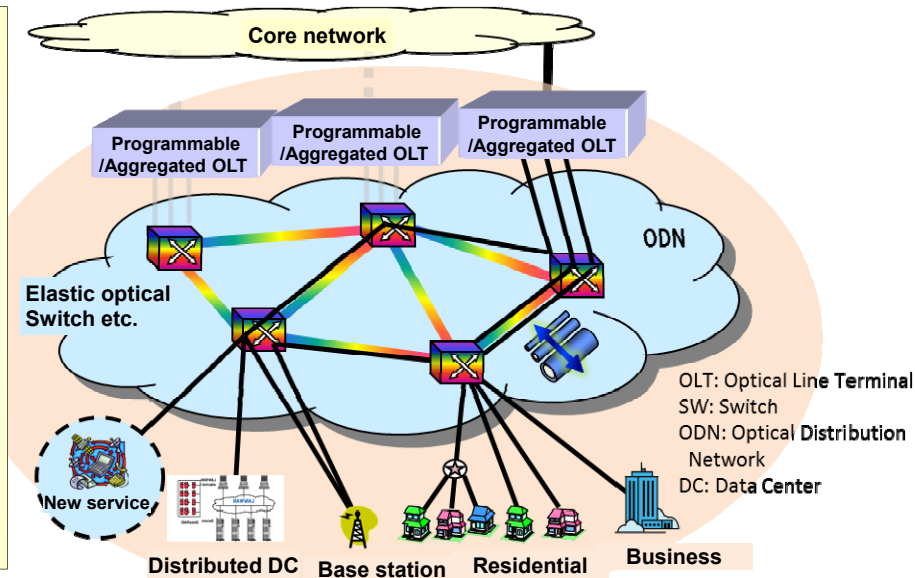


Network Provisioning System for Elastic Lambda Aggregation Network

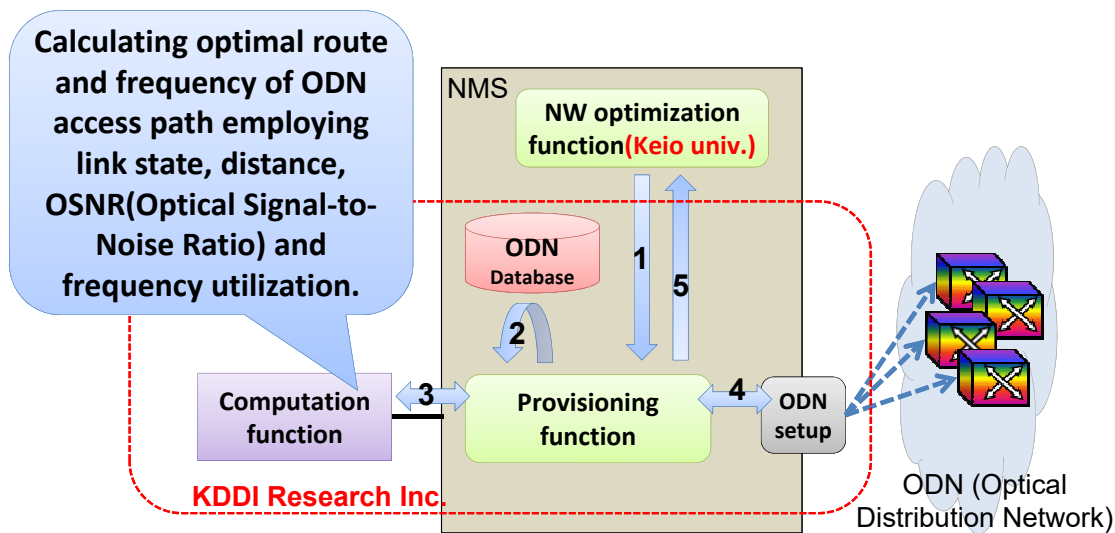


Overview: Elastic Lambda Aggregation Network (EΛAN)

- Provide several network services that have different protocols and QoS requirements on a single EΛAN.
- Optical access paths that have flexible bandwidths are set on optical distribution network(ODN).
- Transmission distance can be extended compared to today's access network.



Provisioning system



Provisioning workflow

1. Request from a client to provision an access path in an ODN.
2. Obtain ODN information (Link state, distance, OSNR, Frequency) from the ODN database.
3. Calculate the optimal route and frequency by using the computation element.
4. Setup optical switches in the ODN according to the obtained result in the process "3".
5. Notify completeness of the provisioning to the client.

This work was supported by "R&D for Elastic Lambda Aggregation Network", contract research of National Institute of Information and Communications Technology (NICT) of Japan.