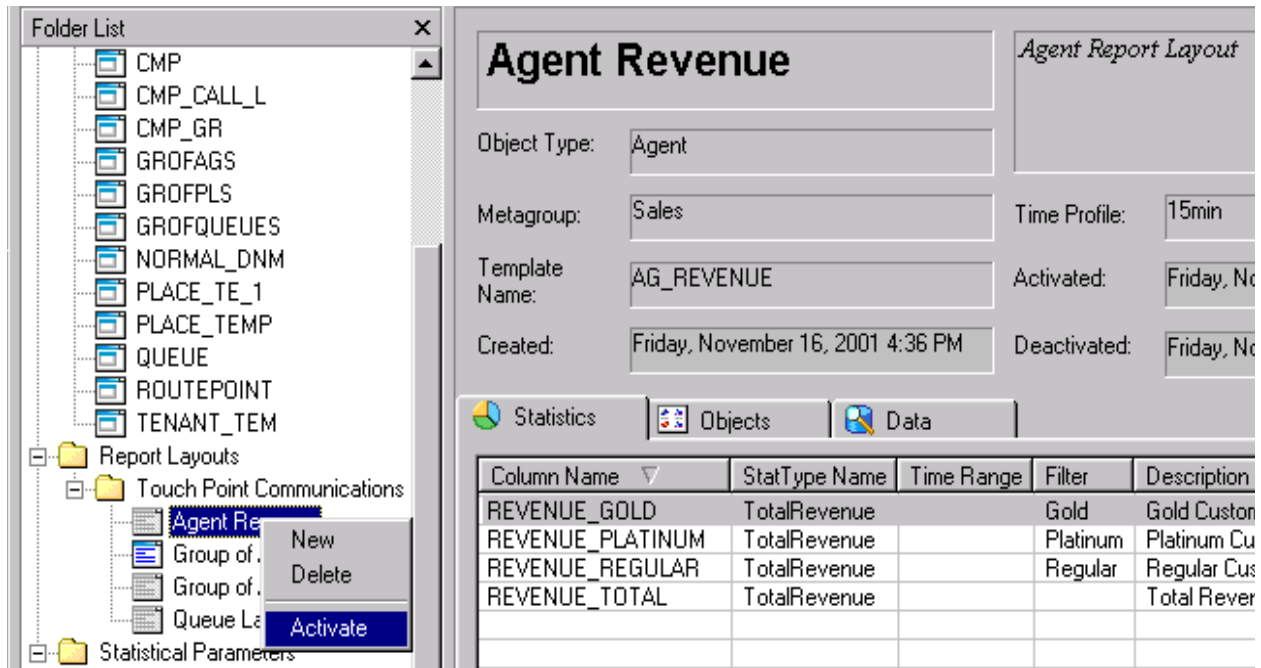
Note: It is not necessary to select the same time profile that was defined during layout template creation.

---

## Activating the Report Layout

After creating our report layout, we must activate it in order for Data Sourcer to begin gathering statistical data.

1. Right-click the Agent Revenue report layout.
2. Select Activate from the context menu that appears (see [Figure 29](#)).



**Figure 29: Activating the Agent Revenue Report Layout**

Data Sourcer collects the requested data from Stat Server and stores it to ODS. However, this data must be ported over to the Data Mart and aggregated in order for it to be available for reporting by the Information Delivery Services.



## Chapter

# 8

## Open Media Templates

This chapter provides Genesys' recommendation for how to create open media templates and the metrics that constitute them, for any custom media type that your environment might support.

This chapter assumes that you have already completed the steps that are required to set up your custom media environment, including:

- Creating the custom media servers that will process interactions, by using the Genesys Interaction SDK.
- Propagating all custom media types that your custom media server will handle to the Configuration Layer, by using the Configuration SDK.
- Designing the strategies to route interactions from your custom media server to the appropriate Genesys resource, by using the Genesys Universal Routing.

Refer to the *Genesys SDK Documentation Set* for information about how to use the software developer kits that Genesys provides.

In addition, you must appropriately configure your Stat Server Application object to recognize your Java Runtime Environment and to load the eService InteractionStat jar archive of the MCR Extension (release 7.1, or later). The “Java Sections” section of the *Framework Stat Server Deployment Guide* describes how to configure a Java section and its configuration options. Then, you must add this application to the connection properties of your Interaction Server application.

Finally, you must configure and install Reporting components. Refer to the *Reporting 7.6 Deployment Guide* for this information.

After your environment has been set up, you can create the elements that will ultimately be used in reports that summarize the interaction-handling activities of your custom media server. This chapter describes the steps for creating open media templates, divided into the following stages:

- [Stage 1: Create Statistical Parameters, page 49](#)
- [Stage 2: Create CCPulse+ Templates, page 54](#)
- [Stage 3: Create ODS Layout Templates, page 58](#)
- [Stage 4: Create Report Layouts, page 60](#)
- [Stage 5: Run the Transformation Module, page 61](#)
- [Stage 6: Associate Historical Metrics to Real-Time Metrics, page 61](#)

In addition, the following sections provide the definitions for all of the components you will need to create the recommended custom-media reports:

- [Open Media Statistical Parameters, page 63](#)
- [Open Media Stat Types, page 65](#)
- [Open Media CCPulse+ Templates, page 74](#)
- [Open Media Real-Time Metrics, page 76](#)
- [Open Media ODS Layout Templates, page 83](#)
- [Open Media Historical Metrics/Data Mart Metrics, page 86](#)

Each of these latter six sections describes one aspect or set of related elements of an open media template, using a series of miniature forms—one form for each element. Each form within a section collects the same information as the next form—only its values change from element to element. These forms also contain hyperlinks to other pages in this chapter, where that aspect of the template is defined in greater detail. The introductory material to each of these sections describes form content.

Throughout this chapter, we provide examples of how to create the various elements of nine custom reports—*CM1/2/3 Queue Handling*, *CM1/2/3 Agent Handling*, and *CM1/2/3 General Handling*—that summarize the interaction-handling activities of the *CMl<sub>xn</sub> Server*. We use the *CMl<sub>xn</sub> Server* as an example of a custom media server that is designed to monitor the interactions received and sent from a group of DNs that are configured within Configuration Server to handle *CM1*, *CM2*, and *CM3* media types.

Finally, the last section of this chapter explains how to modify the sample templates for open media:

- [Customizing the Genesys-Provided Sample Media Templates, page 90](#)

---

## Stage 1: Create Statistical Parameters

Before you build reports and views that are based on the custom historical and real-time templates that you create for your custom media environment, Genesys recommends that you first create the necessary parameters on which the statistics in those reports will be based. These parameters include:

- Filters.
- Custom-media stat types.
- Time profiles

This section describes how to create each of these parameters in turn. As you create these statistical parameters, be sure to check the Stat Server log to ensure no errors in parameter definition. The Stat Server debug-level log option should include `Init` and the verbose option should be set to `all`.

### Creating Custom Filters

If your custom media server will process more than one type of interaction, you should create filters to enable the separation of interactions according to their media type. If your custom media server will process more than one media type, and you want your reports to reflect media-driven activity, create the filters that are appropriate for your environment. If your custom media server will process only one type of media (or if you do not care that all media types will be grouped together in your reports), you can skip this activity altogether.

---

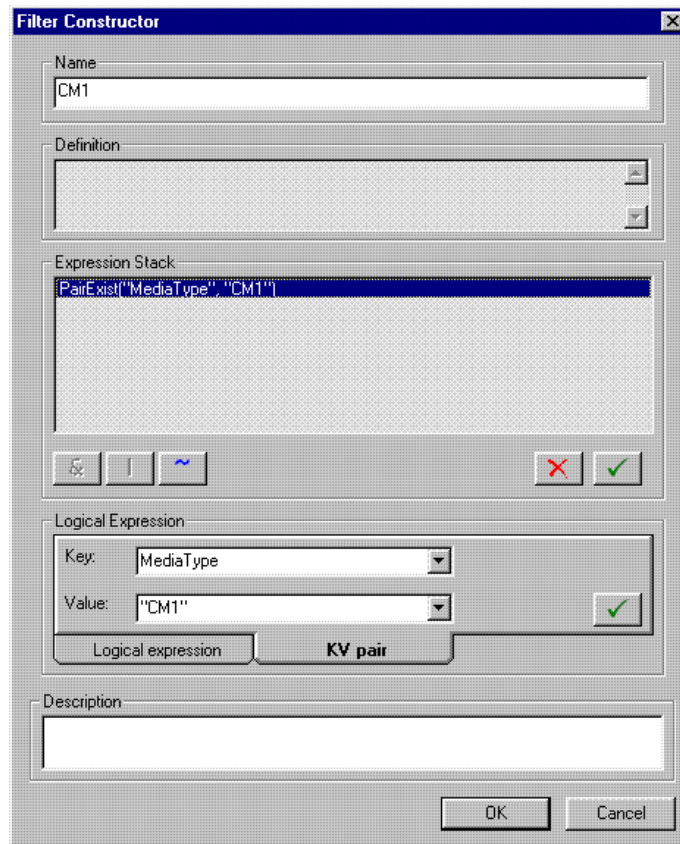
**Note:** Although you can also define filters directly within Configuration Manager, Genesys recommends that you use DMA to create them. See the Appendix on [page 97](#) for more information.

---

To create filters:

1. In DMA, open the `Statistical Parameters` folder.
2. Right-click the `Filters` folder and select `New` in the shortcut menu that appears.
3. In the `Filter Constructor` dialog box, define your filter. The following steps describe how to create one filter for this sample CMIXn server.
  - a. In the `Name` field, type a unique name for your filter. For this sample environment, we name this filter `CM1`.
  - b. On the `KV pair` tab of the `Logical Expression` frame, type `MediaType` in the `Key` box and `"CM1"` in the `Value` box. The value must include the quotation marks.
  - c. Click the green check mark button to the right of the `Value` box to move the key and its value up to the `Expression Stack`.

Figure 30 illustrates how the dialog box appears after you have completed these steps.



**Figure 30: Creating the CM1 Filter**

- d. With the expression selected in the Expression Stack, click the second green check-mark button to move the expression to the Definition frame.
  - e. Click OK.
4. Repeat Steps 2 and 3 to create filters for the other custom media types to be handled in your environment. (CM2 and CM3, in this example).

---

**Note:** Do not use the Logical expression tab of the Logical Expression frame to define filters that are based on business attributes. Instead, you must use Configuration Server.

---

To create complex filters, you can define log expressions and/or key-value pairs by using the & (and), | (or), and ~ (not) logical connectives. Refer to the “Filter Constructor Dialog Box” topic in *Reporting 7.6 Data Modeling Assistant Help* for more information about creating filters.

## Creating Custom Stat Types

Stat Server 7.1 introduced a new statistical type attribute, *MediaType*, in order to further refine the values that Stat Server returns for a particular metric. This attribute functions in a similar manner to a Genesys filter that is based on key-value pairs. See the “Statistical Type” section in the *Overview* book of the *Reporting Technical Reference* series for a more detailed description of this attribute.

The recommended templates in this sample environment contain statistics that are based on the following two types of custom-media stat types:

- Core stat types—For metrics that are derived directly within Stat Server
- Extension stat types—For metrics whose values are supplied to Stat Server by a custom media server

In this release, Genesys recommends that you use Configuration Manager to create and manage all stat types used in open media templates. The procedure for creating either type of stat type is the same.

The definitions for the recommended open media stat types that you should create begin on [page 6526](#). There are 8 core stat types and 15 extension stat types.

### Core Stat Types

You can apply filters to metrics that are based on core stat types.

Current_Interaction s_In_Processing	Interaction s_Processed
Inbound_Interaction s_Stopped	Interaction s_Processing_Time
Interaction s_Accepted	Interaction s_Rejected
Interaction s_Offered	Interaction s_Timed_Out

### Extension Stat Types

Unlike core stat types, you cannot apply filters to metrics that are based on extension stat types. Instead, to imitate filter behavior, you can design your stat type to include a *MediaType* attribute. Such is the case for all of the following extension stat types:

<MD>_Current_In_Processing	<MD>_Minimum_Interaction s
<MD>_Current_In_Processing_In_Queue	<MD>_Minimum_Interaction s_In_Queue
<MD>_Current_In_Queue	<MD>_Stopped_Processing_Queue
<MD>_Current_Waiting_Processing	<MD>_Total_Entered
<MD>_Current_Waiting_Processing_In_Queue	<MD>_Total_Entered_Queue
<MD>_Maximum_Interaction s	<MD>_Total_Moved_From_Queue
<MD>_Maximum_Interaction s_In_Queue	<MD>_Total_Transfers

These extension stat types rely on the data generated by the following 14 Java functions, which are included in the eServiceInteractionStat archive of the MCR Stat Server Java Extension (SSJE):

- OMG Current In Processing
- OMG Current In Processing
- OMQ Current in Queue
- OMG Current Waiting Processing
- OMQ Current Waiting Processing
- OMG Maximum Interactions
- OMQ Maximum Interactions
- OMG Minimum Interactions
- OMQ Minimum Interactions
- OMQ Total Stopped Processing
- OMG Total Entered
- OMQ Total Entered
- OMQ Total Moved
- OMG Total Transfers

In these function names, OMQ stands for *Open Media Queue* which counts open media interactions that occur at interaction queues. OMG stands for *Open Media General*, which counts open media interactions that occur at one or more switches.

You must have the eServiceInteractionStat SSJE loaded within your Stat Server application, and you must configure Interaction Server connections to include your Stat Server application. Furthermore, there are several configuration options that you must set in order to load the extension. Refer to the *Framework Stat Server Deployment Guide* for specific instructions.

To create these stat types:

1. In Configuration Manager, open the properties of your Stat Server Application object.
2. On the Options tab, create and name a new section and click OK.

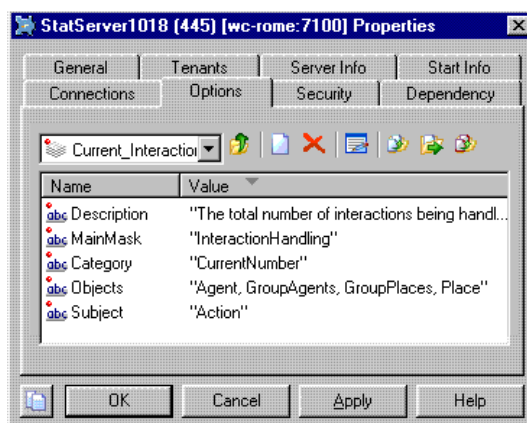
For this sample environment, we start with the first stat type that is listed on [page 67](#), which is Current\_Interactions\_In\_Processing, a core stat type. We name this section Current\_Interactions\_In\_Processing.

