

Advanced Adapter Framework

MTConnect and more... Moving data between industrial and enterprise sources and sinks.

WHAT IS DIME



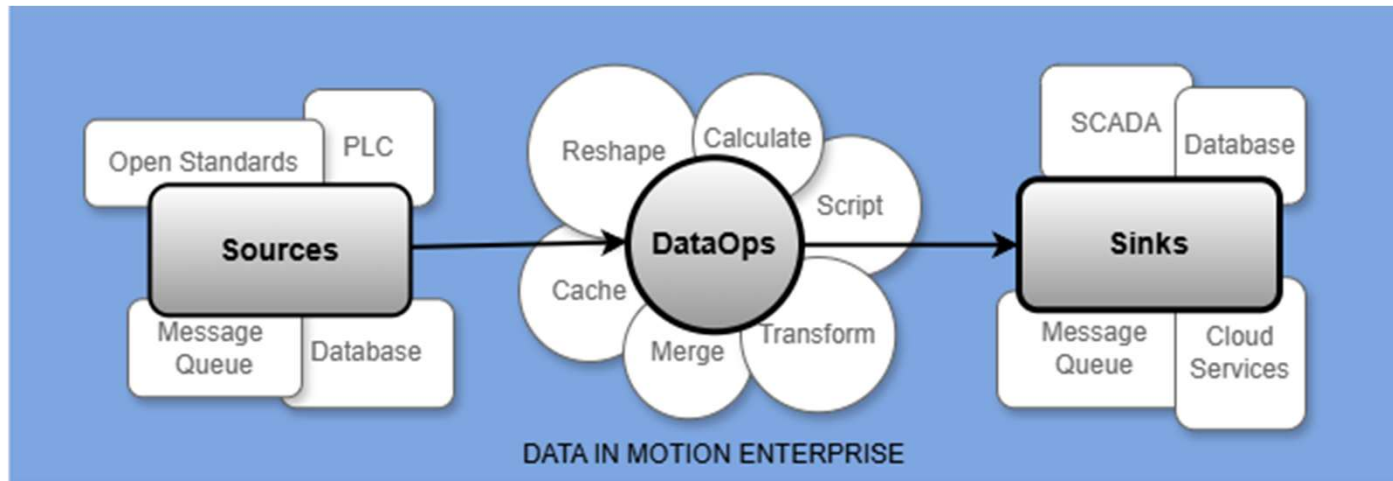
Data In Motion Enterprise (DIME) is an extensible software framework to move and reshape data from enterprise and industrial sources to message queues, databases, and other sinks.

Features:

- 40+ enterprise and industrial sources and sinks in a single platform.
- Lua, Scriban and Liquid scripting.
- Deployable as a console application, Windows Service or Docker container.
- Embeddable into other applications.
- Extensible framework allows quick addition of new source and sink connectors.
- User interface for modeling and testing configurations.

HOW DIME WORKS

There are data source and data sink connectors. Data moves from a source to a sink, while typically being transformed in the process. Both sources and sinks speak their own languages and protocols. DIME's connectors adapt each unique source and sink to a common format where calculation, data shaping, and transformation can take place.



WHAT IS SUPPORTED

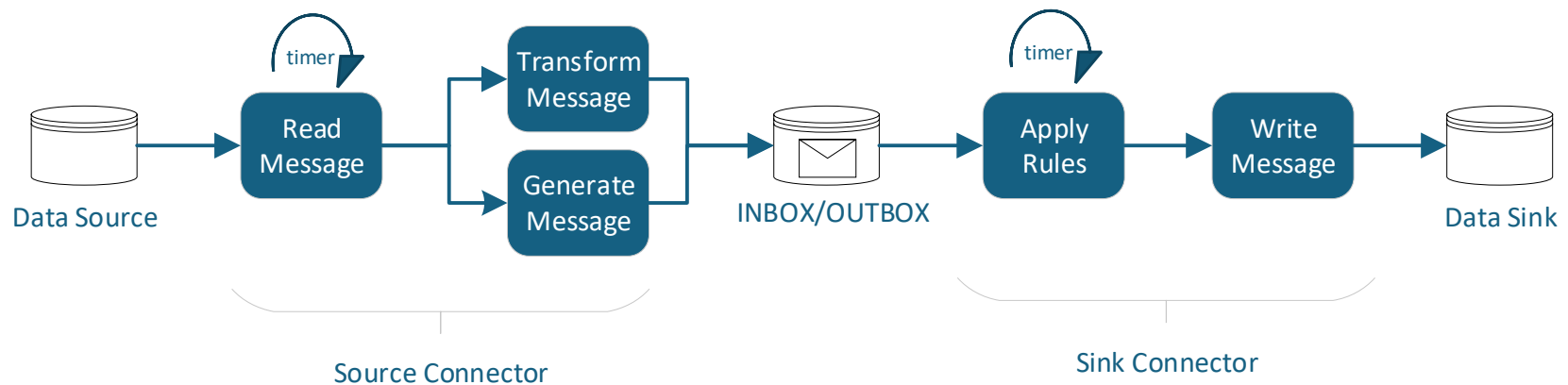
SOURCES

- ActiveMQ
- Beckhoff ADS
- Brother CNC
- Ethernet/IP
- Fanuc CNC
- Fanuc Robot
- Haas SHDR
- HTTP Server
- NLog
- Modbus/TCP
- MQTT
- MSSQL
- MTConnect Agent
- OPC-DA
- OPC-UA
- Postgres
- Redis
- Script
- Siemens S7
- SNMP
- SparkplugB
- TCP Ascii
- Timescale
- Wintriss
- XML Web Scraper
- Yaskawa Robot

