

Reference Designs

Reference Designs (RDs) represent a particular assembly of components that are required to build a deployable platform. They are “blueprints” developed by ONF’s operator members to address specific use cases for the emerging edge cloud.

In March 2018 ONF’s operator leadership expanded ONF’s mission to create a new [strategic plan](#) to deploy open source solutions into their production networks. By [committing to take open source solutions into production](#), ONF’s operator members are enabling a new supply chain ecosystem to help realize the full potential of SDN, disaggregation, and open source.

RDs are the vehicles to describe how a collection of projects can be assembled into a platform to address specific needs of operators. By defining RDs, ONF’s operator members are showing the industry the path forward to solutions they plan to procure and deploy. Each RD is backed by specific operator partner(s) who plan to deploy these designs into their production networks and will include participation from invited supply chain partners sharing the vision and demonstrating active investment in building open source solutions. The RD thus enables a set of committed partners to work on the specification and a related open source platform.

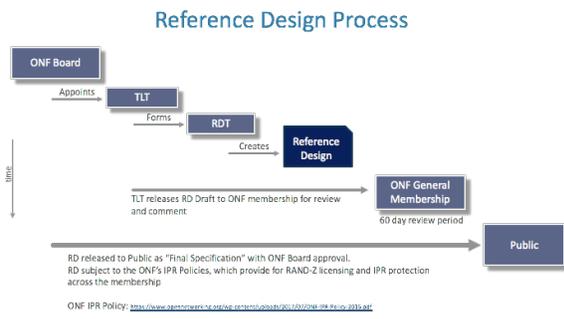
Assembling a set of selected components defined by the RDs into a platform enables a proof-of-concept to allow the test and trial of the design. These platforms are called Exemplar Platforms and each of them will be based on a Reference Design and will serve as reference implementation. These platforms are designed to make it easy to download, modify, trial, and deploy an operational instantiation and thereby speed up adoption and deployment.

Board Approved Process for Reference Designs

In July 2018 the ONF Board approved the following official processes for reviewing, approving, licensing, and releasing Reference Designs:

[ONF Reference Design Process and Procedure Overview FINAL.pdf](#)

This process is driven by the Technical Leadership Team (TLT) and the ONF partners on the Reference Design Teams (RDTs). Once a Draft version is approved, it is released to ONF members for review. This process is outlined visually here:



Please refer back to the [RD process document](#) for additional details.

In 2019, ONF operator partners started work on [multiple reference designs](#) (RDs) as part of the new [ONF strategic plan](#), with a goal to drive ONF open source solutions into production. Five of these RDs are now available as final [Reference Designs](#), thanks to the work done by the respective reference design teams comprised of the Operator Group and aligned ONF Supply-chain Partners along with constructive community feedback during the member-only review periods:

Virtualized Broadband: [SDN-Enabled Broadband Access \(SEBA\) Reference Design v1.0](#), [SD N-Enabled Broadband Access \(SEBA\) Reference Design v2.0](#)

NFV Fabric: [ONOS/Trellis NFV Fabric Reference Design v1.0](#)

Disaggregated Optical Networking: [Open Disaggregated Transport Network \(ODTN\) Informational Reference Design v0.4](#)

Mobile: [Converged Multi-Access and Core \(COMAC\) Reference Design v1.0](#)

Draft Reference Designs for ONF Member Review

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Community Contributions

Getting Started (member-only)

ONF Account Registration

Currently, there are no draft reference designs available for ONF member review.

How to Gain **Member-Only Access to Reference Designs**

To access RDs during the member-only review period, you will need to [register](#) with a valid member company email address. This process may take up to 24 hours to complete.

Stay In-The-Know

To be notified when a new Reference Design becomes publicly available, you can [sign up for our newsletter](#). Along with new reference design announcements, we send out regular updates on various ONF projects and community progress.