3. Open the section you just created; add the appropriate options and values, as specified in the definition of this stat type; and apply your changes.

Name	Value
MainMask	InteractionHandling
Category	CurrentNumber
Subject	Action
Objects	Agent, GroupAgents, GroupPlaces, Place
Description	[add your own description]

Genesys recommends that you always add a Description attribute to your stat type definition with an appropriate statement that describes the stat type's purpose.

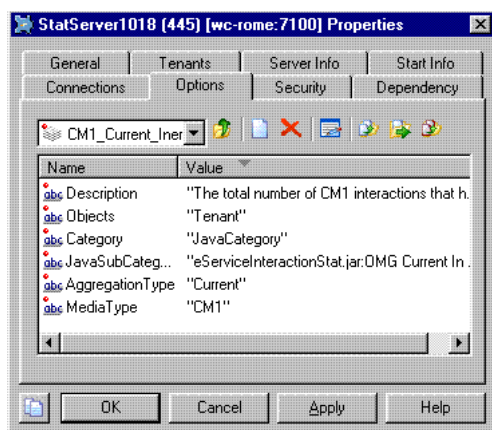
[Figure 31](#) illustrates how the dialog appears after you have completed this step.



**Figure 31: Creating Stat Types Within Configuration Manager**

4. Repeat [Steps 2](#) and [3](#) for the remaining stat types.
5. Click OK to close the application's properties.

[Figure 32](#) illustrates the creation of the first extension stat type from the listing, `<MD>_Current_In_Processing`, which is described on [page 69](#). In this example, the CM1 filter is assigned as the value for the MediaType attribute to filter the values that are returned from the `OMG_Current_In_Processing` class of the `eService_InteractionStat.jar` Java Extension. The stat type is aptly named `CM1_Current_Interaction_In_Processing`.



**Figure 32: Extension Stat Type**

For the extension stat types, you will need to repeat [Steps 2](#) through [4](#) above for each media type that your custom media server processes.

## Creating Time Profiles

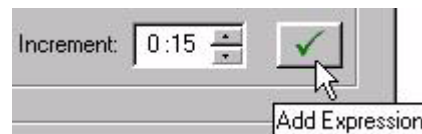
### Historical Time Profile

All of the Genesys-provided historical Solution reports use the `Collector Default` time profile, which is set up in your environment when you deploy the reports. This parameter instructs Stat Server to send data to Data Sourcer every 15 minutes, beginning every night at midnight. In your custom-media

environment, however, this parameter might not pre-exist if you have not previously deployed the Genesys-provided reports.

To create the CollectorDefault time profile:

1. In DMA, open the Statistical Parameters folder.
2. Right-click the Time Profile folder and select New in the shortcut menu that appears.
3. In the Time Profile Constructor dialog box, name the time profile. For this sample environment, we name this profile CollectorDefault.
4. In the Increment list box, type 15 minutes as shown in the figure to the right. Leave the Reset Time at 0:00 (midnight).
5. Click the green check mark button to the right of the Increment box, to move the expression to the Operand Pool.
6. Click the second green check mark button, above the Increment box, to move the expression to the Definition box.
7. Click OK.



Data Sourcer adds this definition to both Configuration Server and ODS. You can specify a different time profile if you want Stat Server to feed data to Data Sourcer at intervals other than 15 minutes, but make sure that the time profile that you set up represents an integral fraction of an hour. Refer to “How ETL Runtime Aggregates Data” in the *Reporting 7.6 ETL Runtime User’s Guide* for further information.

#### Real-Time Time Profile

The Genesys-provided, real-time reports use different time profiles for some metrics. For most, however, they use Stat Server’s internally defined Default time profile, which uses a Growing interval type that resets statistics every night at midnight. Genesys recommends that you use this time profile for real-time, custom-media metrics, but if you wish to use one or more different profiles, complete the following steps:

1. In Configuration Manager, open the properties of your Stat Server Application object.
2. On the Options tab, create a new section, name it TimeProfiles, and click OK.
3. Open the section, and provide a name and value for each time profile that you want to create.

## Stage 2: Create CCPulse+ Templates

After you have created the statistical parameters as described in the previous section, you can create real-time templates within CCPulse+. (You must create those parameters first, because you cannot create them within CCPulse+.)

To continue with the CM1xn example, we shall create the CM1 Queue Handling template:

1. Restart your CCPulse+ session, if it is already running.  
Restarting CCPulse+ will pick up any recent parameter additions and changes made in Configuration Server.
2. In CCPulse+, open the Template Wizard. This Wizard contains three screens:
  - Template Definition
  - Pre-defined Statistics
  - Graph
3. On the Template Definition page:
  - a. Select the appropriate object type in the Available Object Types frame. For this example, we use the Interaction Queue object type.  
**Note:** Interaction Queue is CCPulse+'s alias for the StagingArea object type.
  - b. In the Options frame, select Create new template and click Next.
4. On the Pre-defined Statistics page:
  - a. In the Template Name box, type a unique name. For this example, we name the template CM1 Queue Handling, based on the <MD> Queue Handling template (defined on [page 75](#).)
  - b. For each logical grouping of statistics, click New Group under the Requested Statistics frame, and name the group appropriately. This example adds two statistical groups: Total Number and Current Number.
  - c. In the Available Statistics frame, select the desired stat type, and move it under the appropriate statistical group in the Requested Statistics frame.

---

**Note:** The desired stat type might not be available if you did not previously add it to the configuration of your Stat Server Application object in Configuration Server. Furthermore, Genesys recommends that you do not directly use the 14 native Java classes that are provided in the Java extension (such as eServiceInteraction Stat.jar:OMQ Current in Queue) to build metrics.

---

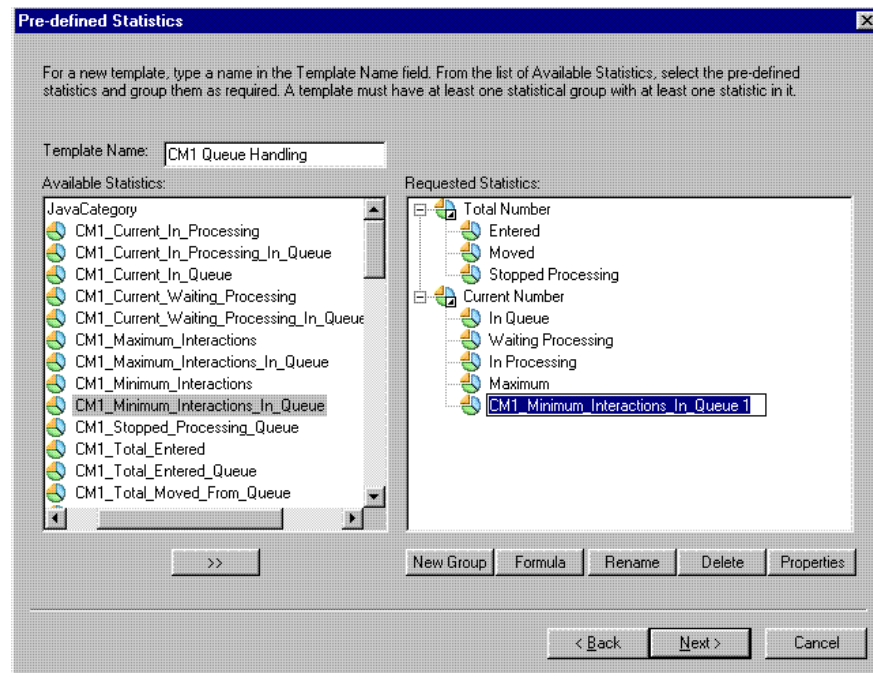
For this example, we move the CM1\_Total\_Entered\_Queue, CM1\_Total\_Moved\_From\_Queue, and CM1\_Stopped\_Processing\_Queue stat types to the Total Number statistical group and rename them Entered, Moved, and Stopped Processing, respectively.

Under the Current Number statistical group, we move and rename the following five stat types:

- CM1\_Current\_In\_Queue (renamed In Queue)

- CM1\_Current\_Waiting\_Processing\_In\_Queue  
(renamed Waiting Processing)
- CM1\_Current\_In\_Processing (renamed In Processing)
- CM1\_Maximum\_Interactions\_In\_Queue  
(renamed Maximum Interactions)
- CM1\_Minimum\_Interactions\_In\_Queue  
(renamed Minimum Interactions)

Figure 33 illustrates how this page appears after you have completed this step. We see that the CM1\_Minimum\_interactions\_In\_Queue metric is in the processing of being renamed Minimum Interactions.



**Figure 33: Creating the CM1 Queue Handling CCPulse+ Template**

- d. For each metric in the Requested Statistics frame, open its properties and set them as defined in “Open Media Real-Time Metrics” on [page 76](#). Click OK to commit your changes. Do not yet specify an historical association, because you have not yet created historical metrics.

Figure 34 illustrates the properties of the Entered metric in this sample environment.

- e. Click Next to advance to the final page of the Template Wizard.
5. On the Graph page, configure how graphs are to appear in the CCPulse+ views that you created based on this template, and then click Finish.
  6. At the message prompt, click OK.

The 'Statistic' dialog box is shown with the 'Properties' tab selected. The fields are as follows:

- Alias: Total Entered
- Stat type: eServiceInteractionStat.jar:OMQ Total Entered
- Insensitivity: 1
- Interval Type: Growing (with a 'Default' button next to it)
- Notification Frequency: 60
- Notification Mode: Time Based
- Filter: Not Applied
- Time Range: Not Applied
- Time Range 1: Not Applied
- Time/Number Format: 0

Below these fields is the 'Stat Type Definition' section with the following fields:

- Category: JavaCategory
- Subject: DNStatus
- Main Mask:
- Rel. Mask:

At the bottom are 'OK', 'Cancel', and 'Apply' buttons.

**Figure 34: The Entered Metric**

- Repeat [Steps 2 through 6](#) to create the CM2 Queue Handling and CM3 Queue Handling templates for this sample environment.

**Tip:** On the Template Definition page ([Step 3b](#)), select the CM1 template that you just created, and click Create from selected template. Then, on the Pre-defined Statistics page, wherever CM1 appears, change this to CM2 (or CM3). This method avoids having to repeat many of the time-consuming steps in this procedure.

- Repeat [Steps 2 through 7](#) for the two remaining CCPulse+ templates, <Media> Agent Handling (described on [page 75](#)) and <Media> General Handling (described on [page 75](#)).

For this sample environment, you should end up with the following nine templates:

CM1 Queue Handling	CM1 Agent Handling	CM1 General Handling
CM2 Queue Handling	CM2 Agent Handling	CM2 General Handling
CM3 Queue Handling	CM3 Agent Handling	CM3 General Handling

**Note:** The <Media> Agent Handling template contains one metric for which you must specify a formula rather than metric properties. On the Pre-defined Statistics page, for the Average Processing Time metric, select the appropriate statistical group (Average Time in this example), click Formula, and then type the formula shown in the description of this metric on [page 77](#).

Refer to *Reporting 7.5 CCPulse+ Help* for additional information about operating the Template Wizard.

## Stage 3: Create ODS Layout Templates

You use DMA to create layout templates and the historical metrics that constitute them. Layout templates provide the structure for report layouts, which collect the data for specified contact-center objects over a specified interval of time. For the Genesys-recommended open media reports, build the following six layout templates:

- AG\_<MD>
- PL\_<MD>
- Stage\_<MD>
- GA\_<MD>
- GP\_<MD>
- CC\_<MD>

These layout templates are described on [pages 84 and 84](#).

Before you create these layout templates, you must first start (or restart) Data Sourcer after building the stat types appropriate to your media type(s). Starting Data Sourcer copies new statistical parameters to ODS, making them available for you to select when defining the layout templates.

To create a layout template:

1. In DMA, open the Template Creation Wizard. This Wizard contains the following three pages:
  - Common Info
  - Statistics
  - Time Profile
2. On the Common Info page, define the following high-level template attributes, and then click Next:
  - a. In the Object Type list box, select the appropriate object type. For this sample environment, we shall first build a layout template whose object type is Staging Area.
  - b. In the Template Name box, type a unique name that is 10 characters in length or fewer. For this sample environment, we name this template Stage\_CM1.

**Note:** There are numerous restrictions on the name that you can use for a template. Refer to *Reporting 7.6 Data Modeling Assistant Help* for more information.

- c. In the Layout Name box, type a default name for report layouts that use this layout template as their basis. DMA automatically appends a number to this default report-layout name in order to keep report layouts unique. For this sample environment, we use Stage\_CM1 as the default name for report layouts that we shall create at “Stage 4: Create Report Layouts” on [page 60](#).

- d. (Optional) In the *Description* box, type a description of this layout template.
3. In the *Statistics* page, define all of the statistics associated with this layout template, and then click *Next*:
  - a. Click *New* to invoke the *Statistic Wizard*. You must invoke the *Statistic Wizard* for each statistic in the layout template.
  - b. On the *StatTypes* page of the *Statistic Wizard*, select the appropriate stat type in the list, and click *Next*.

To define the `N_ENTER_CM1` metric for this example, select `CM1_Total_Entered_Queue` in the list. Metric definitions for the recommended open media layout templates begin on [page 87](#).

- c. If the *FilterApplicable* check box was checked on the preceding page, on the *Filters* page, select a filter in the list box, if desired, and click *Next*.
- d. On the *Column Info* page, type a unique column name for this metric and click *Finish*. ETL Runtime assigns this name to a column in the Data Mart's `R_N_STAT_RES` table, and this column name appears in your final reports that use this statistic.

---

**Warning!** Data Sourcer cannot validate whether the column name that you specify here already exists in your Data Mart. You yourself must verify its uniqueness. If you do inadvertently designate an already existing name, ETL Runtime will combine this statistic's values with the other's. The column names recommended on [pages 87](#) through [88](#) do not conflict with the column names reserved for the Genesys-provided reports.

---

- e. Repeat [Steps a](#) through [d](#) for each statistic that must be added to the layout template. The `STAGE_CM1` layout template contains the following three statistics, which are based on three statistics in the `STAGE_<MD>` layout template (described on [page 85](#)):
  - `N_ENTER_CM1`
  - `N_MOVED_CM1`
  - `N_FINPROC_CM1`
4. On the *Time Profile* page, select the time profile that you created on [page 53](#)—`CollectorDefault` for this sample environment. Then, click *Finish*.
5. Repeat [Steps 2](#) through [4](#) for the remaining layout templates for one of your custom open media types (`CM1`, in our example).
6. Repeat [Steps 2](#) through [5](#) for the remaining custom open media types in your environment (`CM2` and `CM3`, in this sample environment).

