Programmable FTTx
Network service providers – big or small – see the benefits of Programmable (P), Open (O), and Disaggregated (D) Solution (S) of access and aggregation networks. And such PODS of access and aggregation network paves the way for the following technology implementation:

01. Rolling out 5G Front-haul networks for CU & DU disaggregation

02. Scaling up last mile network for dense deployment of IoT/ng-IoT sensory networks

03. Converging the heterogeneous access technologies – PON, ethernet, radio, cable and others

04. Flexibility to develop the smart city, smart village, and smart defense networks and accommodate their varying demand

05. Setting up the ground for edge computing by disaggregating broadband networks and by re-architecting central offices

Product Architecture and Current Focus

Realizing the disruption potential of such PODS solution for access and aggregation network and establishing the suitable architecture were of significant importance for Sterlite Tech. Thus, involvement with ONF community and contribution to SDN Enabled Broadband Access (SEBA) reference design were the necessary steps towards setting up the building blocks. Further, Sterlite Tech’s own FTTH Network and decades’ long experience of setting up access and aggregation network grounds-up for customers – were few of those enriching values that Sterlite Tech was being able to leverage during the journey of access network transformation.
Sterlite Tech’s pFTTx architecture thus evolves around the fundamentals of SEBA exemplar platform. The bare-metal OLTs and aggregation switches are programmed through Hardware Abstracted vOLTHA layers, while vOLT and vONU kind software-defined virtual functions enforce the business logic through the platform SDN controller.

Sterlite Tech’s edge orchestrator and O/BSS products integrate the workflows and lifecycles of the complete set of broadband services that are rolled out over the programmable FTTx infrastructure.

**Solution Approach**

Sterlite Tech’s pFTTx solution approach is built over a continuous cycle of four phases, which transitions from innovation to incubation, incubation to the early product, and early product to industrial implementations. The mindset of Open Innovation drives Sterlite Tech’s innovation to incubation transition cycle for pFTTx, leveraging the community involvement of ONF, OCP, TIP, and others. The transition from incubation to early product development is matured through Customer Advocacy programs, which instigate co-conceptualize and co-development relationships.

The transition of early product to industrialized version is driven by Sterlite Tech values - aligning with Sterlite Tech’s Programmable, Open and Disaggregated Solution approach, and integrating the learnings accumulated from the field trial experiences at Sterlite Tech’s own FTTH network. And finally, the motivation of bringing a differentiated and best of breed technology solution paves the way for another cycle of innovation, gaining the grounds from the industrialized version.
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About Sterlite Technologies:
Sterlite Technologies Ltd [BSE: 532374, NSE: STRTECH], is a global technology leader in smarter digital infrastructure. With a pure-play telecom focused business that develops & delivers optical communication products, network & system integration services and OSS/BSS software solutions, Sterlite Tech has sales network in six continents. The Company has manufacturing presence in India, China & Brazil, and aims to transform everyday living by delivering smarter networks. With a strong portfolio of over 162 patents, Sterlite Tech is home to India’s only Centre of Excellence for broadband research. Projects undertaken by the company include intrusion-proof smarter data network for the Armed Forces, rural broadband for BharatNet, Smart Cities’ development, and establishing high-speed Fibre-to-the-Home (FTTH) networks.