

# JSWMM - FlowRateDispatcher component

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## Abstract

This pages teaches JSWMM-FlowRateDispatcher component as OMS3 component. Some preliminary knowledge and installation of OMS is mandatory (see @Also useful). This component is a support to Routing NET3 node. The role of it is to sum all the flow rate contributions at the corresponding junction.

### @Version:

0.1

### @License:

GPL v.3

### @Inputs:

*HashMap<Integer, LinkedHashMap<Instant, Double>>* flowrate1;

*HashMap<Integer, LinkedHashMap<Instant, Double>>* flowrate2;

...

*HashMap<Integer, LinkedHashMap<Instant, Double>>* flowrate10;

*SWMMObject* dataStructure;

### @Outputs:

*SWMMObject* dataStructure;

**Keywords:** OMS; JSWMM; JGrass-NewAGE Component

## Code Information

### Code repository

This points to the source code <https://github.com/geoframecomponents/jswmm>

### Executables

This points to the jar file that, once downloaded can be used in the OMS console.

[../build/libs](#)

### Also useful

Dependency of the source code:

- inpparser-all.jar
- oms-all.jar

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Component Algorithms and internals

This component just sum the flow of each contributes of the upper network. Each contribute can have different time step, the component adapts all contributes at the routing time step. As output a LinkedHashMap<Instant, Double> for each rainfall period (3, 5 and 10 minutes) are collected in an HashMap<Integer, LHM<Instant, Double>. This describes the response of the upper part of the network to the rainfall inputs.

Software specifications

To evaluate sum of flow rate contributions at a junction node.

Class UML diagram

