# ZeroMQ transport handler

This transport handler allows to send and receive messages using the TCP sockets with the easily customizable ZeroMQ framework (see http://www.zeromq.com/). Information on how to use ZeroMQ and about parameter information can be found at http://zguide.zeromq.org/ . In this implementation the pure Java version of ZeroMQ is used: https://github.com/zeromq/jeromq .

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Options

- `host:` The IP of the server (own IP if publisher)
- `writeport`: The port on which data is send to clients
- `readport`: The port on which data sent by clients is received
- `delayofmsg`: The number of messages which are hold back until all delayed messages are sent in one stream element
- `threads`: The number of threads used by ZeroMQ to send/receive data
- `params`: parameters that can be set using pull publishing
- `timeout`: The number of unsuccessfully received/sent messages before connection is timed out

## Example

```
/// Send/Receive via publish/subscribe
sender = SENDER({
              id='sender',
              transport='ZeroMQ',
              wrapper='GenericPush',
              protocol='SVM',
              datahandler='Tuple',
              SINK="SENDER",
              options=[
                  ['HOST','192.168.1.101'],
                  ['READPORT','5554'],
                  ['WRITEPORT','5555'],
                  ['DELAYOFMSG','1'],
                  ['THREADS','1'],
                  ['ByteOrder', 'LittleEndian']
                ]
            },nexmark:Person
        )

/// Send/Receive via pull
sender = SENDER({
              id='sender',
              transport='ZeroMQ',
              wrapper='GenericPull',
              protocol='SVM',
              datahandler='Tuple',
              SINK="SENDER",
              options=[
                  ['HOST','192.168.1.101'],
                  ['READPORT','5554'],
                  ['WRITEPORT','5555'],
                  ['DELAYOFMSG','1'],
                  ['THREADS','1'],
                  ['ByteOrder', 'LittleEndian']
                ]
            },nexmark:Person
        )
```