



Welcome to Data Analytics Composer

[New](#)[Open](#)

Documentation

Quick Start Guide
Key Concepts
Tutorials
Siddhi Grammar

Try out our samples

PublishingEvents
RecoveringEvents
ProcessingEvents

[More samples](#)

First time
user



Welcome to Data Analytics Composer

[New](#)[Open](#)

Recent Files

TrafficAnalyzer

SmartHomePlan


ProcessingEventsNew

Try out our samples

PublishingEvents

RecoveringEvents

ProcessingEvents

[More samples](#)

Returning
User



Open a Siddhi File



HomePlan
FraudDetection
TrafficAnalyzer1
TrafficAnalyzer2
TrafficAnalyzer3
TrafficAnalyzer4

Open

Cancel

Open siddhi files.

Files are listed from a
deployment folder

<http://www.das4.wso2.com>

WSO2 Data Analytics Server

File Edit Run Debug Simulate Help

Welcome Page



Open Sample Siddhi File



TrafficAnalyzer
PublishingEvents
RecoveringEvents
ProcessingEvents.
PublishingEvents.
PublishingEvents
PublishingEvents
RecoveringEvents.

Open

Cancel

Open sample
siddhi files

<http://www.das4.wso2.com>

WSO2 Data Analytics Server

File Edit Run Debug Simulate Help

Welcome Page



Save



HomePlan
FraudDetection
TrafficAnalyzer1
TrafficAnalyzer2
TrafficAnalyzer3
TrafficAnalyzer4

File Name

SmartHome

.siddhi

Save

Cancel

<http://www.das4.wso2.com>

WSO2 Data Analytics Server

File Edit Run Debug Simulate Help

Welcome Page



Import File



C:/Template

- ▼ Computer
 - ▼ Local Disk (C)
 - ▼ Template
 - ▼ New
 - TrafficAnalyzer.siddhi
 - ▶ Local Disk (D)

Import

Cancel



Export File



C:/Template

- ▼ Computer
 - ▼ Local Disk (C)
 - ▼ Template
 - ▼ New
 - TrafficAnalyzer.siddhi
 - ▶ Local Disk (D)

File Name

SmartHome

.siddhi

Export

Cancel

<http://www.das4.wso2.com>

WSO2 Data Analytics Server | File Edit Resources Help



Welcome Page



untitled



```
1 @Plan:name("SensorStatistics-ExecutionPlan")
2
3 -- Please refer to https://docs.wso2.com/display/DAS400/Quick+Start+Guide on getting started with DAS editor.
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
```

New file created through
welcome screen

Workspace

- SmartHomePlan.siddhi
- FraudDetection.siddhi
- TrafficAnalyzer1.siddhi
- TrafficAnalyzer2.siddhi
- TrafficAnalyzer3.siddhi

Samples

Welcome Page

SmartHomePlan

```
1 @Plan:name("SensorStatistics-SmartHomePlan")
2
3 -- Please refer to https://docs.wso2.com/display/DAS400/Quick+Start+Guide on getting started with DAS editor.
4
5
6 @Import('org.wso2.event.sensor.stream:1.0.0')
7 define stream sensorStream (meta_timestamp long, meta_isPowerSaverEnabled bool, meta_sensorId int, meta_sensorName string,
8 correlation_longitude double, correlation_latitude double, humidity float, sensorValue double);
9 @Export('org.wso2.event.sensor.filtered.stream:1.0.0')
10 define stream filteredStream (meta_timestamp long, meta_sensorName string, correlation_longitude double,
11 correlation_latitude double, sensorValue double);
12 from sensorStream sensorValue > 120
13 select meta_timestamp, meta_sensorName, correlation_longitude, correlation_latitude, sensorValue
14 insert into filteredStream
15
16
17
18
19
20
```



Run/Debug Application



SmartHomePlan



FraudDetection



TrafficAnalyzer1



TrafficAnalyzer2



TrafficAnalyzer3



Welcome Page

SmartHomePlan

```
1 @Plan:name("SensorStatistics-SmartHomePlan")
2
3 -- Please refer to https://docs.wso2.com/display/DAS400/Quick+Start+Guide on getting started with DAS editor.
4
5
6 @Import('org.wso2.event.sensor.stream:1.0.0')
7 define stream sensorStream (meta_timestamp long, meta_isPowerSaverEnabled bool, meta_sensorId int, meta_sensorName string,
8 correlation_longitude double, correlation_latitude double, humidity float, sensorValue double);
9 @Export('org.wso2.event.sensor.filtered.stream:1.0.0')
10 define stream filteredStream (meta_timestamp long, meta_sensorName string, correlation_longitude double,
11 correlation_latitude double, sensorValue double);
12 from sensorStream sensorValue > 120
13 select meta_timestamp, meta_sensorName, correlation_longitude, correlation_latitude, sensorValue
14 insert into filteredStream
15
```