In this sample environment, after you have completed these steps, you should have 18 layout templates—6 for each custom open media type. Refer to *Reporting 7.6 Data Modeling Assistant Help* for additional information about using DMA's Template and Statistic Wizards.

---

## Stage 4: Create Report Layouts

Next, you must create and activate report layouts for the new layout templates that you created so that Data Sourcer can begin collecting data.

### Creating Report Layouts

1. In DMA, open the Layout Creation Wizard. This Wizard contains five pages:
  - Creation Manner
  - Common Info
  - Objects
  - Statistics
  - Time Profile
2. On the Creation Manner page, click Create Layout using the template, select the desired layout template in the list box, and click Next.
3. On the Common Info page, do the following, and then click Next.
  - a. In the Tenants list, select the tenant(s) from which the report layout is to collect data.
  - b. (Optional) In the Layout Name box, change the report-layout name that DMA provides. This name must be unique.
  - c. (Optional) In the Description box, provide a description of this report layout.

---

**Note:** You cannot edit the value in the Object Types box, because this report layout is based on a layout template.

---

4. On the Objects page, specify the objects that Data Sourcer will collect, and then click Next:
  - a. Indicate whether Data Sourcer is to use all objects in a metagroup you will select or whether you will select objects individually by selecting the appropriate radio button.
  - b. In the Tenants/Metagroups list box, select the desired metagroup.
  - c. If you chose to select objects individually, in the Object Type list box, select the specific objects.
5. On the Statistics page, click import to import statistics from the layout template to the report layout.

6. On the Time Profile page, select the time profile that you created on [page 53](#), and click Finish.

## Activating Report Layouts

An inactive report layout appears grayed (dimmed) in the DMA interface. To activate it:

1. Right-click the desired inactive report layout in the folder list.
2. Select Activate in the shortcut menu that appears.

As soon as the report layout is activated, Data Sourcer begins data collection.

Refer to *Reporting 7.6 Data Modeling Assistant Help* for additional information.

---

## Stage 5: Run the Transformation Module

As you create the layout templates for your environment, DMA writes their definitions to ODS, which is a temporary storage area for historical data. However, this information must be propagated to the Data Mart before it can be available for use in the historical views that you set up in CCPulse+. Running ETL Runtime's Transformation module accomplishes this. If you configured your Data Mart application by using all of the default values, the Transformation module automatically starts every minute after every hour; however, you can manually start this module whenever you wish.

To run ETL Runtime's Transformation module manually, issue the following command from the directory in which ETL Runtime is installed:

```
java -jar transform.jar -conf [properties]
```

where:

[properties] is the name of the file that contains a listing of runtime parameters that you can use to effect data transformation (etl.properties, by default).

---

**Note:** There are many runtime parameters that you can set to effect data transformation. Refer to the *Reporting 7.6 ETL Runtime User's Guide* for additional information.

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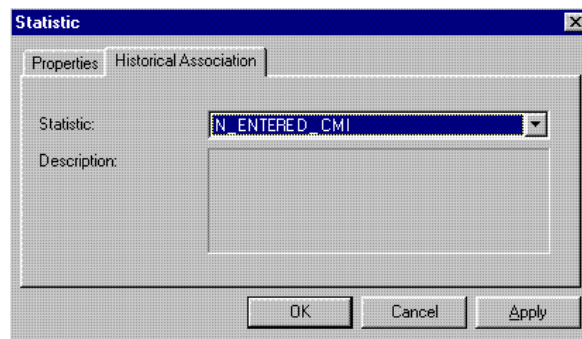
## Stage 6: Associate Historical Metrics to Real-Time Metrics

The historical statistics that you created must be propagated to the Data Mart before you can associate them to their real-time equivalents within CCPulse+.

You can perform a cursory check of whether this propagation has occurred by restarting CCPulse+, visiting the *Historical Association* tab of any statistic, and scanning the *Statistic* drop list for any of historical column names that you created.

To assign a historical metric to its real-time equivalent:

1. Restart CCPulse+, if it is currently running.
2. In CCPulse+, invoke the Template Wizard and, on the *Template Definition* page, select one of the CCPulse+ templates that you created in Stage 2 (page 54). Click *Next*.
3. On the *Predefined Statistics* page, open the properties of one statistic in the *Requested Statistics* frame.
4. On the *Historical Association* tab, select the corresponding historical statistic in the *Statistic* list box, and click *OK*. Refer to the historical assignments listed for each metric beginning on page 77. To continue with this example, we assign *N\_ENTER\_CM1* to the *Entered* metric of the *CM1 Queue Handling* CCPulse+ template, as illustrated in Figure 35.



**Figure 35: Associating Historical to Real-Time Metrics**

5. Repeat Steps 3 and 4 for each metric that can be used for Historical Reporting, and then click *Next*.

The *CM1 Queue Handling* CCPulse+ template contains eight metrics; however, only three of them are historical in nature. These are the following:

- Total Entered
- Total Moved
- Stopped Processing

6. On the *Graph* page, click *Finish*.
7. Repeat Steps 2 through 6, for each CCPulse+ template that you created.

---

# Open Media Statistical Parameters

The forms in this section describe the filters and time profiles that you should create for your open media environment.

**Form Title** The name of the statistical parameter. This name provides the key for parameters by using key-value pairs. The <Media> filter, below, represents the short name of your custom media type.

**Parameter Type** One of two values:

- Filter
- TimeProfile

Stat type parameters that are used for Historical and Real-Time Reporting are described in the *Solution Reporting Templates* book of the *Reporting Technical Reference* series.

**Definition** The definition of the parameter, as stored in Stat Server and ODS.

**Description** A brief description of the parameter.

**Table 1: CollectorDefault**

PARAMETER TYPE TimeProfile	DEFINITION 0:00+0:15
DESCRIPTION This time profile uses a Growing interval type that resets statistics to 0 every 15 minutes. Real-Time Reporting does not use this time profile.	

**Table 2: Default**

PARAMETER TYPE TimeProfile	DEFINITION 0:00
DESCRIPTION This time profile uses a Growing interval type that resets statistics every night at midnight. This time profile is hard-coded in Stat Server and does not appear in any of the Reporting configuration files, such as StatProfile.cfg (used most prominently by the solutions that offer CCPulse+ templates). You can override this definition by creating a time profile named Default within your Stat Server application. By default, Historical Reporting does not use this time profile.	

**Table 3: <Media>**

PARAMETER TYPE Filter	DEFINITION PairExist(MediaType="MediaTypeName")  For example, the definition of the CM1 filter could be PairExist(MediaType="CM1")
DESCRIPTION This filter returns values only when the MediaType parameter matches what you have defined for the particular media filter.	

# Open Media Stat Types

The forms in this section describe the core and extension stat types that you should create for your open media environment.

<b>Form Title</b>	The name of the statistical type. <MD> is used to represent the abbreviated name of your custom media type.
<b>Main Mask</b>	Lists the actions or statuses that Stat Server uses in this statistic's calculation. For example, the Call Answered mask, in concert with the DNAction subject instructs Stat Server to measure answered voice (DN) interactions. One or more main masks must be specified for each stat type.
<b>Relative Mask</b>	Provides an additional list of actions to calculate the statistic (a variable in the statistic category formula). Relative mask specification is optional. Refer to "RelMask" section in the <i>Overview</i> book of the <i>Reporting Technical Reference</i> series for a more detailed explanation.
<b>Aggregation Type</b>	Applicable only if the JavaSubCategory field points to a Java Extension. The Java aggregation types employed in Reporting include: <ul style="list-style-type: none"> <li>• Current</li> <li>• Maximum</li> <li>• Minimum</li> <li>• Total</li> </ul>
<b>Category</b>	Specifies the rule Stat Server uses to aggregate statistics. For instance, for the <a href="#">Interactions_Processed</a> stat type, Stat Server is to sum the number of calls processed to arrive at a total number (Total Number). One, and only one, category must be specified for each stat type. Valid values for open media stat types include the following: <ul style="list-style-type: none"> <li>• CurrentNumber</li> <li>• Total Number</li> <li>• Total Time</li> <li>• JavaCategory</li> </ul>
<b>Subject</b>	All open media core stat types use the Action subject.
<b>JavaSubCategory</b>	Applicable only if the value that is specified in the Category field is JavaCategory. The value in the JavaSubCategory field indicates the name of a Java extension (eServiceInteractionStat.jar) and the Java class that is used therein—for example, OMQ Current in Queue. If no Java extension is indicated, this value reads N/A, for "not applicable".
<b>Object Type(s)</b>	Lists the device objects to which Stat Server actions (main masks) can be applied. For example, the Accepted action can be applied to the Agent, GroupAgents, GroupPlaces, and Place objects for the <a href="#">Interactions_Accepted</a> stat type in order to measure the calls that are accepted by a specified agent, a

specified place, a specified group of agents, or a specified group of places. One or more object types must be specified for each stat type.

<b>MediaType</b>	The name of the custom media type that you create for your custom-media environment.
<b>Similarly Named Stat Types</b>	Lists stat types that are used by the Genesys-provided sample templates for open media and Genesys-provided reports, and that have the same or similar names as suggested to use for the open media custom stat types.
<b>Description</b>	Provides a general description of what a statistic that is defined by using this stat type measures. This section also lists differences in definitions throughout the releases.
<b>Introduced In</b>	Identifies the GA release in which this stat type was first introduced.
<b>Discontinued In</b>	Identifies the first GA release in which this stat type was no longer used in Genesys-provided solution reports. This does not necessarily mean that the stat type is no longer available. If a stat type is still available, this value reads N/A, for “not applicable”.
<b>Formula</b>	Indicates whether the stat type is distinguishable by connection ID. If so, DCID appears. If not, N/A denotes “not applicable”.
<b>Used in Which Reporting Application</b>	One or both of the following: <ul style="list-style-type: none"> <li>• Historical Reporting</li> <li>• Real-Time Reporting</li> </ul>

**Table 4: Current\_Interactions\_In\_Processing**

MAINMASK InteractionHandling		DESCRIPTION The total number of interactions being handled by this resource at the moment of measurement.  Use this stat type only for real-time metrics.	
CATEGORY CurrentNumber	SUBJECT Action		
OBJECT TYPE(S) Agent, GroupAgents, GroupPlaces, Place			
MEDIA TYPE N/A	SIMILARLY NAMED STAT TYPES Current_Interactions_In_Processing		
INTRODUCED IN 7.1	DISCONTINUED IN N/A	FORMULA N/A	USED IN WHICH REPORTING APPLICATION Real-Time Reporting

**Table 5: Inbound\_Interactions\_Stopped**

MAINMASK InteractionStoppedInbound		DESCRIPTION The total number of inbound interactions that were terminated by this resource during the specified period.	
CATEGORY TotalNumber	SUBJECT Action		
OBJECT TYPE(S) Agent, GroupAgents, GroupPlaces, Place			
MEDIA TYPE N/A	SIMILARLY NAMED STAT TYPES Inbound_Interactions_Stopped		
INTRODUCED IN 7.1	DISCONTINUED IN N/A	FORMULA N/A	USED IN WHICH REPORTING APPLICATION Real-Time Reporting, Historical Reporting

**Table 6: Interactions\_Accepted**

MAINMASK InteractionAccepted		DESCRIPTION The total number of interactions that were offered for processing to the resource, and that were accepted during the specified period.	
CATEGORY TotalNumber	SUBJECT Action		
OBJECT TYPE(S) Agent, GroupAgents, GroupPlaces, Place			
MEDIA TYPE N/A	SIMILARLY NAMED STAT TYPES Interactions_Accepted		
INTRODUCED IN 7.1	DISCONTINUED IN N/A	FORMULA N/A	USED IN WHICH REPORTING APPLICATION Real-Time Reporting, Historical Reporting

**Table 7: Interactions\_Offered**

MAINMASK InteractionDeliveringStarted		DESCRIPTION The total number of interactions that were offered for processing to this resource during the specified period.	
CATEGORY TotalNumber	SUBJECT Action		
OBJECT TYPE(S) Agent, GroupAgents, GroupPlaces, Place			
MEDIATYPE N/A	SIMILARLY NAMED STAT TYPES Interactions_Offered		
INTRODUCED IN 7.1	DISCONTINUED IN N/A	FORMULA N/A	USED IN WHICH REPORTING APPLICATION Real-Time Reporting, Historical Reporting

**Table 8: Interactions\_Processed**

MAINMASK InteractionHandling		DESCRIPTION The total number of interactions that were handled by this resource during the specified period.	
CATEGORY TotalNumber	SUBJECT Action		
OBJECT TYPE(S) Agent, GroupAgents, GroupPlaces, Place			
MEDIA TYPE N/A	SIMILARLY NAMED STAT TYPES Interactions_Processed		
INTRODUCED IN 7.1	DISCONTINUED IN N/A	FORMULA N/A	USED IN WHICH REPORTING APPLICATION Real-Time Reporting, Historical Reporting

**Table 9: Interactions\_Processing\_Time**

MAINMASK InteractionHandling		DESCRIPTION The total amount of time that this resource spent handling interactions during the specified period.	
CATEGORY TotalTime	SUBJECT Action		
OBJECT TYPE(S) Agent, GroupAgents, GroupPlaces, Place			
MEDIA TYPE N/A	SIMILARLY NAMED STAT TYPES Interactions_Processing_Time		
INTRODUCED IN 7.1	DISCONTINUED IN N/A	FORMULA N/A	USED IN WHICH REPORTING APPLICATION Real-Time Reporting, Historical Reporting

**Table 10: Interactions\_Rejected**

MAINMASK InteractionRejected		DESCRIPTION The total number of interactions that were offered for processing to this resource, and that were rejected, during the specified period.	
CATEGORY TotalNumber	SUBJECT Action		
OBJECT TYPE(S) Agent, GroupAgents, GroupPlaces, Place			
MEDIA TYPE N/A	SIMILARLY NAMED STAT TYPES Interactions_Rejected		
INTRODUCED IN 7.1	DISCONTINUED IN N/A	FORMULA N/A	USED IN WHICH REPORTING APPLICATION Real-Time Reporting, Historical Reporting

