Flexible customization to satisfy various requirements on access networks

NTT Laboratories are developing the flexible access system architecture (FASA). FASA is flexibly customized to meet various service requirements (e.g., higher bandwidth efficiency, lower latency, and higher reliability) on access networks.

Features

- Modularization of network functions on access network elements as software modules and external hardware modules.
- Support of various service requirements/transmission schemes on the same hardware by replacing software modules with common APIs, external hardware modules, and software modules inside general-purpose functions.
- Reductions of time and cost of new developments by reusing modules with open common APIs between different systems.
- Flexible and quick responses to future changes in standardizing specifications of services to be transmitted on access network elements by replacing or adding on modules.
- Small starts and reduced initial facility construction cost by accommodating services with different service requirements (e.g., residential and enterprise services) on the same hardware by replacing or adding on modules.
- Higher performances (e.g., low latency) optical access systems by using add-on functions communicating with external equipment (e.g., wireless parent stations).

Application Scenarios

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