

IoT Learning Agent Home

Description

The IoT Learning Agent (LA) is being developed for all kind of store-less data processing, from simple data annotation or aggregation to complex data machine learning techniques. The LA fulfill the task of a LinkSmart® Processor and a bit of a Message Handler (see [LinkSmart® Specification](#)), and they are ideal for intelligent on-demand data management or analysis in IoT environments, from edge computing to cloud computing. The LA can be used as edge standalone service or as a computational node in the cloud.

The LA are services that offer Complex-Event Processing as service and Real-time Machine Learning as a service. The agent provides three APIs, the Stream Mining API (**Statement API**), the Learning API (**CEML API**) and the **IO API**. The Statement and CEML APIs are CRUD (*Create, Read, Update, Delete*) and JSON based, while the IO are write-only (for Input) or read-only (for Output). The APIs are implemented as HTTPs RESTful and MQTT. There is a lightweight version of the LA without the learning API, named **Data-Processing Agent (DPA)**

Tutorials

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- [Getting Started Pure Java](#)
- [Deployment](#)
- [Case Study - Smart City Application](#)

APIs

- [Configuration](#)
- [RESTful API Documentation](#)
- [MQTT API \(to come\)](#)
- [Java native API](#)

Performance

- [IoT Data-Processing Agent Results \(under revision\)](#)

Advanced

- [IoT Learning Agent](#)
- [Advanced APIs](#)

Release Status	
Build Status	
Master	
Dev	
Source code	https://github.com/linksmart/data-processing-agent
Programming Language(s)	Java, Python
License	Apache v2.0, LGPLv3