**Table 11: Interactions\_Timed\_Out**

MAINMASK InteractionRevoked		DESCRIPTION The total number of interactions that were accepted, pulled, or created and subsequently revoked by this resource because of prolonged non-activity during the specified period.	
CATEGORY TotalNumber	SUBJECT Action		
OBJECT TYPE(S) Agent, GroupAgents, GroupPlaces, Place			
MEDIA TYPE N/A	SIMILARLY NAMED STAT TYPES Interactions_Timed_Out		
INTRODUCED IN 7.1	DISCONTINUED IN N/A	FORMULA N/A	USED IN WHICH REPORTING APPLICATION Real-Time Reporting, Historical Reporting

**Table 12: <MD>\_Current\_In\_Processing**

MAINMASK N/A		DESCRIPTION  The total number of interactions of the specified media type that have been submitted within the contact center (for single-tenant environments) or within the specified tenant (for multi-tenant environments) and that are currently in processing.  Use this stat type only for real-time metrics.  <b>Note:</b> You must have the eServiceInteraction Stat Server Java Extension loaded in order to use this stat type.	
CATEGORY JavaCategory	SUBJECT N/A		
OBJECT TYPE(S) Tenant			
MEDIATYPE Specify your media.	SIMILARLY NAMED STAT TYPES Current_Interaction_In_Processing Current_Interactions_In_Processing		
INTRODUCED IN 7.1	DISCONTINUED IN N/A	FORMULA N/A	USED IN WHICH REPORTING APPLICATION Real-Time Reporting

**Table 13: <MD>\_Current\_In\_Processing\_In\_Queue**

MAINMASK N/A		DESCRIPTION  The total number of interactions of the specified media type that have been submitted to this staging area and that are currently in processing.  Use this stat type only for real-time metrics.  <b>Note:</b> You must have the eServiceInteraction Stat Server Java Extension loaded in order to use this stat type.	
CATEGORY JavaCategory	SUBJECT N/A		
OBJECT TYPE(S) StagingArea			
MEDIATYPE Specify your media.	SIMILARLY NAMED STAT TYPES Current_Interaction_In_Processing Current_Interactions_In_Processing MediaX_Current_In_Processing_In_Queue		
INTRODUCED IN 7.1	DISCONTINUED IN N/A	FORMULA N/A	USED IN WHICH REPORTING APPLICATION Real-Time Reporting

**Table 14: <MD>\_Current\_In\_Queue**

MAINMASK N/A		DESCRIPTION The total number of interactions of the specified media type within this staging area at the moment of measurement.  Use this stat type only for real-time metrics.  <b>Note:</b> You must have the eServiceInteraction Stat Server Java Extension loaded in order to use this stat type.	
CATEGORY JavaCategory	SUBJECT N/A		
OBJECT TYPE(S) StagingArea			
MEDIATYPE Specify your media.	SIMILARLY NAMED STAT TYPES Current_In_Queue      MediaX_Current_In_Queue		
INTRODUCED IN 7.1	DISCONTINUED IN N/A	FORMULA N/A	USED IN WHICH REPORTING APPLICATION Real-Time Reporting

**Table 15: <MD>\_Current\_Waiting\_Processing**

MAINMASK N/A		DESCRIPTION The total number of interactions of the specified media type that have been submitted within the contact center (for single-tenant environments) or within the specified tenant (for multi-tenant environments), and that are currently awaiting processing.  Use this stat type only for real-time metrics.  <b>Note:</b> You must have the eServiceInteraction Stat Server Java Extension loaded in order to use this stat type.	
CATEGORY JavaCategory	SUBJECT N/A		
OBJECT TYPE(S) Tenant			
MEDIA TYPE <i>Specify your media.</i>	SIMILARLY NAMED STAT TYPES Chat_Current_Waiting General_Email_Waiting_Processing IxnQueue_Email_Waiting_Processing		
INTRODUCED IN 7.1	DISCONTINUED IN N/A	FORMULA N/A	USED IN WHICH REPORTING APPLICATION Real-Time Reporting

**Table 16: <MD> Current Waiting Processing In Queue**

MAINMASK N/A		DESCRIPTION The total number of interactions of the specified media type that have been submitted to this staging area and that are currently awaiting processing.  Use this stat type only for real-time metrics.  <b>Note:</b> You must have the eServiceInteraction Stat Server Java Extension loaded in order to use this stat type.	
CATEGORY JavaCategory	SUBJECT N/A		
OBJECT TYPE(S) StagingArea			
MEDIATYPE <i>Specify your media.</i>		SIMILARLY NAMED STAT TYPES General_Email_Waiting_Processing IxnQueue_Email_Waiting_Processing MediaX_Current_Waiting_Processing_In_Queue	
INTRODUCED IN 7.1	DISCONTINUED IN N/A	FORMULA N/A	USED IN WHICH REPORTING APPLICATION Real-Time Reporting

**Table 17:  $\langle MD \rangle$  Maximum Interactions**

MAINMASK N/A		DESCRIPTION The maximum number of interactions of the specified media type that either were awaiting processing or were in processing within the contact center (for single-tenant environments) or within the specified tenant (for multi-tenant environments) during the specified period.  Use this stat type only for real-time metrics.  <b>Note:</b> You must have the eServiceInteraction Stat Server Java Extension loaded in order to use this stat type.	
CATEGORY JavaCategory	SUBJECT N/A		
OBJECT TYPE(S) Tenant			
MEDIA TYPE <i>Specify your media.</i>	SIMILARLY NAMED STAT TYPES Maximum_Calls      lxnQueue_Email_Maximum      General_Email_Maximum		
INTRODUCED IN 7.1	DISCONTINUED IN N/A	FORMULA N/A	USED IN WHICH REPORTING APPLICATION Real-Time Reporting

**Table 18: <MD>\_Maximum\_Interactions\_In\_Queue**

MAINMASK N/A		DESCRIPTION  The maximum number of interactions of the specified media type that either were awaiting processing or were in processing within this staging area during the specified period.  Use this stat type only for real-time metrics.  <b>Note:</b> You must have the eServiceInteraction Stat Server Java Extension loaded in order to use this stat type.	
CATEGORY JavaCategory	SUBJECT N/A		
OBJECT TYPE(S) StagingArea			
MEDIATYPE <i>Specify your media.</i>	SIMILARLY NAMED STAT TYPES General_Email_Maximum IxnQueue_Email_Maximum Maximum_Calls MediaX_Maximum_Interactions_In_Queue		
INTRODUCED IN 7.1	DISCONTINUED IN N/A	FORMULA N/A	USED IN WHICH REPORTING APPLICATION Real-Time Reporting

**Table 19: <MD>\_Minimum\_Interactions**

MAINMASK N/A		DESCRIPTION  The minimum number of interactions of the specified media type that were either waiting processing or were in processing within the contact center (for single-tenant environments) or within the specified tenant (for multi-tenant environments) within the specified period.  <b>Note:</b> You must have the eServiceInteraction Stat Server Java Extension loaded in order to use this stat type.	
CATEGORY JavaCategory	SUBJECT N/A		
OBJECT TYPE(S) Tenant			
MEDIATYPE Specify your media.	SIMILARLY NAMED STAT TYPES General_Email_Maximum IxnQueue_Email_Minimum Minimum_Calls		
INTRODUCED IN 7.1	DISCONTINUED IN N/A	FORMULA N/A	USED IN WHICH REPORTING APPLICATION Real-Time Reporting

**Table 20: <MD>\_Minimum\_Interactions\_In\_Queue**

MAINMASK N/A		DESCRIPTION The minimum number of interactions of the specified media type that were either waiting processing or in processing within this staging area within the specified period.  <b>Note:</b> You must have the eServiceInteraction Stat Server Java Extension loaded in order to use this stat type.	
CATEGORY JavaCategory	SUBJECT N/A		
OBJECT TYPE(S) StagingArea			
MEDIATYPE Specify your media.	SIMILARLY NAMED STAT TYPES General_Email_Maximum IxnQueue_Email_Minimum Minimum_Calls MediaX_Minimum_Interactions_In_Queue		
INTRODUCED IN 7.1	DISCONTINUED IN N/A	FORMULA N/A	USED IN WHICH REPORTING APPLICATION Real-Time Reporting

**Table 21: <MD>\_Stopped\_Processing\_Queue**

MAINMASK N/A		DESCRIPTION  The total number of interactions of the specified media type that stopped processing while in this staging area during the specified period.  <b>Note:</b> You must have the eServiceInteraction Stat Server Java Extension loaded in order to use this stat type.	
CATEGORY JavaCategory	SUBJECT N/A		
OBJECT TYPE(S) StagingArea			
MEDIA TYPE <i>Specify your media.</i>	SIMILARLY NAMED STAT TYPES MediaX_Stopped_Processing_In_Queue		
INTRODUCED IN 7.1	DISCONTINUED IN N/A	FORMULA N/A	USED IN WHICH REPORTING APPLICATION Real-Time Reporting, Historical Reporting

**Table 22: <MD>\_Total\_Entered**

MAINMASK N/A		DESCRIPTION The total number of interactions of the specified media type that entered through all entry points within the contact center (for single-tenant environments) or within the specified tenant (for multi-tenant environments) during the specified period.  <b>Note:</b> You must have the eServiceInteraction Stat Server Java Extension loaded in order to use this stat type.	
CATEGORY JavaCategory	SUBJECT N/A		
OBJECT TYPE(S) Tenant			
MEDIATYPE Specify your media.	SIMILARLY NAMED STAT TYPES CallsEntered Chat_Total_Entered General_Email_Entered IxnQueue_Email_Entered Total_Calls_Entered Total_Entered		
INTRODUCED IN 7.1	DISCONTINUED IN N/A	FORMULA N/A	USED IN WHICH REPORTING APPLICATION Real-Time Reporting, Historical Reporting

**Table 23: <MD>\_Total\_Entered\_Queue**

MAINMASK N/A		DESCRIPTION The total number of interactions of the specified media type that entered this staging area during the specified period.  <b>Note:</b> You must have the eServiceInteraction Stat Server Java Extension loaded in order to use this stat type.	
CATEGORY JavaCategory	SUBJECT N/A		
OBJECT TYPE(S) StagingArea			
MEDIA TYPE Specify your media.	SIMILARLY NAMED STAT TYPES Chat_Total_Entered MediaX_Total_Entered_Queue Total_Calls_Entered Total_Entered		
INTRODUCED IN 7.1	DISCONTINUED IN N/A	FORMULA N/A	USED IN WHICH REPORTING APPLICATION Real-Time Reporting, Historical Reporting

**Table 24: <MD>\_Total\_Moved\_From\_Queue**

MAINMASK N/A		DESCRIPTION  The total number of interactions of the specified media type that were moved from this staging area to any other staging area during the specified period.  <b>Note:</b> You must have the eServiceInteraction Stat Server Java Extension loaded in order to use this stat type.	
CATEGORY JavaCategory	SUBJECT N/A		
OBJECT TYPE(S) StagingArea			
MEDIATYPE Specify your media.	SIMILARLY NAMED STAT TYPES IxnQueue_Email_Moved MediaX_Total_Moved_From_Queue		
INTRODUCED IN 7.1	DISCONTINUED IN N/A	FORMULA N/A	USED IN WHICH REPORTING APPLICATION Real-Time Reporting, Historical Reporting

**Table 25: <MD>\_Total\_Transfers**

MAINMASK N/A		DESCRIPTION  The total number of times that interactions of the specified media type were transferred within the contact center (for single-tenant environments) or within the specified tenant (for multi-tenant environments) during the specified period.  <b>Note:</b> You must have the eServiceInteraction Stat Server Java Extension loaded in order to use this stat type.	
CATEGORY JavaCategory	SUBJECT N/A		
OBJECT TYPE(S) Tenant			
MEDIA TYPE <i>Specify your media.</i>	SIMILARLY NAMED STAT TYPES Transfers_Made      Chat_Total_Transfers Transfers_Taken      General_Email_Transfers		
INTRODUCED IN 7.1	DISCONTINUED IN N/A	FORMULA N/A	USED IN WHICH REPORTING APPLICATION Real-Time Reporting, Historical Reporting

**Table 26: Total\_Number1\_Transfers\_Made**

MAINMASK InteractionTransferMade		DESCRIPTION The total number of transfers made by this resource during the specified period.	
CATEGORY TotalNumber	SUBJECT Action		
OBJECT TYPE(S) Agent, GroupAgents, GroupPlaces, Place			
MEDIATYPE N/A	SIMILARLY NAMED STAT TYPES Transfers_Made		
INTRODUCED IN 7.1	DISCONTINUED IN N/A	FORMULA N/A	USED IN WHICH REPORTING APPLICATION Real-Time Reporting, Historical Reporting

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# Open Media CCPulse+ Templates

The forms in this section describe the CCPulse+ templates that you should create for your open media environment.

<b>Form Title</b>	The name of the CCPulse+ template. <MD> is used to represent the abbreviated name of your custom media type.
<b>Solution</b>	Identifies the Genesys products that provide the template.
<b>Introduced In</b>	Identifies the GA release in which this template was first introduced.
<b>Discontinued In</b>	Identifies the first GA release in which this template was no longer available. Where a template is still available, this value reads N/A, for “not applicable”.
<b>Statistical Groups and Statistics</b>	Lists all statistics defined to each template and their statistical grouping. For example, in the <MD> Queue Handling template, Total Number is the statistical group and Entered, Moved, and Stopped Processing are the statistics that belong to that group.
<b>Description</b>	Provides a synopsis of what a generated view that is based on this template conveys. This field also describes some general metrics changes that occurred between releases.

**Table 27: <MD> Queue Handling**

SOLUTION		INTRODUCED IN 7.1	DISCONTINUED IN N/A
TOTAL NUMBER Entered Moved Stopped Processing	CURRENT NUMBER In Queue Waiting Processing In Processing Maximum Interac- tions Minimum Interac- tions		
DESCRIPTION Collects metrics related to the number of interactions of a specific media type that are processed within a staging area.			

**Table 28: <MD> Agent Handling**

SOLUTION		INTRODUCED IN 7.1	DISCONTINUED IN N/A
TOTAL NUMBER Offered Accepted Rejected Terminated Transferred Timed Out Finished Processing	CURRENT NUMBER In Processing	TOTAL TIME Processing Time	AVERAGE TIME Average Processing Time
DESCRIPTION Collects metrics related to the number of interactions of a specific media type that an agent, place, or group thereof processes.			

**Table 29: <MD> General Handling**

SOLUTION		INTRODUCED IN 7.1	DISCONTINUED IN N/A
TOTAL NUMBER Entered Transferred	CURRENT NUMBER Maximum Interactions Minimum Interactions In Processing Waiting Processing		
DESCRIPTION Collects metrics related to the number of interactions of a specific media type that are processed within the contact center (for a single-tenant environment) or within a specific tenant (for multi-tenant environments).			

