Odysseus Home

Odysseus Documentation

On this pages we present the Odysseus project. Odysseus is a data stream management framework that can be used to create efficient applications that require data stream or event based processing.

Some more information can be found at http://odysseus.informatik.uni-oldenburg.de

Look here for detailed documentation:

Getting Started and Installation

- How to install Odysseus
- How to install new features
- How to update Odysseus
- Enable extended logging
- How to report a bug
- ODYSSEUS_HOME
- Odysseus.conf
- Run with Docker
- Use odysseus console

Tutorials

- Odysseus Studio
- Getting Started with Nexmark
- Simple Query Processing
- Selection, Projection and Map
- Aggregation and Window
- Join
- Run Nexmark Example
- Working with Charts
- How to access sources with different input in a single stream
- DDS Example with OpenICE
- Connecting Odysseus and Telegram
- Reading RSS Feed with Odysseus
- Arduino and Odysseus
- Arduino and Odysseus (2)
- Odysseus and Kinect
- How-to articles

Accessing Odysseus Server

- Webservice Interface
- REST interface
- Odysseus Client
- REST interface V2

Use Cases

- Patterns for Realtime Streaming Analytics
- ACM DEBS Grand Challenge
- Odysseus for Moving Object Processing

Query Languages

- Odysseus Script
- Procedural Query Language (PQL)
- Continuous Query Language (CQL)
- SASE
- Imperative Query Language (IQL)

Operators

- Base operators
- Advanced operators
- Source operators
- Sink operators
- Database operators
- Enrich operators
- Pattern operators
- Mining operators
- Anomaly Detection Operators
- Recommender System operators
- Probabilistic operators
- Order operators
- Plan operators
- Processing operators
- Transform operators
- Benchmark operators

Data Types

Meta data

- Data rate
- Latency
- Priority
- Probabilistic
- Systemload
- TimeInterval

MEP: Functions and Operators

- Bit Functions
- Command
- Datatype Functions
- Date Functions
- Encryption Functions
- Graph (Graph Server Feature)
- Image Functions
- ImageJCV Functions
- Interval Functions
- KV Store Function
- List Functions
- Mathematical Functions
- Matrix Functions
- MDA store functions
- Miscellaneous Functions
- Probabilistic Functions
- Spatial Functions
- String Functions
- System Load Function
- Text Functions

Access framework

- Protocol handler
- Transport handler
- Data handler

Odysseus User Management

Features

- Anomaly Detection
- Autostart
- Context Store Feature
- Dashboard Feature
- Database Feature
- Developer Feature
- Evaluation Feature
- Image Feature
- ImageJCV feature
- Interval Feature
- KeyValue Feature
- Key Value Store Feature
- Machine Learning
- MongoDB Feature
- Non-distributed Recovery Feature
- OdysseusNet
- Ontology Feature
- Peer Feature
- PMML Feature
- Probabilistic Feature
- Rapid Prototyping Feature
- Sensor Management Feature
- Spatial Feature
- Temporal Feature
- Video Feature
- XML Feature (IN PROGRESS)

Scheduling

Data-Generators

- Generic Generator
- Valuegenerator
- Concept Drift Generator
- Build your own generator

Development with Odysseus

- Tycho builds for Odysseus
- The Odysseus Operator Framework
- Adding features to products
- Creating new Operators
- Add a new Bundle
- Creating a new Wrapper for Odysseus
- Access Operators
- Integration Tests
- The Odysseus Operator Test Framework
- The Odysseus Procedural Query Language (PQL) Framework
- Developing DashboardParts
- MEP Functions
- The Odysseus Rule Engine
- Programmer's FAQ
- Extending OdysseusScript
- Jenkins
- The Command Architecture
- Create an Odysseus Docker Container
- Create New Aggregation Function
- Creating Metadata types
- Customizing Operator Graph Visualization (Odysseus Studio)
- Image Manager and Image Sets

Odysseus FAQ

Changelog

Odysseus Cheat Sheet

A generated cheat sheet with all operators, functions and data types can be found here.