

Graphical modeling

THE SIRIUS FRAMEWORK

A MODELING LANGUAGE FOR HOME AUTOMATION SYSTEMS

0. Overview

1. Introduction
2. Architecture
3. Features and capabilities
4. Case study
5. Summary

1. Introduction Big picture

IoT

Home automation

Analysing

Generating

1. Introduction Technologies

Sirius¹

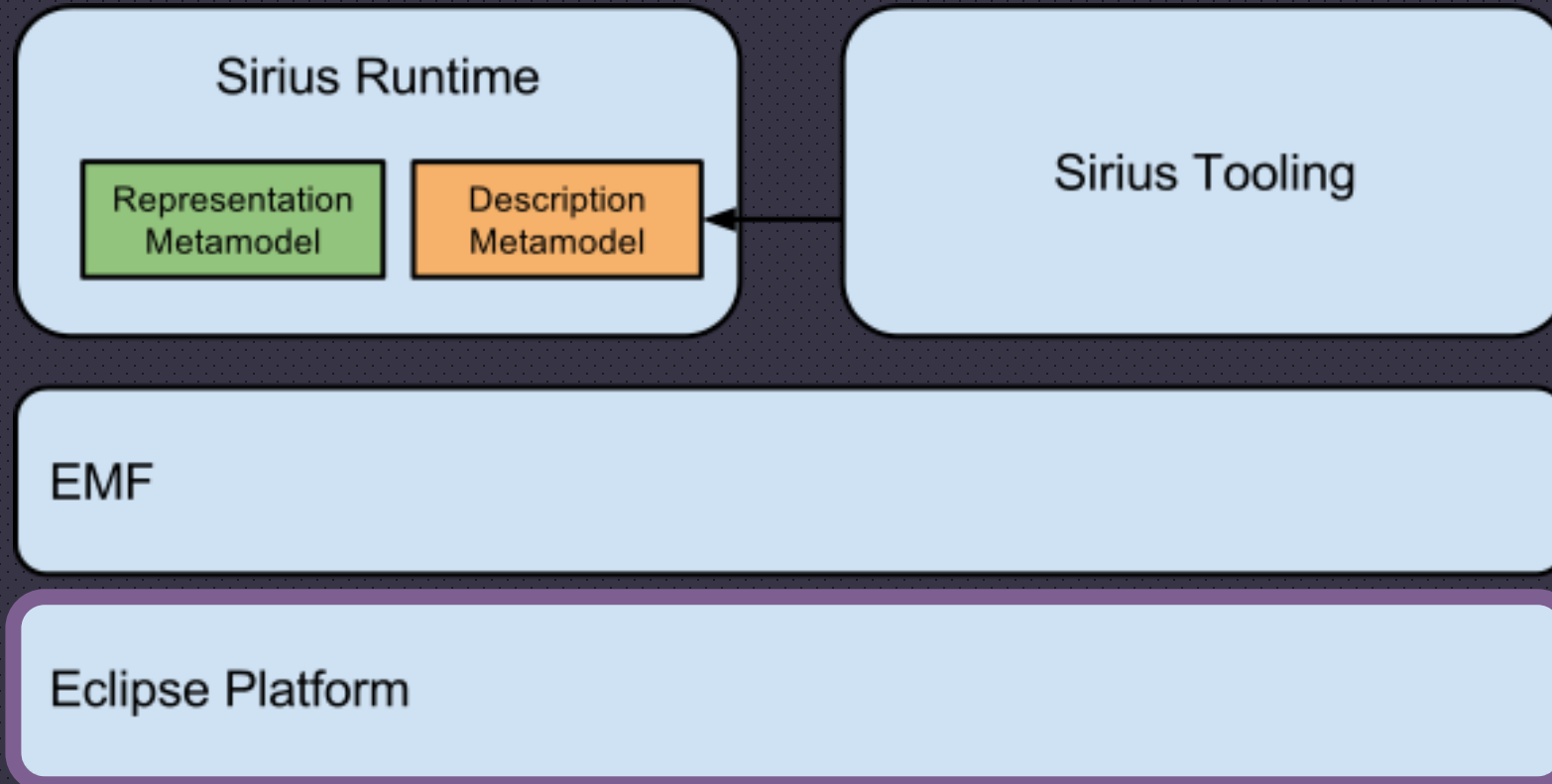


OpenHAB²



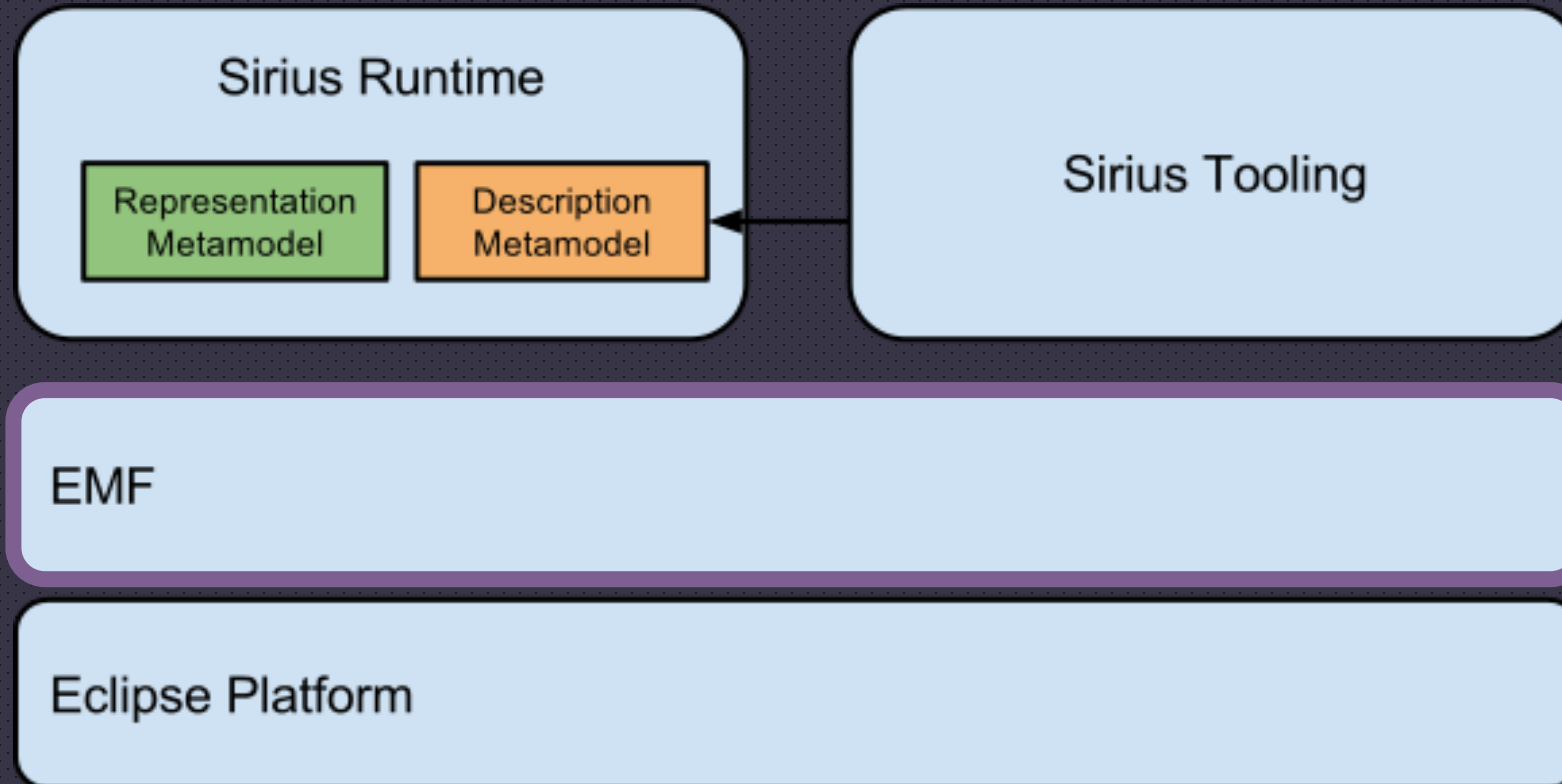
1. <http://www.eclipse.org/sirius/>
2. <https://www.openhab.org/>