# Open Media Real-Time Metrics

The forms in this section describe the real-time metrics that you should create for your open media environment. Real-time metrics are defined by the stat types on which they are built, and by a filter, if applied. Refer to “Open Media Statistical Parameters” on [page 63](#) for the definitions and descriptions of the filters that are used.

<b>Form Title</b>	The alias name of the CCPulse+ metric.
<b>Stat Type</b>	Identifies the Stat Server statistical type that this metric obeys. The Stat Type definition fields cannot be edited; they display the four options that define the statistical type in the configuration of Stat Server.
<b>Statistical Group</b>	Lists the statistical grouping under which the metric falls.
<b>Solution</b>	Identifies the Genesys products that measure and report on values for this metric.
<b>Notification Frequency</b>	Defines how often, in seconds, Stat Server should recalculate the metric and notify CCPulse+ if the metric has changed by more than the specified insensitivity.
<b>Insensitivity</b>	Describes a condition for receiving an update of a metric value for an object monitored in the view.
<b>Filter</b>	Identifies the filter applied to this metric.
<b>Time Range</b>	N/A for this release of open media templates.
<b>Time Range 1</b>	N/A for this release of open media templates.
<b>Interval Type</b>	Defines the time profile for this metric.
<b>Time Profile</b>	Identifies the name of the time profile as specified in the TimeProfiles section of the supporting Stat Server Application object. Time profiles specify the interval over which historical aggregate values are calculated.
<b>Format</b>	Defines the time or number format for the metric. Either hh:mm:ss or 0.
<b>Introduced In</b>	Identifies the GA release in which this metric was first introduced.
<b>Discontinued In</b>	Identifies the first GA release in which this metric was no longer available. If a metric is still available, this value reads N/A, for “not applicable”.
<b>Historical Association</b>	The comparable metric found in the Data Mart. Click this value to read more information about the historical metric. This value reads N/A if this metric has no historical equivalent.
<b>Calling Template</b>	The CCPulse+ template(s) in which this metric can be found.
<b>Description</b>	Provides a general description of what a report that uses this metric measures.

**Table 30: Accepted**

STAT TYPE Interactions_Accepted		STATISTICAL GROUP Total Number		SOLUTION		NOTIFICATION FREQUENCY 10 seconds	INSENSITIVITY 1
FILTER <Media>	TIME RANGE N/A	TIME RANGE 1 N/A	INTERVAL TYPE Growing	TIME PROFILE Default	FORMAT 0	INTRODUCED IN 7.1	DISCONTINUED IN N/A
HISTORICAL ASSOCIATION N_ACCEPT_<MD>		DESCRIPTION This metric represents the total number of interactions of the specified media type that were offered for processing to an agent, a place, or group thereof and that were accepted during a specific time period.					
CALLING TEMPLATE <MD> Agent Handling							

**Table 31: Average Processing Time**

STAT TYPE N/A		STATISTICAL GROUP Average Time		SOLUTION		NOTIFICATION FREQUENCY N/A	INSENSITIVITY N/A
FILTER N/A	TIME RANGE N/A	TIME RANGE 1 N/A	INTERVAL TYPE N/A	TIME PROFILE N/A	FORMAT hh:mm:ss	INTRODUCED IN 7.1	DISCONTINUED IN N/A
HISTORICAL ASSOCIATION N/A		<div>DESCRIPTION</div> <div>This metric represents the average amount of time that an agent, place, or group thereof spent handling interactions.</div> <div>CCPulse+ calculates this metric from the values of the Processing Time and Finished Processing CCPulse+ metrics using this formula:</div> <div>ccpul se. group("Total Time"). stati stic("Processing Time") /</div> <div>ccpul se. group("Total Number"). stati stic("Finished Processing")</div>					
CALLING TEMPLATE <MD> Agent Handling							

Entered<sub>[1]</sub>

STAT TYPE <MD>_Total_Entered_Queue		STATISTICAL GROUP Total Number		SOLUTION		NOTIFICATION FREQUENCY 60 seconds	INSENSITIVITY 1
FILTER N/A	TIME RANGE N/A	TIME RANGE 1 N/A	INTERVAL TYPE Growing	TIME PROFILE Default	FORMAT 0	INTRODUCED IN 7.1	DISCONTINUED IN N/A
HISTORICAL ASSOCIATION N_ENTER_<MD>		DESCRIPTION This metric represents the total number of interactions of a specific media type that entered a staging area during a specific time period.					
CALLING TEMPLATE <MD> Queue Handling							

Entered<sub>[2]</sub>

STAT TYPE <MD>_Total_Entered		STATISTICAL GROUP Total Number		SOLUTION		NOTIFICATION FREQUENCY 60 seconds	INSENSITIVITY 1
FILTER N/A	TIME RANGE N/A	TIME RANGE 1 N/A	INTERVAL TYPE Growing	TIME PROFILE Default	FORMAT 0	INTRODUCED IN 7.1	DISCONTINUED IN N/A
HISTORICAL ASSOCIATION N_ENTERCC_<MD>		DESCRIPTION This metric represents the total number of interactions of a specific media type that entered from all entry points during a specific time period.					
CALLING TEMPLATE <MD> General Handling							

**Table 32: Finished Processing**

STAT TYPE Interactions_Processed		STATISTICAL GROUP Total Number		SOLUTION		NOTIFICATION FREQUENCY 10 seconds	INSENSITIVITY 1
FILTER <Media>	TIME RANGE N/A	TIME RANGE 1 N/A	INTERVAL TYPE Growing	TIME PROFILE Default	FORMAT 0	INTRODUCED IN 7.1	DISCONTINUED IN N/A
HISTORICAL ASSOCIATION N_PROCESS_<MD>		DESCRIPTION This metric represents the total number of interactions handled by an agent, a place, or group thereof during a specific time period.					
CALLING TEMPLATE <MD> Agent Handling							

## In Processing<sub>[1]</sub>

STAT TYPE Current_Interactions_In _Processing		STATISTICAL GROUP Current Number		SOLUTION		NOTIFICATION FREQUENCY 2 seconds	INSENSITIVITY 1
FILTER <Media>	TIME RANGE N/A	TIME RANGE 1 N/A	INTERVAL TYPE Growing	TIME PROFILE Default	FORMAT 0	INTRODUCED IN 7.1	DISCONTINUED IN N/A
HISTORICAL ASSOCIATION N/A		DESCRIPTION This metric represents the current number of interactions of a particular media type that were offered for processing to an agent, a place, or group thereof during a specific time period.					
CALLING TEMPLATE <MD> Agent Handling							

## In Processing<sub>[2]</sub>

STAT TYPE <MD>_Current_In_Pro cessing_In_Queue		STATISTICAL GROUP Current Number		SOLUTION		NOTIFICATION FREQUENCY 60 seconds	INSENSITIVITY 1
FILTER N/A	TIME RANGE N/A	TIME RANGE 1 N/A	INTERVAL TYPE Growing	TIME PROFILE Default	FORMAT 0	INTRODUCED IN 7.1	DISCONTINUED IN N/A
HISTORICAL ASSOCIATION N/A		DESCRIPTION This metric represents the total number of interactions of a particular media type that have been submitted and that are currently in processing.					
CALLING TEMPLATE <MD> Queue Handling							

## In Processing<sub>[3]</sub>

STAT TYPE <MD>_Current_In_Processing		STATISTICAL GROUP Current Number		SOLUTION		NOTIFICATION FREQUENCY 60 seconds	INSENSITIVITY 1
FILTER N/A	TIME RANGE N/A	TIME RANGE 1 N/A	INTERVAL TYPE Growing	TIME PROFILE Default	FORMAT 0	INTRODUCED IN 7.1	DISCONTINUED IN N/A
HISTORICAL ASSOCIATION N/A		DESCRIPTION This metric represents the total number of interactions of a particular media type that have been submitted within the contact center (for single-tenant environments) or within the specified tenant (for multi-tenant environments) and that are currently in processing.					
CALLING TEMPLATE <MD> General Handling							

**Table 33: In Queue**

STAT TYPE <MD>_Current_In_Queue		STATISTICAL GROUP Current Number		SOLUTION		NOTIFICATION FREQUENCY 60 seconds	INSENSITIVITY 1
FILTER N/A	TIME RANGE N/A	TIME RANGE 1 N/A	INTERVAL TYPE Growing	TIME PROFILE Default	FORMAT 0	INTRODUCED IN 7.1	DISCONTINUED IN N/A
HISTORICAL ASSOCIATION N/A		DESCRIPTION This metric represents the current number of interactions of a particular media type in a queue.					
CALLING TEMPLATE <MD> Queue Handling							

## Maximum Interactions<sub>[1]</sub>

STAT TYPE <MD>_Maximum_Interactions_In_Queue		STATISTICAL GROUP Current Number		SOLUTION		NOTIFICATION FREQUENCY 60 seconds	INSENSITIVITY 1
FILTER N/A	TIME RANGE N/A	TIME RANGE 1 N/A	INTERVAL TYPE Growing	TIME PROFILE Default	FORMAT 0	INTRODUCED IN 7.1	DISCONTINUED IN N/A
HISTORICAL ASSOCIATION N/A		DESCRIPTION This metric represents the maximum number of interactions of a particular media type that were either waiting processing or in were processing during a specific time period.					
CALLING TEMPLATE <MD> Queue Handling							

## Maximum Interactions<sub>[2]</sub>

STAT TYPE <MD>_Maximum_Interactions		STATISTICAL GROUP Current Number		SOLUTION		NOTIFICATION FREQUENCY 60 seconds	INSENSITIVITY 1
FILTER N/A	TIME RANGE N/A	TIME RANGE 1 N/A	INTERVAL TYPE Growing	TIME PROFILE Default	FORMAT 0	INTRODUCED IN 7.1	DISCONTINUED IN N/A
HISTORICAL ASSOCIATION N/A		DESCRIPTION This metric represents the maximum number of interactions of a particular media type that were either waiting processing or were in processing during a specific time period.					
CALLING TEMPLATE <MD> General Handling							

## Minimum Interactions<sub>[1]</sub>

STAT TYPE <MD>_Minimum_Interactions_In_Queue		STATISTICAL GROUP Current Number		SOLUTION		NOTIFICATION FREQUENCY 60 seconds	INSENSITIVITY 1
FILTER N/A	TIME RANGE N/A	TIME RANGE 1 N/A	INTERVAL TYPE Growing	TIME PROFILE Default	FORMAT 0	INTRODUCED IN 7.1	DISCONTINUED IN N/A
HISTORICAL ASSOCIATION N/A		DESCRIPTION This metric represents the minimum number of interactions of a particular media type that either were awaiting processing or were in processing within a specific queue during a specific time period.					
CALLING TEMPLATE <MD> Queue Handling							

Minimum Interactions<sup>[2]</sup>

STAT TYPE <MD>_Minimum_Interac tions		STATISTICAL GROUP Current Number		SOLUTION		NOTIFICATION FREQUENCY 60 seconds	INSENSITIVITY 1
FILTER N/A	TIME RANGE N/A	TIME RANGE 1 N/A	INTERVAL TYPE Growing	TIME PROFILE Default	FORMAT 0	INTRODUCED IN 7.1	DISCONTINUED IN N/A
HISTORICAL ASSOCIATION N/A		DESCRIPTION This metric represents the minimum number of interactions of a particular media type that either were awaiting processing or were in processing within the contact center (for single-tenant environments) or within a specific tenant (for multi-tenant environments) during a specific time period.					
CALLING TEMPLATE <MD> General Han- dling							

Table 34: Moved

STAT TYPE <MD>_Total_Moved_From_Queue		STATISTICAL GROUP Total Number		SOLUTION		NOTIFICATION FREQUENCY 60 seconds	INSENSITIVITY 1
FILTER N/A	TIME RANGE N/A	TIME RANGE 1 N/A	INTERVAL TYPE Growing	TIME PROFILE Default	FORMAT 0	INTRODUCED IN 7.1	DISCONTINUED IN N/A
HISTORICAL ASSOCIATION N_MOVED_<MD>		DESCRIPTION This metric represents the total number of interactions of a particular media type that were moved from a particular staging area to any other staging area during a specific time period.					
CALLING TEMPLATE <MD> Queue Handling							

Table 35: Offered

STAT TYPE Interactions_Offered		STATISTICAL GROUP Total Number		SOLUTION		NOTIFICATION FREQUENCY 10 seconds	INSENSITIVITY 1
FILTER <Media>	TIME RANGE N/A	TIME RANGE 1 N/A	INTERVAL TYPE Growing	TIME PROFILE Default	FORMAT 0	INTRODUCED IN 7.1	DISCONTINUED IN N/A
HISTORICAL ASSOCIATION N_OFFERED_<MD>		DESCRIPTION This metric represents the total number of interactions that were offered for processing to an agent, a place, or group thereof during a specific time period.					
CALLING TEMPLATE <MD> Agent Handling							

Table 36: Processing Time

STAT TYPE Interactions_Processing_Time		STATISTICAL GROUP Total Time		SOLUTION		NOTIFICATION FREQUENCY 10 seconds	INSENSITIVITY 1
FILTER <Media>	TIME RANGE N/A	TIME RANGE 1 N/A	INTERVAL TYPE Growing	TIME PROFILE Default	FORMAT hh:m m:ss	INTRODUCED IN 7.1	DISCONTINUED IN N/A
HISTORICAL ASSOCIATION T_PROCTIME_<MD>		DESCRIPTION This metric represents the total amount of time that an agent, place, or group thereof spent handling interactions during a specific time period.					
CALLING TEMPLATE <MD> Agent Handling							

**Table 37: Rejected**

STAT TYPE Interactions_Rejected		STATISTICAL GROUP Total Number		SOLUTION		NOTIFICATION FREQUENCY 10 seconds	INSENSITIVITY 1
FILTER <Media>	TIME RANGE N/A	TIME RANGE 1 N/A	INTERVAL TYPE Growing	TIME PROFILE Default	FORMAT 0	INTRODUCED IN 7.1	DISCONTINUED IN N/A
HISTORICAL ASSOCIATION N_REJECT_<MD>		DESCRIPTION This metric represents the total number of interactions that were offered for processing to this resource and that were rejected during the specified period.					
CALLING TEMPLATE <MD> Agent Handling							

