client-side

server-side

Pre-aggregates and sends to client-side Aggregator

Collector
(allmon-client)

Time synchronization

Loader
(allmon-server)

Agent

Aggregator

Network

Receiver

Loader

Raw Metrics

Client JMS Broker

Server JMS Broker

Receives metric messages and load them to DB

Decodes raw metrics and load them to allmetric storage

Aggregates compress and add CRC

Monitored System Objects

Viewer

Jpivot

Mondrian allmetric views schema

Miner

Statistics

Correlation

Views/Agg Generator

Querying Storing

DB

Allmetric

Views

Aggregate

**Allmon Components
Logical overview – v.1.03a**
London 2009.10.06

client-side

server-side

Monitored System 1
- Active Agent
- Active Agent
- Passive Agent
- Passive Agent
- Active Agent

Monitored System 2
- Active Agent
- Passive Agent
- Passive Agent
- Active Agent

Monitored System N
- Active Agent
- Passive Agent
- Passive Agent
- Active Agent
- Passive Agent

Collector 1
Client JMS Broker

Collector 2
Client JMS Broker

Collector N
Client JMS Broker

Many distributed allmon clients continuously collecting metrics

Collected metrics are aggregated and sent asynchronously to allmon server

Allmon server-side components
- Loader
- Server JMS Broker
- DB
- Miner
- Viewer

Allmon Deployment Diagram
Logical overview – v.1.03b
London 2009.10.06

Miner

Statistics

Views/Agg Generator

Correlation

Querying Storing

Aggregates generator

Allmetric

Artifact

Instance

Metric Type

Host

Metric Value

Resource

Time

Calendar

Source

Data in 3NF Generic structure

Viewer

Jpivot

Mondrian allmetric views schema
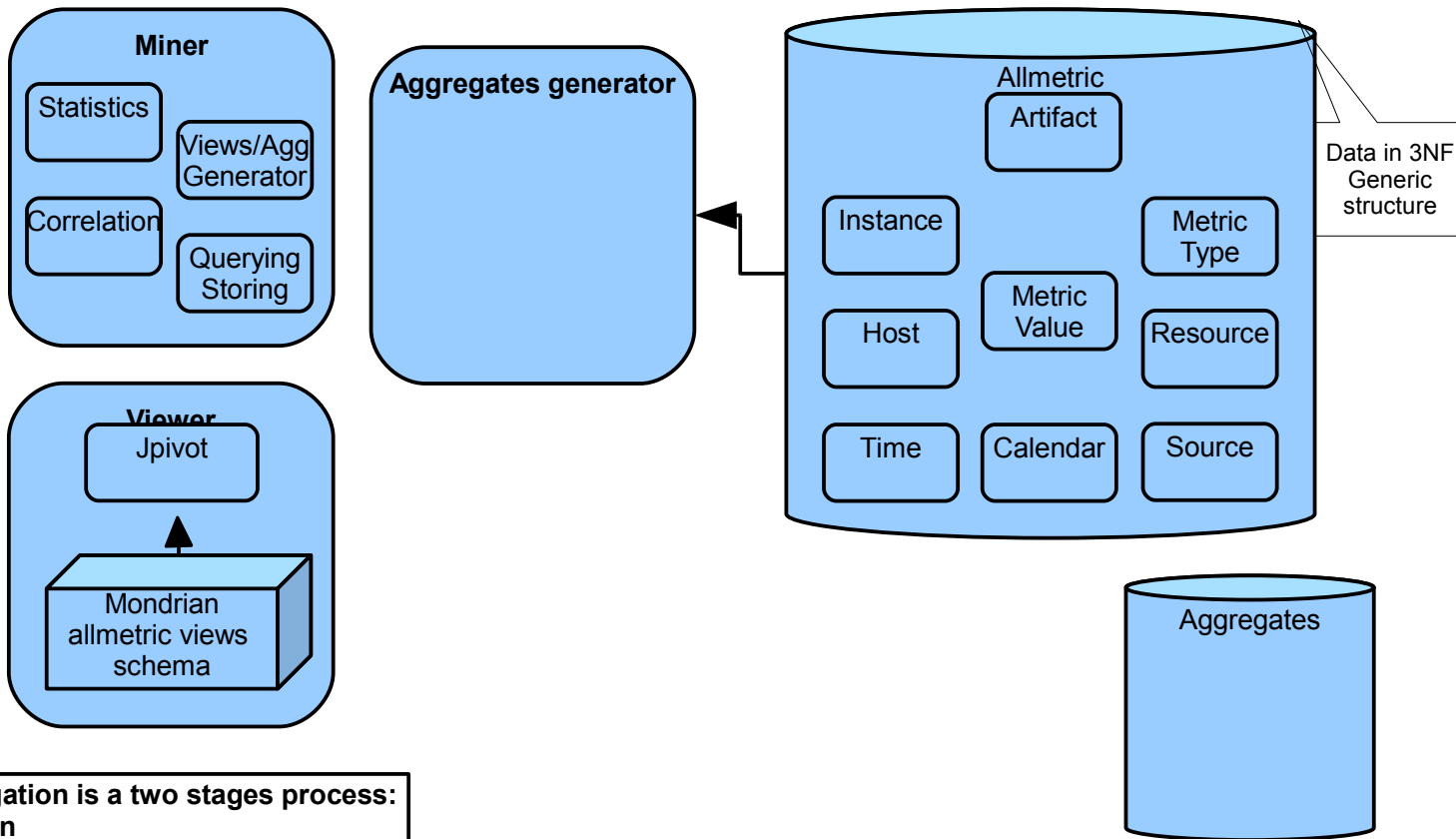
Aggregates

Aggreagation is a two stages process:
- creation
- loading

s:
e, source hierarchies
es and sources for the same metrictype instance

Allmon ??? Diagram
Aggregation – v.1.03b
London 2009.11.15

Monitored system

Application

| Health Checks | Interfaces | Presen- tation tier |

Services

| JVM | Application Server | JMS Broker |
| DB | Web Container | |

Physical

| OS CPU/Mem/IO | Net |

Allmon – Layers of Monitoring
Logical overview – v.1.03c
London 2009.10.06

Agent

Active Agent

Passive Agent

JmxServer Agent

Snmp Agent

UrlCall Agent

DBCall Agent

Ping Agent

ShellCall Agent

LogParser Agent

HttpClient Agent

JavaCall Agent

JmsCall Agent

JmxNfServer Agent

Allmon Agents Classes Diagram
Logical overview – v.1.03d
London 2009.10.06