

Industry 4.0 and Open Source Projects

use of these frameworks
can build complete IIoT
ecosystem

Eclipse Kapua



Modular IoT cloud platform to manage and integrate devices and their data. A solid integrated foundation of IoT services for any IoT application.

- 1 platform for IoT devices and smart sensors.
- 2 Management of edge IoT nodes .
- 3 Data Aggregation for analysis purpose
- 4 Web Console for management
- 5 REST Api are available

- 1 I/O Services
- 2 Data Services
- 3 Cloud Services
- 4 Configuration & Remote Management
- 5 Networking and Watchdog
- 6 Web administration interface

Eclipse Kura



IOT Gateway provides or, when available, aggregates open source implementations for the most common services needed by M2M applications.

Eclipse Millo



OPC Unified Architecture is an interoperability standard that enables the secure and reliable exchange of industrial automation data while remaining cross-platform and vendor neutral.

- 1 Supports (1.03) of the UA specifications.
- 2 compliant UA client and server applications.
- 3 interface between Clients and Servers
- 4 access to real-time data
- 5 monitoring of alarms and events
- 6 historical data access
- 7 data modelling

- 1 Low-Code Engine
- 2 Browser-based flow editing
- 3 Built on Node.js
- 4 Social Development
- 5 Run Locally, On SBCs and Cloud

Node-RED



Node-RED is a programming tool for wiring together hardware devices, APIs and online services in new and interesting ways.

it covers IIoT Platform, IoT Gateway, OPC-UA Implementation and Connector

Thank you !

**contact me for your
questions and queries**



Have a great
day ahead.

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