Run or debug a execution
plan and stop



Run/Debug Application



SmartHomePlan



FraudDetection



TrafficAnalyzer1



TrafficAnalyzer2



TrafficAnalyzer3



Stop All

Welcome Page

SmartHomePlan

```
1 @Plan:name("SensorStatistics-SmartHomePlan")
2
3 -- Please refer to https://docs.wso2.com/display/DAS400/Quick+Start+Guide on getting started with DAS editor.
4
5
6 @Import('org.wso2.event.sensor.stream:1.0.0')
7 define stream sensorStream (meta_timestamp long, meta_isPowerSaverEnabled bool, meta_sensorId int, meta_sensorName string,
8 correlation_longitude double, correlation_latitude double, humidity float, sensorValue double);
9 @Export('org.wso2.event.sensor.filtered.stream:1.0.0')
10 define stream filteredStream (meta_timestamp long, meta_sensorName string, correlation_longitude double,
11 correlation_latitude double, sensorValue double);
12 from sensorStream sensorValue > 120
13 select meta_timestamp, meta_sensorName, correlation_longitude, correlation_latitude, sensorValue
14 insert into filteredStream
15
16
17
18
19
```

Console

Application started in run mode

Single Simulation

S1 x +

Execution Plan

Select

Stream Name

Select

Time Stamp - optional

UNIX or GMT



Simulate

Cancel

```
1 @Plan:name("SensorStatistics-SmartHomePlan")
2
3 -- Please refer to https://docs.wso2.com/display/DAS400/Quick+Start+Guide on getting started with DAS editor.
4
5
6 @Import('org.wso2.event.sensor.stream:1.0.0')
7 define stream sensorStream (meta_timestamp long, meta_isPowerSaverEnabled bool, meta_sensorId int, meta_sensorName
8 string,
9 correlation_longitude double, correlation_latitude double, humidity float, sensorValue double);
10 @Export('org.wso2.event.sensor.filtered.stream:1.0.0')
11 define stream filteredStream (meta_timestamp long, meta_sensorName string, correlation_longitude double,
12 correlation_latitude double, sensorValue double);
13 from sensorStream sensorValue > 120
14 select meta_timestamp, meta_sensorName, correlation_longitude, correlation_latitude, sensorValue
15 insert into filteredStream
16
17
18
19
20
```

Data Analytics Server

http://www.das4.wso2.com

WSO2 Data Analytics Server | File Edit Resources Help

Single | Feed | Welcome Page x | SmartHomePlan x

Single Simulation

S1 x +

Execution Plan
testExecutionPlan

Stream Name
sensorStream

Time Stamp - optional
UNIX or GMT

Attribute Values

Attribute1 (string)
WSO2

Attribute2 (Type)
45

Attribute3 (boolean)
☒ True ☐ False

Simulate Cancel

```

1  @Plan:name("SensorStatistics-SmartHomePlan")
2
3  -- Please refer to https://docs.wso2.com/display/DAS400/Quick+Start+Guide on getting started with DAS editor.
4
5
6  @Import('org.wso2.event.sensor.stream:1.0.0')
7  define stream sensorStream (meta_timestamp long, meta_isPowerSaverEnabled bool, meta_sensorId int, meta_sensorName
8  string,
9  correlation_longitude double, correlation_latitude double, humidity float, sensorValue double);
10 @Export('org.wso2.event.sensor.filtered.stream:1.0.0')
11 define stream filteredStream (meta_timestamp long, meta_sensorName string, correlation_longitude double,
12 correlation_latitude double, sensorValue double);
13 from sensorStream sensorValue > 120
14 select meta_timestamp, meta_sensorName, correlation_longitude, correlation_latitude, sensorValue
15 insert into filteredStream
16
17
18
19
20

```

WSO2 Data Analytics Server | © 2017 WSO2 Inc.

