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Orchestration Server Deployment Guide

Direct Statistic Definition

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Direct Statistic Definition

Starting with ORS 8.1.400.45, the `_genesys.statistic.sData` function is enhanced to allow you to directly define statistic parameters in the SCXML routing strategy code via a JavaScript object passed as an input parameter. This enhancement is useful when strategy logic requires statistic parameters to dynamically change.

Background: Configuration Server currently stores statistic parameters as Transaction/Statistic objects in its database. Previous to this enhancement, if a strategy requested a statistic, it could only use the `_genesys.statistic.sData` function with the name of the Transaction/Statistic object in the Configuration Database defined as a string input parameter.

Statistic Parameters in JavaScript Object

[+] Statistic Parameters in JavaScript Object

JavaScript Object Properties

```
{
  Params: {},
  Extensions: {}
}
```

Properties of "Params":

Property	StatServer API meaning	Mandatory	Type
MainActionsMask Value must be defined as a string containing Stat Server Action names, delimited by a comma. Action names are the same as used in the configuration of Statistical Types in Stat Server. Wildcard(*) and logical NOT(~) character are supported. See the Stat Server 8.1 User's Guide , section "Statistical Type Sections", table 9, "MainMask" and "RelMask".	SRequestParams.MainActionsMask	Yes (if not statistic of JavaCategory)	String
RelActionsMask Same as above for Value	SRequestParams.RelActionsMask	Yes	String
Category	SRequestParams.Category	Yes	String

Property	StatServer API meaning	Mandatory	Type
Values are the same as used in the configuration of Statistical Types in Stat Server. All rules, applicable for corresponding options are supported. See the <i>Stat Server 8.1 User's Guide</i> .			
Interval Contains the interval type as a string. See the <i>Stat Server 8.1 User's Guide</i> , "TimeProfiles section", table 1) – Sliding, Growing, Selection, SinceLogin.	SRequestParams.Interval	Yes	String
TimeRange2Start Starting point of time range in seconds. See the "Stat Server 8.1 User's Guide", "TimeRanges section".	SRequestParams.tmStart	Yes for ServiceFactor category, not applicable otherwise.	Number
TimeRange2End End of time range in seconds. See the <i>Stat Server 8.1 User's Guide</i> , "TimeRanges section".	SRequestParams.tmEnd	Yes for ServiceFactor category, not applicable otherwise.	Number
Subject	SRequestParams.Subject	Yes (if not statistic of JavaCategory)	String
TimeRangeStart Starting point of time range in seconds. See the <i>Stat Server 8.1 User's Guide</i> , "TimeRanges section".	SRequestParams.tmLeftRangeLimit	Yes, if category requires it. Optional otherwise.	Number
TimeRangeEnd End of time range in seconds. See the <i>Stat Server 8.1 User's Guide</i> , "TimeRanges section".	SRequestParams.tmLeftRangeLimit	Yes, if category requires it. Optional otherwise	Number

Properties of "Extensions":

Property	StatServer API meaning	Mandatory	Type
DynamicFilter Contains a filter expression. See the <i>Stat Server User's Guide</i> ,	SOpenStatEx, pExtensions->"DynamicFilter"	No	String

Property	StatServer API meaning	Mandatory	Type
"Filters section".			
DynamicTimeProfile Contains a time profile expression. See the <i>Stat Server User's Guide</i> , "TimeProfiles section".	SOpenStatEx, pExtensions->"DynamicTimeProfile"	No	String
DynamicUserDataFormula See the <i>Stat Server 8.1 User's Guide</i> , "Custom Formulas" section.	SOpenStatEx, pExtensions->"DynamicUserDataFormula"	No	String
DynamicFormula Not supported in current version of Stat Server.	SOpenStatEx, pExtensions->"DynamicFormula"	No	String
JavaStats	SOpenStatEx, pExtensions->"JavaStats".Type shall be described as JavaScript object with the structure as shown Under Type .	Yes, if category requires it. Not applicable otherwise.	{ JavaExtension: "", JavaSubCategory: "" }

Sample Statistic Definitions

[+] Sample Statistic Definitions

_genesys.statistic.sData Function with Statistic Definition:

```
<script>
    var s_Stat = {
        Params: {
            Category: "TotalNumber",
            MainActionsMask: "CallEntered",
            Subject: "DNAction",
            Interval: "Growing"
        },
        Extensions: {
            DynamicFilter: "ANI=\"7181234567\""
        }
    };
    var s_Val = _genesys.statistic.sData('sip_a_vq1_Switch_sip1.Q', s_Stat);
</script>
```

With Extensions:

```
{
    Params: {
```

```
    MainActionsMask: "CallAnswered",
    Category: "TotalNumber",
    Interval: "Growing",
    Subject: "DNAction"
  },
  Extensions: {
    DynamicFilter: "DNIS=\"701\""
  }
}
```

Without Extensions:

```
{
  Params: {
    MainActionsMask: "CallAnswered",
    Category: "TotalNumberInTimeRange",
    Interval: "Growing",
    Subject: "DNAction",
    TimeRangeStart: 0,
    TimeRangeEnd: 20
  }
}
```

JavaStats:

```
{
  Params: {
    Category: "JavaCategory",
    Interval: "Growing"
  },
  Extensions: {
    JavaStats: {
      JavaExtension: "eServiceContactStat.jar",
      JavaSubCategory: "age of oldest email"
    }
  }
}
```