

# MD-SAL

## Welcome to MD-SAL

- [Welcome to MD-SAL](#)
- [Introduction](#)
- [Documentation](#)
- [Release Plans](#)
- [Release Notes](#)

## Introduction

The Model-Driven Service Adaptation Layer (MD-SAL) is message-bus inspired extensible middleware component that provides messaging and data storage functionality based on data and interface models defined by application developers (i.e. user-defined models).

The MD-SAL:

- Defines a **common-layer, concepts, data model building blocks and messaging patterns** and provides infrastructure / framework for applications and inter-application communication.
- Provide common support for user-defined transport and payload formats, including payload serialization and adaptation (e.g. binary, XML or JSON).

The MD-SAL uses **YANG** as the modeling language for both interface and data definitions, and provides a messaging and data-centric runtime for such services based on YANG modeling.

The MD-SAL provides two different API types (flavours):

- **MD-SAL Binding:** MD-SAL APIs which extensively uses APIs and classes generated from YANG models, which provides compile-time safety.
- **MD-SAL DOM:** (Document Object Model) APIs which uses DOM-like representation of data, which makes them more powerful, but provides less compile-time safety.

## Documentation

- Please head over to our official documentation of [MD-SAL](#) .

## Release Plans

- [Oxygen Release Plan](#)
- [Carbon Release Plan](#)
- [Boron Release Plan](#)

## Release Notes

- [Boron Release Notes](#)
- [Beryllium Release Notes](#)

## Project Facts

**Project Creation Date:** [April 17, 2014](#)

**Lifecycle State:** Incubation

**Type:** Kernel

**Primary Contact:** Robert Varga <[robert.varga@pantheon.tech](mailto:robert.varga@pantheon.tech)>

**Project Lead:** Robert Varga <[robert.varga@pantheon.tech](mailto:robert.varga@pantheon.tech)>

**Committers:**

*Active:*

- Tom Pantelis <[tompantelis@gmail.com](mailto:tompantelis@gmail.com)>
- Robert Varga <[rovarga@cisco.com](mailto:rovarga@cisco.com)>

*Inactive:*

- Tony Tkacik <[tony.tkacik@gmail.com](mailto:tony.tkacik@gmail.com)>
- Martin Ciglan <[mciglan@cisco.com](mailto:mciglan@cisco.com)>

**IRC:** [freenode.net](#) #opendaylight

**Mailing List:** [mdsal-dev@lists.opendaylight.org](mailto:mdsal-dev@lists.opendaylight.org)  
*Archives:* [mailing list archives](#)

**Meetings:** (pending)

**Repository:** git clone <https://git.opendaylight.org/gerrit/mdsal>

**Jenkins:** [jenkins silo](#)

**Gerrit Patches:** [code patches/reviews](#)

**Bugs:**

- [open bugs](#)