Last single event simulated
will be saved for the
session

Paste/type in unix/GMT
time or click icon to select
GMT time
On mouse hover
UNIX - 1488615136978
GMT - 05/05/2017
08:12:16.978

Single

Feed

Welcome Page

SmartHomePlan

Single Simulation

S1 x +

Execution Plan

testExecutionPlan

Stream Name

sensorStream

Time Stamp - optional

UNIX or GMT

Attribute Values

Attribute1 (string)

WSO2

Attribute2 (Type)

45

Attribute3 (boolean)

☒ True ☐ False

Simulate

Cancel

```
1 @Plan:name("SensorStatistics-SmartHomePlan")
2
3 -- Please refer to https://docs.wso2.com/display/DAS400/Quick+Start+Guide on getting started with DAS editor.
4
5
6 @Import('org.wso2.event.sensor.stream:1.0.0')
7 define stream sensorStream (meta_timestamp long, meta_isPowerSaverEnabled bool, meta_sensorId int, meta_sensorName
8 string,
9 correlation_longitude double, correlation_latitude double, humidity float, sensorValue double);
10 @Export('org.wso2.event.sensor.filtered.stream:1.0.0')
11 define stream filteredStream (meta_timestamp long, meta_sensorName string, correlation_longitude double,
12 correlation_latitude double, sensorValue double);
13 from sensorStream sensorValue > 120
14 select meta_timestamp, meta_sensorName, correlation_longitude, correlation_latitude, sensorValue
15 insert into filteredStream
16
17
18
19
```

Console

Stream Name : sensorStream,
Data : "WSO2, 45, True",
Event successfully simulated

Single Feed

Feed Simulation

+ Create Simulation

Welcome Page x SmartHomePlan x

Simulation Name

simulation1

Description - optional

Start Timestamp - optional

1488615136958

End Timestamp - optional

1488615136978

Time Interval - optional

1000

No Of Events - optional

5

Simulation Type

CSV File

[Add New](#)

started with DAS editor.

```
meta_sensorId int, meta_sensorName string,  
double);
```

```
on_longitude double,
```

```
sensorValue
```

WSO2 Data Analytics Server

WSO2 Data Analytics Server

File Edit Resources Help

Single

Feed

Feed Simulation

Create Simulation

Welcome Page

SmartHomePlan

Simulation Name

simulation1

Description - optional

Start Timestamp - optional

1488615136958

End Timestamp - optional

1488615136978

Time Interval - optional

1000

No Of Events - optional

5

Source1 - CSV File

Execution Plan

testExecutionPlan

Stream Name

testExecutionPlan

CSV File

foostream4.csv

Timestamp Attribute

0

Timestamp Interval

1000

CSV File Is Ordered by Timestamp

Yes

No

Delimiter

,

Simulation Type

Select

Add New

Save

Cancel

started with DAS editor.

meta_sensorId int, meta_sensorName string, double);

n_longitude double,

ensorValue

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http://www.das4.wso2.com

WSO2 Data Analytics Server

FileEditResourcesHelp

SingleFeed

Feed Simulation

+

Create Simulation

Welcome PageSmartHomePlan

Simulation Name

simulation1

Description - optional

Start Timestamp - optional

1488615136458

End Timestamp - optional

1488615136478

Time Interval - optional

1000

No Of Events - optional

5

Source1 - CSV File

Source2 - Database

Execution Plan

testExecutionPlan

Stream Name

testExecutionPlan

Data Source

jdbc:mysql://localhost:3306/DatabaseFeedSimulation

Driver

com.mysql.jdbc.Driver

Username

root

Password

Test Connection

Successfully Connected

Table Name

foostream3

☒Timestamp Attribute

timestamp

☐Timestamp Interval

1000

Coloum List

Attribute1 (string)

symbol

Attribute2 (Type)

price

Attribute3 (Type)

volume

Simulation Type

Database

Add New

Save

Cancel

started with DAS editor.

meta_sensorId int, meta_sensorName string, double);

m_longitude double,

ensorValue

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http://www.das4.wso2.com

WSO2 Data Analytics Server

FileEditResourcesHelp

SingleFeed

Feed Simulation

Create Simulation

Welcome PageSmartHomePlan

Simulation Name

simulation1

Description - optional

Start Timestamp - optional

1488615136958

End Timestamp - optional

1488615136978

Time Interval - optional

1000

Source1 - CSV File

Source2 - Database

Source3 - Random

Execution Plan

testExecutionPlan

Stream Name

testExecutionPlan

Timestamp Interval

5

Attribute1 (string)

Configuration Type

Regex Based

Pattern

a-zA-Z

Attribute2 (Type)

Configuration Type

Property Based

Property

altitude

Attribute3 (Type)

Configuration Type

Custom Data Based

Data

1,2,3

Simulation Type

Database

Add New

Save

Cancel

started with DAS editor.

meta_sensorId int, meta_sensorName string, double);

m_longitude double,

ensorValue

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Single

Feed



Feed Simulation



+ Create Simula

Select
Manage

Welcome Page

SmartHomePlan

1
2
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@Plan:name("SensorStatistics-SmartHomePlan")

-- Please refer to <https://docs.wso2.com/display/DAS400/Quick+Start+Guide> on getting started with DAS editor.

