

# SEBA Reference Design v2.0

The draft SEBA Reference Design v2.0 specification [was released on December 17th, 2020](#) exclusively to ONF Members. This Reference Design (RD) was authored and is backed by multiple tier 1 operators, including AT&T, Deutsche Telekom, NTT and Türk Telekom, with contributions from ONF supply chain partner members Ciena, Netsia and Radisys. As a draft release, ONF members have 60 days to review the specification and send feedback to the SEBA Reference Design Team (RDT). [The ONF Board approved the final SEBA RD v2.0 for public release in March 2021](#). You can view the final specification [here](#).

SEBA (SDN-Enabled Broadband Access) is a lightweight platform for development of solutions for carrier broadband access. The purpose is to define a common infrastructure that supports a multitude of virtualized access technologies at the edge of the network. SEBA is optimized such that traffic can run 'fastpath' straight through to the backbone without requiring VNF processing on a server. The scope covers both wireline and fixed wireless access technologies and related Service Edge capabilities including, but not limited to, PON, XGS-PON, NG-PON2, EPON, future PON technologies, GFast, Ethernet, fixed wireless, DOCSIS and xDSL. The scope is intended to simplify the adaptation of new technologies, new silicon supporting these technologies and new devices that incorporate these technologies and silicon into deployable elements.

The SEBA RD v2.0 describes the SEBA exemplar platform, specifying a common architecture to meet the network and feature needs of multiple operators. It provides a high-level architecture with well-defined APIs, giving guidance on technology choices to implement software-defined, disaggregated broadband access solutions leveraging open hardware and modular software (preferably open source) components. The SEBA RD v2.0 builds on the [SEBA RD v1.0](#) (released to the public in March 2019), adding new features and functional enhancements.