**Table 38: Stopped Processing**

STAT TYPE <MD>_Stopped_Processing_Queue		STATISTICAL GROUP Total Number		SOLUTION		NOTIFICATION FREQUENCY 60 seconds	INSENSITIVITY 1
FILTER N/A	TIME RANGE N/A	TIME RANGE 1 N/A	INTERVAL TYPE Growing	TIME PROFILE Default	FORMAT 0	INTRODUCED IN 7.1	DISCONTINUED IN N/A
HISTORICAL ASSOCIATION N_FINPROC_<MD>		DESCRIPTION This metric represents the total number of interactions of a particular media type that stopped processing during a specific time period.					
CALLING TEMPLATE <MD> Queue Handling							

**Table 39: Terminated**

STAT TYPE Inbound_Interactions_Stopped		STATISTICAL GROUP Total Number		SOLUTION		NOTIFICATION FREQUENCY 10 seconds	INSENSITIVITY 1
FILTER <Media>	TIME RANGE N/A	TIME RANGE 1 N/A	INTERVAL TYPE Growing	TIME PROFILE Default	FORMAT 0	INTRODUCED IN 7.1	DISCONTINUED IN N/A
HISTORICAL ASSOCIATION N_TERM_<MD>		DESCRIPTION This metric represents the total number of inbound interactions that were terminated by an agent, a place, or group thereof during a specific time period.					
CALLING TEMPLATE <MD> Agent Handling							

**Table 40: Timed Out**

STAT TYPE Interactions_Timed_Out		STATISTICAL GROUP Total Number		SOLUTION		NOTIFICATION FREQUENCY 10 seconds	INSENSITIVITY 1
FILTER <Media>	TIME RANGE N/A	TIME RANGE 1 N/A	INTERVAL TYPE Growing	TIME PROFILE Default	FORMAT 0	INTRODUCED IN 7.1	DISCONTINUED IN N/A
HISTORICAL ASSOCIATION N_TIMEOUT_<MD>		DESCRIPTION This metric represents the total number of interactions that were accepted, pulled, or created, and subsequently revoked by an agent, place, or group thereof because of prolonged non-activity during a specific time period.					
CALLING TEMPLATE <MD> Agent Handling							

Transferred<sub>[1]</sub>

STAT TYPE Total_Number_Transfers_Made		STATISTICAL GROUP Total Number		SOLUTION		NOTIFICATION FREQUENCY 10 seconds	INSENSITIVITY
FILTER <Media>	TIME RANGE N/A	TIME RANGE 1 N/A	INTERVAL TYPE Growing	TIME PROFILE Default	FORMAT 0	INTRODUCED IN 7.1	DISCONTINUED IN N/A
HISTORICAL ASSOCIATION N_TRNSFRD_<MD>		DESCRIPTION This metric represents the total number of transfers made by an agent, a place, or group thereof during a specific time period.					
CALLING TEMPLATE <MD> Agent Handling							

Transferred<sub>[2]</sub>

STAT TYPE <MD>_Total_Transfers		STATISTICAL GROUP Total Number		SOLUTION		NOTIFICATION FREQUENCY 60 seconds	INSENSITIVITY 1
FILTER N/A	TIME RANGE N/A	TIME RANGE 1 N/A	INTERVAL TYPE Growing	TIME PROFILE Default	FORMAT 0	INTRODUCED IN 7.1	DISCONTINUED IN N/A
HISTORICAL ASSOCIATION N_TRNFRCC_<MD>		DESCRIPTION This metric represents the total number of times that interactions of a particular media type were transferred within the contact center (for single-tenant environments) of within the tenant (for multi-tenant environments) during a specific time period.					
CALLING TEMPLATE <MD> General Handling							

Waiting Processing<sub>[1]</sub>

STAT TYPE <MD>_Current_Waiting _Processing_In_Queue		STATISTICAL GROUP Current Num- ber		SOLUTION		NOTIFICATION FREQUENCY 60 seconds	INSENSITIVITY 1
FILTER N/A	TIME RANGE N/A	TIME RANGE 1 N/A	INTERVAL TYPE Growing	TIME PROFILE Default	FORMAT 0	INTRODUCED IN 7.1	DISCONTINUED IN N/A
HISTORICAL ASSOCIATION N/A		DESCRIPTION This metric represents the total number of interactions of a particular media type that have been submitted to the staging area and that are currently awaiting pro- cessing.					
CALLING TEMPLATE <MD> Queue Handling							

Waiting Processing<sub>[2]</sub>

STAT TYPE <MD>_Current_Waiting _Processing		STATISTICAL GROUP Current Number		SOLUTION		NOTIFICATION FREQUENCY 60 seconds		INSENSITIVITY 1	
FILTER N/A	TIME RANGE N/A	TIME RANGE 1 N/A	INTERVAL TYPE Growing	TIME PROFILE Default	FORMAT 0	INTRODUCED IN 7.1		DISCONTINUED IN N/A	
HISTORICAL ASSOCIATION N/A		DESCRIPTION This metric represents the total number of interactions of a particular media type that have been submitted within the contact center (for single-tenant environments) or within a specific tenant (for multi-tenant environments), and are that currently awaiting processing.							
CALLING TEMPLATE <MD> General Handling									

# Open Media ODS Layout Templates

The forms in this section describe the historical layout templates that you should create for your open media environment. ODS layout template names must be unique. Furthermore, they are restricted to 10 characters in length. The layout template names in this section do not conflict with the names of layout templates used in the Genesys-provided reports.

<b>Form Title</b>	The name of the ODS layout template. <MD> is used to represent the abbreviated name of your custom media type.
<b>Object Type</b>	Displays the object type to which this layout template applies.
<b>Default Report Layout Name</b>	Shows the name that Data Sourcer assigns to report layouts that are based on this layout template. If you set Data Sourcer to automatically generate report layouts, Data Sourcer adds a unique number to the default report layout name, so that you can easily identify it. Data Modeling Assistant also uses this Data Sourcer-assigned default name, but you can change this name as desired.
<b>Number of Statistics</b>	A count of the statistics listed under Stat Column Name. This number is useful in verifying proper configuration.
<b>Stat Column Name</b>	A listing of the column names that appear in the Stat Result tables of the Data Mart for folder templates that are based on this ODS layout template. Click any item in this field to read information about the corresponding statistic.
<b>Description</b>	Briefly describes what data a report layout that is based on this layout template collects.
<b>Based in Which Source</b>	One of the following: <ul style="list-style-type: none"> <li>Stat Server</li> <li>Stat Server Java Extension</li> </ul>
<b>Current Version</b>	The version number of the specific layout template.
<b>Introduced In</b>	Identifies the GA release in which this layout template was first introduced.
<b>Discontinued In</b>	Identifies the first GA release in which this template was no longer available. If a template is still available, this value reads N/A, for “not applicable”.

**Table 41: AG\_<MD>**

OBJECT TYPE Agent	DEFAULT REPORT LAYOUT NAME <Media> Agent Layout	NUMBER OF STATISTICS 8
STAT COLUMN NAME N_ACCEPT_<MD>      N_PROCESS_<MD>      N_TERM_<MD>      N_TRNSFRD_<MD> N_OFFERED_<MD>      N_REJECT_<MD>      N_TIMEOUT_<MD>      T_PROCTIME_<MD>		
DESCRIPTION Specifies the metrics to be collected for agents handling interactions of a particular media type.		BASED IN WHICH SOURCE Stat Server
CURRENT VERSION 7.2	INTRODUCED IN 7.1	DISCONTINUED IN N/A

**Table 42: CC\_<MD>**

OBJECT TYPE Tenant	DEFAULT REPORT LAYOUT NAME <Media> Tenant Layout	NUMBER OF STATISTICS 2
STAT COLUMN NAME N_ENTERCC_<MD>      N_TRNFRCC_<MD>		
DESCRIPTION Specifies metrics that provide the total number of interactions of a particular media type that entered, left, or were completed within a contact center (for single-tenant environments) or within a specific tenant (for multi-tenant environments).		BASED IN WHICH SOURCE Stat Server Java Extension
CURRENT VERSION 7.2	INTRODUCED IN 7.1	DISCONTINUED IN N/A

**Table 43: GA\_<MD>**

OBJECT TYPE Group of Agents	DEFAULT REPORT LAYOUT NAME <Media> Agent Group Layout	NUMBER OF STATISTICS 8
STAT COLUMN NAME N_ACCEPT_<MD>      N_PROCESS_<MD>      N_TERM_<MD>      N_TRNSFRD_<MD> N_OFFERED_<MD>      N_REJECT_<MD>      N_TIMEOUT_<MD>      T_PROCTIME_<MD>		
DESCRIPTION Specifies the metrics to be collected for a group of agents handling interactions of a particular media type.		BASED IN WHICH SOURCE Stat Server
CURRENT VERSION 7.2	INTRODUCED IN 7.1	DISCONTINUED IN N/A

**Table 44: GP\_<MD>**

OBJECT TYPE Group of Places	DEFAULT REPORT LAYOUT NAME <Media> Place Group Layout	NUMBER OF STATISTICS 8
STAT COLUMN NAME N_ACCEPT_<MD>      N_PROCESS_<MD>      N_TERM_<MD>      N_TRNSFRD_<MD> N_OFFERED_<MD>      N_REJECT_<MD>      N_TIMEOUT_<MD>      T_PROCTIME_<MD>		
DESCRIPTION Specifies the metrics to be collected for a group of places in which interactions of a particular media type are handled.		BASED IN WHICH SOURCE Stat Server
CURRENT VERSION 7.2	INTRODUCED IN 7.1	DISCONTINUED IN N/A

**Table 45: PL\_<MD>**

OBJECT TYPE Place	DEFAULT REPORT LAYOUT NAME <Media> Place Layout	NUMBER OF STATISTICS 8
STAT COLUMN NAME N_ACCEPT_<MD>      N_PROCESS_<MD>      N_TERM_<MD>      N_TRNSFRD_<MD> N_OFFERED_<MD>      N_REJECT_<MD>      N_TIMEOUT_<MD>      T_PROCTIME_<MD>		
DESCRIPTION Specifies the metrics to be collected for a place in which interactions of a particular media type are handled.		BASED IN WHICH SOURCE Stat Server
CURRENT VERSION 7.2	INTRODUCED IN 7.1	DISCONTINUED IN N/A

**Table 46: STAGE\_<MD>**

OBJECT TYPE StagingArea	DEFAULT REPORT LAYOUT NAME <Media> Staging Area Layout	NUMBER OF STATISTICS 3
STAT COLUMN NAME N_ENTER_<MD>      N_MOVED_<MD>      N_FINPROC_<MD>		
DESCRIPTION Specifies metrics that provide the total number of interactions of a particular media type that entered, left, or were completed within a staging area.		BASED IN WHICH SOURCE Stat Server Java Extension
CURRENT VERSION 7.2	INTRODUCED IN 7.1	DISCONTINUED IN N/A

# Open Media Historical Metrics/Data Mart Metrics

The forms in this section describe the historical metrics that you should create for your open media environment. Historical metrics are defined by the stat types on which they are based, and by a filter, if applied. Refer to “Open Media Statistical Parameters” on [page 63](#) for the definitions and descriptions of the filters used.

<b>Form Title</b>	The name of a column in the Data Mart that stores the value of this metric. <MD> is used to represent the abbreviated name of your custom media type.
<b>Stat Type Name</b>	The name of the stat type on which this metric is based. See the “Statistical Type” section in the <i>Overview</i> book of the <i>Reporting Technical Reference</i> series for an in-depth discussion of stat types.
<b>Introduced In</b>	Identifies the GA release in which this metric was first introduced. All metrics are available in the current release.
<b>Solution</b>	The name of the Genesys solution for which this metric can be used.
<b>Description</b>	Provides a hyperlink to the “ <a href="#">Open Media Stat Types</a> ” section, in which the stat type on which this metric is based is fully defined.
<b>Parameter</b>	Either N/A, for “not applicable” or <Media>, designating the name of your custom media type.
<b>Used by the Following ODS Layout Templates</b>	Lists the custom ODS layout templates that contain this metric.

**Table 47: N\_ACCEPT\_<MD>**

STAT TYPE NAME <a href="#">Interactions_Accepted</a>	SOLUTION	INTRODUCED IN 7.1	PARAMETER Filter: <a href="#">&lt;Media&gt;</a>
USED BY THE FOLLOWING ODS LAYOUT TEMPLATES <a href="#">AG_&lt;MD&gt;</a> <a href="#">GA_&lt;MD&gt;</a> <a href="#">GP_&lt;MD&gt;</a> <a href="#">PL_&lt;MD&gt;</a>			
DESCRIPTION Refer to <a href="#">Interactions_Accepted</a> in the “Open Media Stat Types” section for a complete description.			

**Table 48: N\_ENTER\_<MD>**

STAT TYPE NAME <a href="#">&lt;MD&gt;_Total_Entered_Queue</a>	SOLUTION	INTRODUCED IN 7.1	PARAMETER N/A
USED BY THE FOLLOWING ODS LAYOUT TEMPLATES <a href="#">STAGE_&lt;MD&gt;</a>			
DESCRIPTION Refer to <a href="#">&lt;MD&gt;_Total_Entered_Queue</a> in the “Open Media Stat Types” section for a complete description.			

**Table 49: N\_ENTERCC\_<MD>**

STAT TYPE NAME <a href="#">&lt;MD&gt;_Total_Entered</a>	SOLUTION	INTRODUCED IN 7.1	PARAMETER N/A
USED BY THE FOLLOWING ODS LAYOUT TEMPLATES <a href="#">CC_&lt;MD&gt;</a>			
DESCRIPTION Refer to <a href="#">&lt;MD&gt;_Total_Entered</a> in the “Open Media Stat Types” section for a complete description.			

**Table 50: N\_FINPROC\_<MD>**

STAT TYPE NAME <a href="#">&lt;MD&gt;_Stopped_Processing_Queue</a>	SOLUTION	INTRODUCED IN 7.1	PARAMETER N/A
USED BY THE FOLLOWING ODS LAYOUT TEMPLATES <a href="#">STAGE_&lt;MD&gt;</a>			
DESCRIPTION Refer to <a href="#">&lt;MD&gt;_Stopped_Processing_Queue</a> in the “Open Media Stat Types” section for a complete description.			

**Table 51: N\_MOVED\_<MD>**

STAT TYPE NAME <a href="#">&lt;MD&gt;_Total_Moved_From_Queue</a>	SOLUTION	INTRODUCED IN 7.1	PARAMETER N/A
USED BY THE FOLLOWING ODS LAYOUT TEMPLATES <a href="#">STAGE_&lt;MD&gt;</a>			
DESCRIPTION Refer to <a href="#">&lt;MD&gt;_Total_Moved_From_Queue</a> in the “Open Media Stat Types” section for a complete description.			