@Import('org.wso2.event.sensor.stream:1.0.0')

define stream sensorStream (meta_timestamp long, meta_isPowerSaverEnabled bool, meta_sensorId int, meta_sensorName string,
correlation_longitude double, correlation_latitude double, humidity float, sensorValue double);

@Export('org.wso2.event.sensor.filtered.stream:1.0.0')

define stream filteredStream (meta_timestamp long, meta_sensorName string, correlation_longitude double,
correlation_latitude double, sensorValue double);from sensorStream [sensorValue > 120](#)

select meta_timestamp, meta_sensorName, correlation_longitude, correlation_latitude, sensorValue

insert into filteredStream



Event Simulation

+ Create Simulation

1
2
3
4
5
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@Plan:name("SensorStatistics-SmartHomePlan")

-- Please

@Import

define s

col

@Export

define s

col

from se

select r

insert in

Select a Saved Simulation x

MultipleEvent01
MultipleEvent02
MultipleEvent03
MultipleEvent04
MultipleEvent05
MultipleEvent06

Open

Cancel

on getting started with DAS editor.

led bool, meta_sensorId int, meta_sensorName string,
nsorValue double);

q, correlation_longitude double,

latitude, sensorValue

1
2
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@Plan:name("SensorStatistics-SmartHomePlan")

-- Please refer to <https://docs.wso2.com/display/DAS400/Quick+Start+Guide> on getting started with DAS editor.@Import
define st
corr
@Export
define st
corr
from sen
select m
insert int

Mange Simulations x

SingleEvent01
SingleEvent02
SingleEvent03
SingleEvent04
SingleEvent05
SingleEvent06d bool, meta_sensorId int, meta_sensorName string,
sorValue double);

correlation_longitude double,

atitude, sensorValue

Edit

Delete

Cancel

<http://www.das4.wso2.com>

WSO2 Data Analytics Server | File Edit Simulate Help

DAS / Simulation

WelcomePage x Simulation x



Single Event

Multiple Event

I Create New

Simulation Name

simulation1

Start Timestamp - optional

1488615136958

Time Interval - optional

1000

End Timestamp - optional

1488615136958

No. Of Events - optional

Simulation Type

CSV File

Execution Plan

testExecution

Stream Name

testExecution

CSV File

Upload New

Upload CSV

C:\Template\New\foostream5.csv

▼ Computer

▼ Local Disk (C)

▼ Template

▼ New

foostream5.csv

► Local Disk (D)

Upload

Cancel

☒ Save This Simulation

Add

Cancel



Feed Simulation



+ Create Simulation

simulation1



simulation2



simulation3



Pause



Stop



Edit



Remove

```
1 @Plan:name("SensorStatistics-SmarthHomePlan")
```

```
2
```

```
3
```

```
4
```

```
5
```

```
6
```

```
7 @Import('org.wso2.event.sensor.stream:1.0.0')
```

```
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```

```
20
```

```
define stream sensorStream (meta_timestamp long, meta_isPowerSaverEnabled bool, meta_sensorId int, meta_sensorName string,  
    correlation_longitude double, correlation_latitude double, humidity float, sensorValue double);  
@Export('org.wso2.event.sensor.filtered.stream:1.0.0')  
define stream filteredStream (meta_timestamp long, meta_sensorName string, correlation_longitude double,  
    correlation_latitude double, sensorValue double);  
from sensorStream sensorValue > 120  
select meta_timestamp, meta_sensorName, correlation_longitude, correlation_latitude, sensorValue  
insert into filteredStream
```



Feed Simulation



+ Create Simulation

simulation1



⚠ Unable to start simulation,
execution plans are stopped.
Start execution plans in Run/
Debug mode

Run

Debug

simulation2



simulation3



```
1 @Plan:name("SensorStatistics-SmarthHomePlan")
2
3 -- Please refer to https://docs.wso2.com/display/DAS400/Quick+Start+Guide on getting started with DAS editor.
4
5
6 @Import('org.wso2.event.sensor.stream:1.0.0')
7 define stream sensorStream (meta_timestamp long, meta_isPowerSaverEnabled bool, meta_sensorId int, meta_sensorName string,
8 correlation_longitude double, correlation_latitude double, humidity float, sensorValue double);
9 @Export('org.wso2.event.sensor.filtered.stream:1.0.0')
10 define stream filteredStream (meta_timestamp long, meta_sensorName string, correlation_longitude double,
11 correlation_latitude double, sensorValue double);
12 from sensorStream sensorValue > 120
13 select meta_timestamp, meta_sensorName, correlation_longitude, correlation_latitude, sensorValue
14 insert into filteredStream
15
16
17
18
19
20
```


simulation2

simulation2

simulation3