SINKS

- Console
- CSV Writer
- HTTP Client
- HTTP Server
- MongoDB
- MQTT
- MTConnect Agent
- MTConnect SHDR
- OPC-UA
- Redis
- SparkplugB
- Splunk EdgeHub SDK
- Splunk HEC
- Trakhound
- Websocket Server

HOW DATA FLOWS THROUGH DIME



HOW DIME IS CONFIGURED

```
○○○
app:
  license: 572E-74CD-F761-D0E4-0385-0991-9CD8-AF1A
  ring_buffer: !!int 4096
  http_server_uri: http://127.0.0.1:9999/
  ws_server_uri: ws://127.0.0.1:9998/
sinks:
  - *shdrSink1
  - *console
sources:
  - *s7Source1
```

main.yaml

```
○○○
s7Source1: s7Source1
  name: s7Source1
  enabled: !!bool true
  scan_interval: !!int 10000
  connector: SiemensS7
  type: S71200
  address: 172.19.1.1
  port: !!int 102
  rack: !!int 0
  slot: !!int 1
  sink:
    transform:
      type: script
      template: >-
        Message.Data
    items:
      - name: estop
        type: bool
        address: Q200.0
        script: |
          if result then
            return 'TRIGGERED'
          else
            return 'ARMED'
          end
    sink:
      mtconnect: Device[name=S7_DEVICE]/Controller/EmergencyStop[category=Event]
```

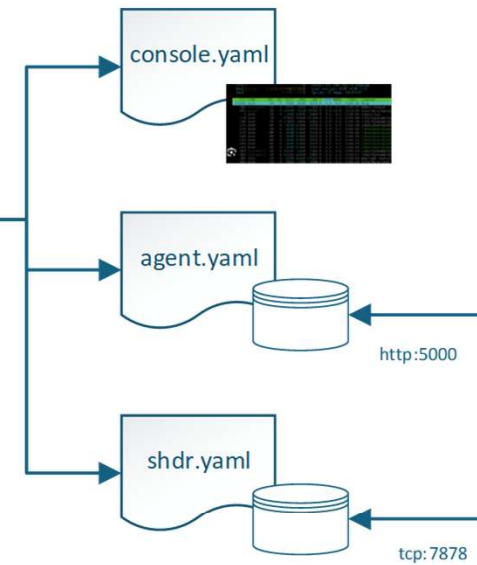
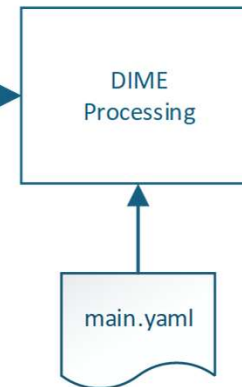
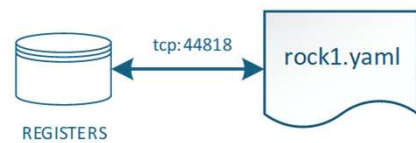
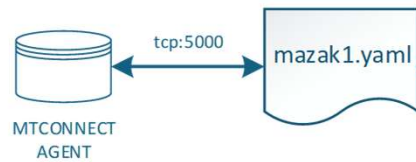
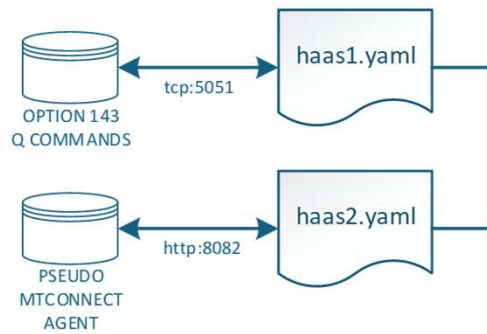
s7.yaml

```
○○○
shdrSink1: shdrSink1
  name: shdrSink1
  enabled: !!bool true
  scan_interval: !!int 1000
  connector: MTConnectSHDR
  port: !!int 7900
  device_key: ~
  heartbeat_interval: !!int 10000
  filter_duplicates: !!bool true
  use_sink_transform: !!bool true
  exclude_filter:
    - s7Source1/$SYSTEM
```

shdr.yaml

```
○○○
console: &console
  name: console
  enabled: !!bool true
  scan_interval: !!int 1000
  connector: Console
  use_sink_transform: !!bool false
  exclude_filter:
    - s7Source1/$SYSTEM
```

console.yaml



DEMO

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