**Table 52: N\_TRNFRCC\_<MD>**

STAT TYPE NAME <a href="#">&lt;MD&gt;_Total_Transfers</a>	SOLUTION	INTRODUCED IN 7.1	PARAMETER N/A
USED BY THE FOLLOWING ODS LAYOUT TEMPLATES <a href="#">CC_&lt;MD&gt;</a>			
DESCRIPTION Refer to <a href="#">&lt;MD&gt;_Total_Transfers</a> in the “Open Media Stat Types” section for a complete description.			

**Table 53: N\_OFFERED\_<MD>**

STAT TYPE NAME <a href="#">Interactions_Offered</a>	SOLUTION	INTRODUCED IN 7.1	PARAMETER Filter: <Media>
USED BY THE FOLLOWING ODS LAYOUT TEMPLATES <a href="#">AG_&lt;MD&gt;</a> <a href="#">GA_&lt;MD&gt;</a> <a href="#">GP_&lt;MD&gt;</a> <a href="#">PL_&lt;MD&gt;</a>			
DESCRIPTION Refer to <a href="#">Interactions_Offered</a> in the “Open Media Stat Types” section for a complete description.			

**Table 54: N\_PROCESS\_<MD>**

STAT TYPE NAME <a href="#">Interactions_Processed</a>	SOLUTION	INTRODUCED IN 7.1	PARAMETER Filter: <Media>
USED BY THE FOLLOWING ODS LAYOUT TEMPLATES <a href="#">AG_&lt;MD&gt;</a> <a href="#">GA_&lt;MD&gt;</a> <a href="#">GP_&lt;MD&gt;</a> <a href="#">PL_&lt;MD&gt;</a>			
DESCRIPTION Refer to <a href="#">Interactions_Processed</a> in the “Open Media Stat Types” section for a complete description.			

**Table 55: N\_REJECT\_<MD>**

STAT TYPE NAME <a href="#">Interactions_Rejected</a>	SOLUTION	INTRODUCED IN 7.1	PARAMETER Filter: <Media>
USED BY THE FOLLOWING ODS LAYOUT TEMPLATES <a href="#">AG_&lt;MD&gt;</a> <a href="#">GA_&lt;MD&gt;</a> <a href="#">GP_&lt;MD&gt;</a> <a href="#">PL_&lt;MD&gt;</a>			
DESCRIPTION Refer to <a href="#">Interactions_Rejected</a> in the “Open Media Stat Types” section for a complete description.			

**Table 56: N\_TERM\_<MD>**

STAT TYPE NAME <a href="#">Inbound_Interactions_Stopped</a>	SOLUTION	INTRODUCED IN 7.1	PARAMETER Filter: <Media>
USED BY THE FOLLOWING ODS LAYOUT TEMPLATES <a href="#">AG_&lt;MD&gt;</a> <a href="#">GA_&lt;MD&gt;</a> <a href="#">GP_&lt;MD&gt;</a> <a href="#">PL_&lt;MD&gt;</a>			
DESCRIPTION Refer to <a href="#">Inbound_Interactions_Stopped</a> in the “Open Media Stat Types” section for a complete description.			

**Table 57: N\_TIMEOUT\_<MD>**

STAT TYPE NAME <a href="#">Interactions_Timed_Out</a>	SOLUTION	INTRODUCED IN 7.1	PARAMETER Filter: <Media>
USED BY THE FOLLOWING ODS LAYOUT TEMPLATES <a href="#">AG_&lt;MD&gt;</a> <a href="#">GA_&lt;MD&gt;</a> <a href="#">GP_&lt;MD&gt;</a> <a href="#">PL_&lt;MD&gt;</a>			
DESCRIPTION Refer to <a href="#">Interactions_Timed_Out</a> in the “Open Media Stat Types” section for a complete description.			

**Table 58: N\_TRNSFRD\_<MD>**

STAT TYPE NAME <a href="#">Total_Numberl_Transfers_Made</a>	SOLUTION	INTRODUCED IN 7.1	PARAMETER Filter: <Media>
USED BY THE FOLLOWING ODS LAYOUT TEMPLATES <a href="#">AG_&lt;MD&gt;</a> <a href="#">GA_&lt;MD&gt;</a> <a href="#">GP_&lt;MD&gt;</a> <a href="#">PL_&lt;MD&gt;</a>			
DESCRIPTION Refer to <a href="#">Total_Numberl_Transfers_Made</a> in the “Open Media Stat Types” section for a complete description.			

**Table 59: T\_PROCTIME\_<MD>**

STAT TYPE NAME <a href="#">Interactions_Processing_Time</a>	SOLUTION	INTRODUCED IN 7.1y	PARAMETER Filter: <a href="#">&lt;Media&gt;</a>
USED BY THE FOLLOWING ODS LAYOUT TEMPLATES <a href="#">AG_&lt;MD&gt;</a> <a href="#">GA_&lt;MD&gt;</a> <a href="#">GP_&lt;MD&gt;</a> <a href="#">PL_&lt;MD&gt;</a>			
DESCRIPTION Refer to <a href="#">Interactions_Processing_Time</a> in the “Open Media Stat Types” section for a complete description.			

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# Customizing the Genesys-Provided Sample Media Templates

To provide you with a faster method of creating open media reports, beginning with the release 7.2, Genesys offers on the Reporting Templates CD two sample open media real-time templates:

- Media X Queue Template
- Media X Resource Template

The Media X Queue Template provides data for objects of type StagingArea (referred to as Interaction Queue in the CCPulse+ interface). The Media X Resource Template provides data for agent-related objects, such as agents, agent groups, places, and place groups.

You can review descriptions of these two templates—and the metrics and statistical parameters of which they are composed—in the *Solution Reporting Templates* book of the *Reporting Technical Reference* series. Use instructions in this section to create media-specific templates from the provided samples and build corresponding real-time reports.

## Determining Media Name

The media name in your custom templates must match the name that is specified for this media in the Configuration Layer. You must use the exact media for both interaction queue and agent-related reports.

To verify the name of the media for which you are creating open media templates:

1. In Configuration Manager, open the Business Attributes > Media Type > Attribute Values folder under your particular Tenant (in a multi-tenant environment) or under Resources (in a single-tenant environment).
2. Open the properties of your Media Type object.
3. On the General tab, check the Name property value and make a note of it. For example, the name that is configured for the Media EMail is email.
4. Repeat [Steps 2](#) and [3](#) for every media type on which you need to report.

## Creating an Open Media Report on an Agent

To create an open media report on agent-related objects, such as an agent, group of agents, place, or group of places, you must perform the following major steps:

1. Create a filter for a particular media type, similar to a Genesys-provided Media X filter. (See [“Creating a Filter for Your Media”](#) for detailed instructions.)

2. Create a new template that is based on the Media X Resource Template. (See [“Creating a Resource Template for Your Media”](#) for detailed instructions.)
3. Create a CCPulse+ real-time view that is based on the template that you created for the particular media. (See [“Creating an Agent-Based Report”](#) on [page 92](#) for detailed instructions.)

## Creating a Filter for Your Media

The filter for your media type must mimic the syntax of the Genesys-provided filter for open media, Media\_X. If you need to report on more than one type of media, create a separate filter for each media type.

To create a filter for your particular media:

1. In Configuration Manager, open the properties of your Stat Server Application object.
2. On the Options tab, locate the Filters section.
3. Open the section, and locate the Media\_X filter. The option value that is specified for this filter is PairExist("MediaType", "x").
4. In the Filters section, create a new filter with the name and value reflecting your media type.

For example, for the Media EMail, set the name to Media\_email and set the value to PairExist("MediaType", "email").

5. Repeat [Step 4](#) for every media type on which you need to report.
6. Click OK.

## Creating a Resource Template for Your Media

To create a resource (agent-related) template for a particular media type:

1. Locate the CCPulse+ storage file (the default name is Templates.stg) and change permissions for this file to at least Write.
2. Restart CCPulse+, if it is running.
3. Log in to CCPulse+ by using an account with the Administrator rank for the Application objects of the Call Center Pulse type. (Otherwise, the Template Wizard button is not active.)
4. In CCPulse+, start the Template Wizard. This Wizard contains three screens:
  - Template Definition
  - Pre-defined Statistics
  - Graph

5. On the Template Definition page:
  - a. In the Available Object Types frame, select Agent, Agent Place, Group of Agents, and Group of Places.
  - b. In the Available Templates frame, select Media X Resource Template.
  - c. In the Options frame, select Create from selected template.
  - d. Click Next.
6. On the Pre-defined Statistics page:
  - a. In the Template Name box, type a unique name, keeping it under 25 characters. For example, for the Media EMail, name the template EMail Resource Template.
  - b. In the Requested Statistics frame, select the Media X Resource group and click Rename under the Requested Statistics frame. Change the group name appropriately; for example, EMail Resource.
  - c. For each non-formula-based statistic in the Requested Statistics frame, click Properties under the Requested Statistics frame. This opens the Statistic dialog box.
  - d. In the Filter field in the Statistic dialog box, select the filter for a particular media that you created for this statistic in “Creating a Filter for Your Media” on [page 91](#). In the Media EMail example, the filter is Media\_email.
  - e. Click OK.
7. On the Graph page, configure how graphs are to appear in the CCPulse+ views that you create based on this template, and then click Finish.
8. At the message prompt, click OK.

## Creating an Agent-Based Report

To create a report for any agent-related object, for a particular media type:

1. In the Call Center Objects frame in the main CCPulse+ window, select the object on which you need to report. This can be an agent, a group of agents, a place, or a group of places.
2. Right-click the selected object, and select Create Real-Time View in the context menu.
3. In the Real-Time Data Template dialog box that appears, select the agent-related template for your particular media that you created in “Creating a Resource Template for Your Media” on [page 91](#).
4. Click OK.

## Creating an Open Media Report on an Interaction Queue

To create an open media report on an Interaction Queue, you must perform these major steps:

1. Create stat types for a particular media type, similar to Genesys-provided Media X stat types. (See [“Creating Stat Types for Your Media”](#) for detailed instructions.)
2. Create a new template that is based on the Media X Queue Template. (See [“Creating an Interaction Queue Template”](#) for detailed instructions.)
3. Create a CCPulse+ real-time view that is based on the template that you created for the particular media. (See [“Creating an Interaction Queue Report”](#) for detailed instructions.)

### Creating Stat Types for Your Media

Before creating a template for an Interaction Queue, based on the Media X Queue Template, modify the following stat types or create duplicates for your particular media:

- Medi aX\_Current\_In\_Processing\_In\_Queue
- Medi aX\_Maximum\_Interactions\_In\_Queue
- Medi aX\_Minimum\_Interactions\_In\_Queue
- Medi aX\_Stopped\_Processing\_In\_Queue
- Medi aX\_Total\_Entered\_Queue
- Medi aX\_Total\_Moved\_From\_Queue

If you need to report on more than one type of media, create a separate set of stat types for each media type.

To modify a Media X stat type in Configuration Manager:

1. On the Options tab of your Stat Server Application object, select a section that is named after a particular stat type—for example, Medi aX\_Current\_In\_Processing\_In\_Queue.
2. Click the Edit Section/Option icon and change the stat type name so that it reflects your media name. To continue with the Media EMail example, change Medi aX\_Current\_In\_Processing\_In\_Queue to Medi a\_email\_Current\_In\_Processing\_In\_Queue.

**Note:** If you prefer to keep Media X stat types for future reference, create a set of six new stat types for your media instead of modifying the Genesys-provided stat types.

3. Open the stat type configuration section by double-clicking the stat type name.
4. Change the value of the MediaType parameter to your media name. For example, change x to email.

5. Click Apply.
6. Repeat [Steps 1](#) through [5](#) for all remaining Media X stat types.
7. Click OK.

## Creating an Interaction Queue Template

To create an Interaction Queue template for a particular media type:

1. Check that the permissions for the CCPulse+ storage file (the default name is `Templates.stg`) are set to at least Write.
2. Restart CCPulse+, if it is running.
3. Log in to CCPulse+ by using an account with the Administrator rank for the Application objects of the Call Center Pulse type. (Otherwise, the Template Wizard button is not active.)
4. In CCPulse+, start the Template Wizard. This Wizard contains three screens:
  - Template Definition
  - Pre-defined Statistics
  - Graph
5. On the Template Definition page:
  - a. Select Interaction Queue in the Available Object Types frame.

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Note: Interaction Queue is CCPulse+'s alias for the StagingArea object type.

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- b. In the Available Templates frame, select Media X Queue Template.
  - c. In the Options frame, select Create from selected template.
  - d. Click Next.
6. On the Pre-defined Statistics page:
  - a. In the Template Name box, type a unique name, keeping it under 25 characters. For example, name the template `EMail Queue Template`.
  - b. In the Requested Statistics frame, select Media X Queue group and click Rename under the Requested Statistics frame. Change the group name appropriately; for example, `EMail Queue`.
  - c. For each statistic in the Requested Statistics frame, click Properties under the Requested Statistics frame. This opens the Statistic dialog box.
  - d. In the Statistical type field in the Statistic dialog box, select the stat type for a particular media that you created for this statistic in “Creating Stat Types for Your Media” on [page 93](#).
  - e. Click OK.

7. On the Graph page, configure how graphs are to appear in the CCPulse+ views that you created based on this template, and then click **Finish**.
8. At the message prompt, click **OK**.

## Creating an Interaction Queue Report

To create a report for an Interaction Queue, for a particular media type:

1. In the **Call Center Objects** frame in the main CCPulse+ window, under **Scripts**, select the **Interaction Queue** object on which you need to report.
2. Right-click the **Interaction Queue** object and select **Create Real-Time View** in the context menu.
3. In the **Real-Time Data Template** dialog box that appears, select the **Interaction Queue** template for your particular media that you created in “Creating an Interaction Queue Template” on [page 94](#).
4. Click **OK**.





## Appendix

# Managing Statistical Parameters

The statistical parameters that you can customize include filters, stat types, time ranges, and time profiles. Each can be defined in a near-infinite number of ways. Refer to Chapter 2, “Creating Custom Stat Types,” on [page 15](#), and Chapter 4, “Creating Custom Filters,” on [page 27](#), for customization examples. Other parameters that contribute to the definition of a statistic—such as actions, statistical categories, subjects, object statuses, and local or source timestamps—are not customizable *per se*, but they are variable. Predefined values are available for you to select from, for each to affect how Stat Server will calculate a statistic. These choices are documented in the *Framework Stat Server User’s Guide*.