```
1 @Plan:name("SensorStatistics-SmartHomePlan")
```

```
2
3 -- Please refer to https://docs.wso2.com/display/DAS400/Quick+Start+Guide on getting started with DAS editor.
```

```
4
5
6 @Import('org.wso2.event.sensor.stream:1.0.0')
```

```
7 define stream sensorStream (meta_timestamp long, meta_isPowerSaverEnabled bool, meta_sensorId int, meta_sensorName string,
8 correlation_longitude double, correlation_latitude double, humidity float, sensorValue double);
```

```
9 @Export('org.wso2.event.sensor.filtered.stream:1.0.0')
```

```
10 define stream filteredStream (meta_timestamp long, meta_sensorName string, correlation_longitude double,
11 correlation_latitude double, sensorValue double);
```

```
12 from sensorStream sensorValue > 120
```

```
13 select meta_timestamp, meta_sensorName, correlation_longitude, correlation_latitude, sensorValue
```

```
14 insert into filteredStream
15
16
17
18
19
```

Records to display 10

| Execution Plan | Stream | Timestamp | Data |
|--------------------|------------|--------------------------------|-----------------|
| | | | |
| TestExecutionPlan | FooStream | 1488685157848 (3/5/2017 9:09) | "CAR" "40" "45" |
| TestExecutionPlan2 | FooStream | 1488615136958 (3/4/2017 13:42) | "WSO2" "9" "45" |
| TestExecutionPlan | FooStream | 1488685157848 (3/5/2017 9:09) | "CAR" "40" "45" |
| TestExecutionPlan3 | FooStream2 | 1488615136958 (3/4/2017 13:42) | "WSO2" "9" "45" |

Feed Simulation

+ Create Simulation

simulation1

simulation2

simulation3

1 @Plan:name("SensorStatistics-SmarthomePlan")

2

3 -- Please refer to <https://docs.wso2.com/display/DAS400/Quick+Start+Guide> on getting started with DAS editor.

4

5

6 @Import('org.wso2.event.sensor.stream:1.0.0')

7 define stream sensorStream (meta_timestamp long, meta_isPowerSaverEnabled bool, meta_sensorId int, meta_sensorName string,
8 correlation_longitude double, correlation_latitude double, humidity float, sensorValue double);

9 @Export('org.wso2.event.sensor.filtered.stream:1.0.0')

10 define stream filteredStream (meta_timestamp long, meta_sensorName string, correlation_longitude double,
11 correlation_latitude double, sensorValue double);12 from sensorStream [sensorValue > 120](#)

13 select meta_timestamp, meta_sensorName, correlation_longitude, correlation_latitude, sensorValue

14 insert into filteredStream

15

16

17

18

19

Debug x Output x +

SmartHomePlan x

▶ Event State



timestamp : 1493968374072,



Data : "WSO2, 45, Sample Data",



Query State

query1 [-]

AbstractStreamProcessor-ExecutionPlan-1 [+]

AbstractAggregationAttributeExecutor-ExecutionPlan-3 [+]

Feed Simulation

+ Create Simulation

simulation2

simulation2

simulation3

1 @Plan:name("SensorStatistics-SmarthHomePlan")

2
3 -- Please refer to <https://docs.wso2.com/display/DAS400/Quick+Start+Guide> on getting started with DAS editor.4
5
6 @Import('org.wso2.event.sensor.stream:1.0.0')7 define stream sensorStream (meta_timestamp long, meta_isPowerSaverEnabled bool, meta_sensorId int, meta_sensorName string,
8 correlation_longitude double, correlation_latitude double, humidity float, sensorValue double);

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10 define stream filteredStream (meta_timestamp long, meta_sensorName string, correlation_longitude double,
11 correlation_latitude double, sensorValue double);12 from sensorStream [sensorValue > 120](#)

13 select meta_timestamp, meta_sensorName, correlation_longitude, correlation_latitude, sensorValue

14 insert into filteredStream
15
16
17
18
19

Debug x Output x +

▶ Event State

👁 timestamp : 1493968374072,
👁 Data : "WSO2, 45, Sample Data",
■

Query State

query1 ☐
AbstractStreamProcessor-ExecutionPlan-1 ☐
AbstractAggregationAttributeExecutor-ExecutionPlan-3 ☐