2. Architecture Sirius



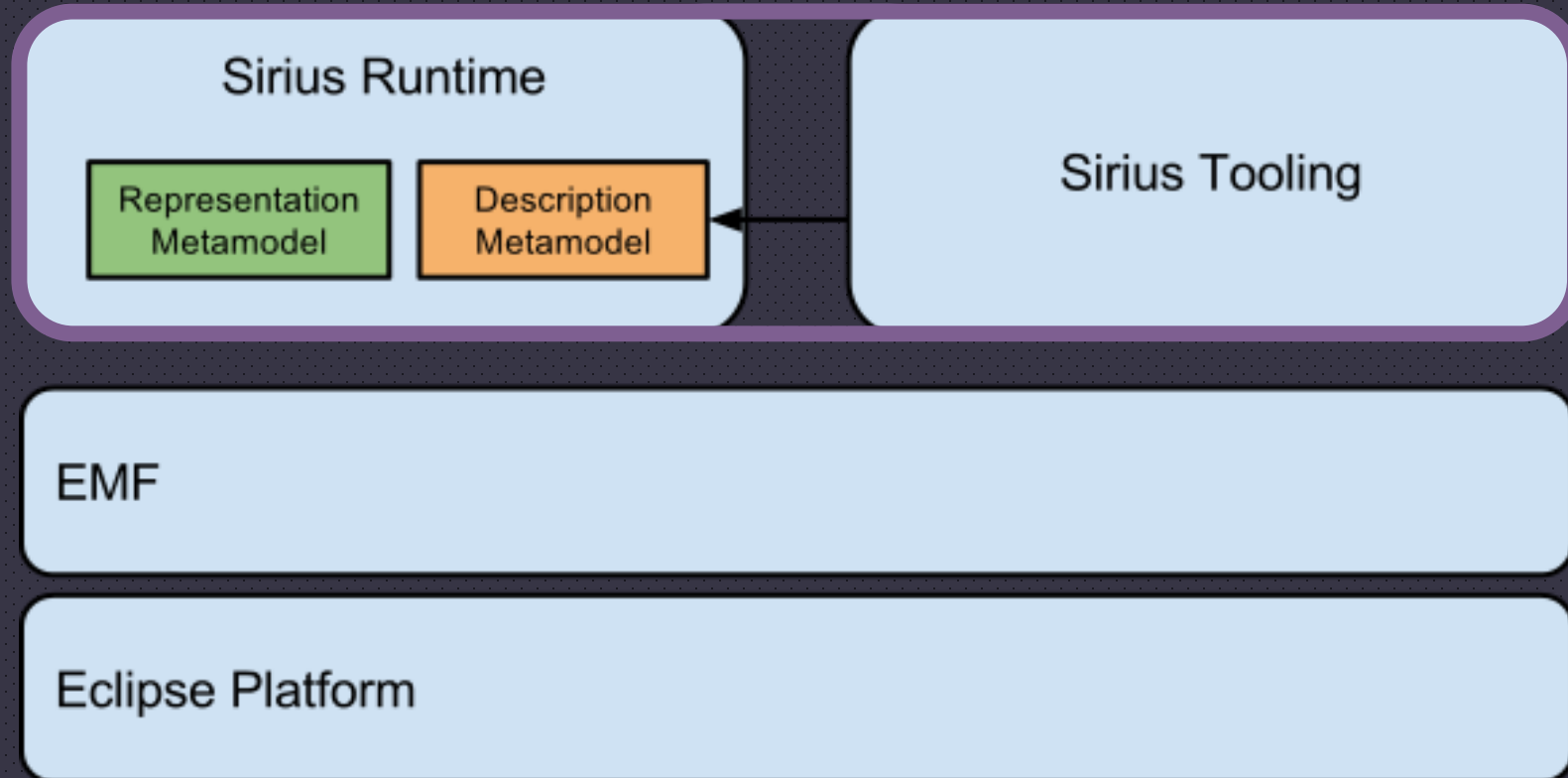
3. https://www.eclipse.org/sirius/doc/developer/Architecture_Overview.html
4. <https://www.eclipse.org/forums/index.php/t/1070145/>

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4. <https://www.eclipse.org/forums/index.php/t/1070145/>

2. Architecture OpenHAB

Rules

Actions

3. Features and capabilities Sirius

Built in representations⁵:

Diagrams

Sequence diagrams

Tables

Trees

Properties view

5. <https://www.eclipse.org/sirius/doc/specifier/Sirius%20Specifier%20Manual.html>

4. Case study Platforms

OpenHab

IFTTT

Home Control Assistant

4. Case study What?

OpenHAB

Conditions

- Parse
- Visualize
- Generate

Actions

- Visualize
- Generate

4. Case study Next?

Model language

- Conditions
- Actions
- Relations

Parse

Transform

5. Summary

How?

Sirius

What?

Home automation

- OpenHAB
 - Generate
 - Parse
 - Visualize
 - Analyze

Why?

Complexity