The statistical parameters that you customize can service both CCPulse+ and CC Analyzer. With the exception of time profiles, these parameters are all defined within the Data Collection Services. (You can define new time profiles either within the Data Collection Services when you are customizing layout templates or within the Data Mart Services when you are customizing report layouts.)

You can use the Genesys Configuration Manager or Data Modeling Assistant (DMA) to create statistical parameters; however, there are some limitations with regard to editing and deleting them that will affect the choice of tool that you should use. In the following sections, this chapter describes how Reporting handles statistical parameters that are defined by either tool:

- [Deciding Which Tool to Use, page 98](#)
- [Managing Statistical Parameters for Historical Reporting, page 99](#)
- [Managing Statistical Parameters for Real-Time Reporting, page 101](#)
- [Synchronizing Parameters, page 101](#)

## Deciding Which Tool to Use

Depending on whether statistical values are sourced from a Stat Server Java Extension or directly from Stat Server itself—and depending on which task you want to perform, related to statistical parameter management—there are advantages to using DMA over Configuration Manager, and vice versa. In one special scenario, neither tool can be used; parameter management must occur within the ODS database. [Table 60](#) summarizes which application you should use to accomplish the task.

**Table 60: Managing Statistical Parameters**

Task to Be Performed		Use ...		
		Config Manager	DMA	ODS
Core Stat Param	Create a stat parameter	✓	✓	
	Edit an unused stat parameter	✓	✓	
	Edit a used stat parameter		✓	
	Delete a stat parameter		✓	
Java Stat Param <sup>a</sup>	Create a stat type	✓		
	Edit a stat type <sup>b</sup>	✓		✓
	Delete a stat type	✓		✓

- Java statistical parameters are sourced from a Stat Server Java Extension and are applicable only to stat-type statistical parameters.
- Editing a Java-based stat type is simulated by deleting the stat type and then recreating it with the same name.

The next section provides more details about why it is preferable to manage statistical parameters by using one tool over another.

# Managing Statistical Parameters for Historical Reporting

## Creating New Core Parameters

When formulating requests for statistical data from Stat Server, Data Sourcer references the statistical parameter definitions that are stored in its ODS database. Each time that Data Sourcer starts, however, it scans Configuration Server for new statistical parameters that were created using Configuration Manager within the corresponding Stat Server application. Data Sourcer writes their definitions to ODS. If Data Sourcer is already running when new statistical parameters are defined to Configuration Server, there is a period of time before Data Sourcer becomes aware of these new definitions.

When you create statistical parameters using DMA, DMA immediately writes their definitions to both Configuration Server and ODS.

For immediate availability, therefore, Genesys recommends that you use the constructor dialog boxes within DMA to create statistical parameters—with one exception. For stat type statistical parameters that are based on Stat Server Java Extensions, you *must* use Configuration Server. Java-related attributes are not accessible in DMA.

## Creating New Java Parameters

Of the four parameter types, a Stat Server Java Extension (SSJE) affects only the stat-type statistical parameter. No filter, time-range, or time-profile definitions are supplied or supported by any Genesys -provided SSJE. The definition of a SSJE stat type (or Java stat type) includes both the special Category attribute—JavaCategory—and the JavaSubCategory attribute that points to a function inside a Java archive. The E-mail Queue CCPulse+ template, for example, includes the Waiting Processing statistic that is built on the General\_Email\_Waiting\_Processing Java stat type:

```
[General_Email_Waiting_Processing]
Category=JavaCategory
JavaSubCategory=eServiceInteractionStat.jar:GEHR Current Waiting Processing
...
```

Because these two stat type attributes are not accessible via the StatType Constructor dialog box in DMA, you can only use Configuration Manager to create Java stat types.

## Editing Existing Core Parameters

When you edit a statistical parameter using DMA, DMA writes the changed definition to both ODS and Configuration Server. Data Sourcer then uses this updated definition when it requests relevant statistics from Stat Server.

When you edit a statistical parameter using Configuration Manager, however, and if that parameter is being used in a currently opened request for the statistic, Data Sourcer stores the altered definition to ODS, but it does not update its request for the statistic with the new definition—and for good reason. This behavior is designed to maintain control within DMA/Data Sourcer as the single source of change for Historical Reporting parameters and to maintain the integrity of the data that has already been collected with data that is to be collected in the future.

After Data Sourcer initially reads configuration data and requests a certain statistic to be opened by Stat Server, Data Sourcer *never* picks up the definitions of statistical parameters that are currently used in calculations and that you have changed within Configuration Server—even if you invoke DMA's Synchronize feature, which is described on [page 101](#).

In the scenario in which you edit a statistical parameter that is included in an unopened statistic, Data Sourcer picks up the updated parameter definition and uses it when it sends an open-statistic request to Stat Server. When you change a statistical parameter before the statistic has been opened, you do not have to restart Data Sourcer.

## Editing Existing Java Parameters

Because Data Sourcer *never* picks up the definitions of Java stat types that are currently used in calculations, editing a Java stat type after the statistic has been opened (for Historical Reporting purposes) can be simulated only by deleting the stat type and then recreating it by using the altered definition.

Furthermore, in this scenario, you must stop and restart Data Sourcer so that it re-reads configuration data and sends new requests to Stat Server for a statistic that includes the edited parameter. If, however, the statistic has not been opened, Data Sourcer will pick up the stat type definition that you edit in Configuration Server, and you do not need to restart Data Sourcer.

## Deleting Core Parameters

Deleting a statistical parameter within DMA is possible only if the parameter is not used in any report layout or layout template. When you delete a statistical parameter using DMA, DMA immediately removes that parameter from both Configuration Server and ODS.

When you delete a parameter using Configuration Manager, however, the parameter remains in the ODS, but Data Sourcer is unable to use any relevant statistics that rely on the parameter. Furthermore, upon using DMA's

synchronization feature, DMA rewrites the parameter and its definition to Configuration Server, by using the definition that is stored in ODS. For this reason, Genesys recommends that you use DMA to delete parameters that are used for Historical Reporting—if you must delete them at all.

## Deleting Java Parameters

For unwanted Stat Server Java Extension stat types, you must both delete them from Configuration Server by using Configuration Manager and manually remove them from ODS. Contact Genesys Technical Support for assistance with the latter task.

---

# Managing Statistical Parameters for Real-Time Reporting

For real-time metrics, CCPulse+ references definitions that are stored in the corresponding Stat Server application within Configuration Server. You cannot create, edit, or delete statistical parameters by using CCPulse+. You must use Configuration Server.

---

## Synchronizing Parameters

DMA's Synchronize feature is a slight misnomer—this “synchronization” occurs unidirectionally. When you issue this command, Data Sourcer overwrites the statistical parameter definitions in Configuration Server with those stored in ODS. You cannot use this feature to overwrite ODS parameter definitions with those that are stored in Configuration Server.

Furthermore, DMA does not enable you to specify which parameter definitions it will overwrite; it overwrites all of them. Because of the lack of this parameter-by-parameter confirmation, Genesys recommends that you carefully analyze whether to perform synchronization at all.

Because Data Sourcer reads new parameters, and not changed parameters, from Configuration Server, keep the following in mind if you need to edit the definition of an extension stat type that you created in Configuration Server after Data Sourcer has already read its definition:

- Data Sourcer will not recognize any change that you make to the stat type within Configuration Server.
- You cannot edit this stat type definition within DMA (because the MediaType and Java-related attributes are not accessible in DMA).
- If you perform a synchronization, Data Sourcer overwrites Configuration Server's definition of the stat type with ODS's definition.

If you needed to edit an extension stat type after Data Sourcer has read its definition, you would have to delete the stat type definition both from Configuration Server and manually within ODS. Contact Genesys Technical Support for assistance, should this event occur.



## Supplements

# Related Documentation Resources

The following resources provide additional information that is relevant to this software. Consult these additional resources as necessary.

## Reporting

- The *Reporting 7.6 Deployment Guide*, which provides step-by-step instructions for configuring and installing the Reporting components.
- The *Reporting 7.6 Reference Manual*, which provides general information about performance measurements, how Reporting behaves during time shifts, and how to set up custom reports for skills-based and partial-period reporting.
- The *Reporting 7.5 CCPulse+ Help*, which contains detailed instructions for using CCPulse+ features and functions.
- The *Reporting 7.5 CCPulse+ Administrator's Guide*, which presents information on customizing and troubleshooting your CCPulse+ application. It also includes tables showing which historical statistics link with which real-time statistics for all statistics included in the solution templates.
- The *Reporting 7.6 Data Sourcer User's Guide*, which describes the role Data Sourcer plays in your Reporting environment and includes the Configuration Server objects Data Sourcer tracks, how it organizes data, and how to fine-tune configuration and troubleshoot problems.
- The *Reporting 7.6 Data Modeling Assistant Help*, which explains how to import and export templates, create new statistical parameters, and create new layout templates and report layouts.
- The *Reporting 7.6 ETL Assistant Help*, which describes how ETL Assistant manages metadata in the Data Mart and allows you to view information about the results of data transformation and aggregation from different sources.

- The *Reporting 7.6 ETL Runtime User's Guide*, which describes the role that ETL Runtime plays in your Reporting environment. It includes a discussion of ETL Runtime's modules, the runtime parameters, options you can set to fine-tune configuration, and how to schedule ETL Runtime processes.

## T-Server

- The *Genesys Events and Models Reference Manual* and *T-Library SDK 7.2 C Developer's Guide* (its predecessor) which provides detailed information on T-Server features and functions.

## Framework

- The *Framework Stat Server User's Guide*, which describes Stat Server architecture and functions, configuration steps and options, installation procedures, and statistical definitions and formulas.

## Genesys

- The *Genesys Technical Publications Glossary*, which ships on the Genesys Documentation Library DVD and which provides a comprehensive list of the Genesys and computer-telephony integration (CTI) terminology and acronyms used in this document.
- The *Genesys Migration Guide*, which ships on the Genesys Documentation Library DVD, and which provides documented migration strategies for Genesys product releases. Contact Genesys Technical Support for more information.
- The Release Notes and Product Advisories for this product, which are available on the Genesys Technical Support website at <http://genesyslab.com/support>.

Information about supported hardware and third-party software is available on the Genesys Technical Support website in the following documents:

- [Genesys Supported Operating Environment Reference Manual](#)
- [Genesys Supported Media Interfaces Reference Manual](#)

Consult these additional resources as necessary:

- The *Genesys Hardware Sizing Guide*, which provides information about Genesys hardware sizing guidelines for the Genesys 8.x releases.
- The *Genesys Interoperability Guide*, which provides information on the compatibility of Genesys products with various Configuration Layer Environments; Interoperability of Reporting Templates and Solutions; and Gplus Adapters Interoperability.

- The *Genesys Database Sizing Estimator 7.6 Worksheets*, which provides a range of expected database sizes for various Genesys products.

For additional system-wide planning tools and information, see the release-specific listings of System Level Documents on the Genesys Technical Support website, accessible from the [system level documents by release](#) tab in the Knowledge Base Browse Documents Section.

Genesys product documentation is available on the:

- Genesys Technical Support website at <http://genesyslab.com/support>.
- Genesys Documentation Library DVD, which you can order by e-mail from Genesys Order Management at [orderman@genesyslab.com](mailto:orderman@genesyslab.com).

# Document Conventions

This document uses certain stylistic and typographical conventions—introduced here—that serve as shorthands for particular kinds of information.

## Document Version Number

A version number appears at the bottom of the inside front cover of this document. Version numbers change as new information is added to this document. Here is a sample version number:

76tr\_customization\_08-2012\_v7.6.101.00

You will need this number when you are talking with Genesys Technical Support about this product.

## Screen Captures Used in This Document

Screen captures from the product graphical user interface (GUI), as used in this document, may sometimes contain minor spelling, capitalization, or grammatical errors. The text accompanying and explaining the screen captures corrects such errors *except* when such a correction would prevent you from installing, configuring, or successfully using the product. For example, if the name of an option contains a usage error, the name would be presented exactly as it appears in the product GUI; the error would not be corrected in any accompanying text.

## Type Styles

[Table 61](#) describes and illustrates the type conventions that are used in this document.

**Table 61: Type Styles**

Type Style	Used For	Examples
Italic	<ul style="list-style-type: none"> <li>Document titles</li> <li>Emphasis</li> <li>Definitions of (or first references to) unfamiliar terms</li> <li>Mathematical variables</li> </ul> <p>Also used to indicate placeholder text within code samples or commands, in the special case where angle brackets are a required part of the syntax (see the note about angle brackets on <a href="#">page 107</a>).</p>	<p>Please consult the <i>Genesys Migration Guide</i> for more information.</p> <p>Do <i>not</i> use this value for this option.</p> <p>A <i>customary and usual</i> practice is one that is widely accepted and used within a particular industry or profession.</p> <p>The formula, <math>x + 1 = 7</math> where <math>x</math> stands for . . .</p>

**Table 61: Type Styles (Continued)**

Type Style	Used For	Examples
Monospace font (Looks like teletype or typewriter text)	<p>All programming identifiers and GUI elements. This convention includes:</p> <ul style="list-style-type: none"> <li>The <i>names</i> of directories, files, folders, configuration objects, paths, scripts, dialog boxes, options, fields, text and list boxes, operational modes, all buttons (including radio buttons), check boxes, commands, tabs, CTI events, and error messages.</li> <li>The values of options.</li> <li>Logical arguments and command syntax.</li> <li>Code samples.</li> </ul> <p>Also used for any text that users must manually enter during a configuration or installation procedure, or on a command line.</p>	<p>Select the Show variables on screen check box.</p> <p>In the Operand text box, enter your formula.</p> <p>Click OK to exit the Properties dialog box.</p> <p>T-Server distributes the error messages in EventError events.</p> <p>If you select true for the inbound-bsns-calls option, all established inbound calls on a local agent are considered business calls.</p> <p>Enter exit on the command line.</p>
Square brackets ([ ])	A particular parameter or value that is optional within a logical argument, a command, or some programming syntax. That is, the presence of the parameter or value is not required to resolve the argument, command, or block of code. The user decides whether to include this optional information.	smcp_server -host [/flags]
Angle brackets (< >)	<p>A placeholder for a value that the user must specify. This might be a DN or a port number specific to your enterprise.</p> <p><b>Note:</b> In some cases, angle brackets are required characters in code syntax (for example, in XML schemas). In these cases, italic text is used for placeholder values.</p>	smcp_server -host <confighost>





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