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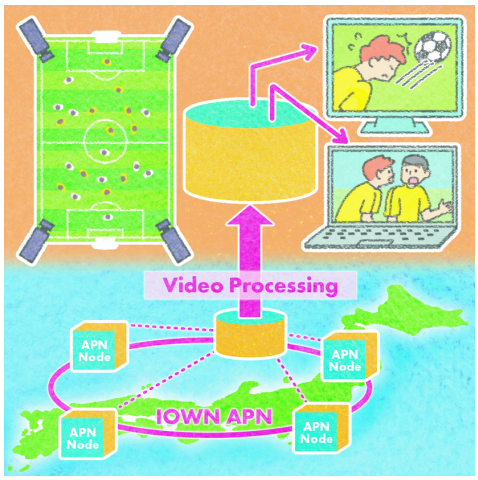
Connect multiple points on demand, in-network video processing enables real-time live streaming

On-demand APN and In-network video processing

IOWN Evolution On-Demand Type All-Photonics Network

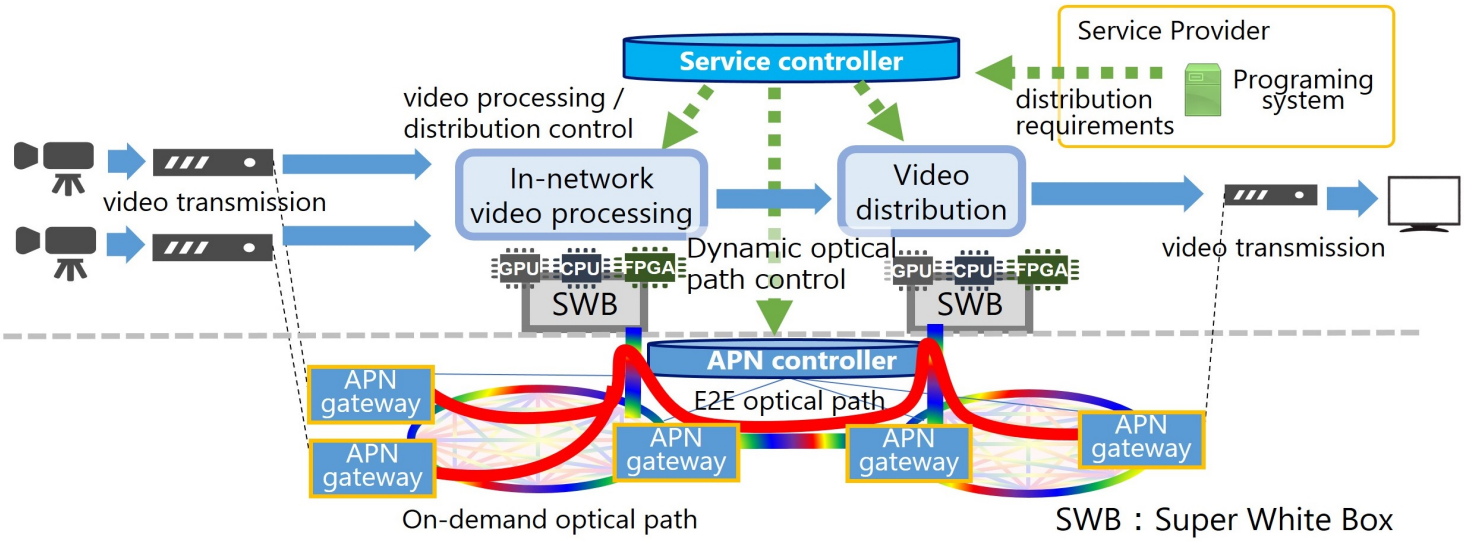


Background

The conventional optical transmission network could not dynamically open paths, making it difficult to provide flexible services on demand. In addition, there were large processing delays in video editing and distribution processing, making it difficult to provide real-time live distribution.

Summary

We have developed technologies that allow optical paths to be used on-demand for various use cases, and methods that perform video processing on programmable devices in the network without changing the data being transmitted. This enables near real-time live broadcasts from regional stadiums.



Features

- Providing users end-to-end optical paths (ultra high bandwidth, ulra low latency) on-demand spanning across access, metro and core for variou use cases and various service grades
- Programmable optical video switches deployed in APNs enable video processing and editing on the network by processing each video block
- Efficient use of network resources through on-demand network routing based on organization information from operators and personalization requests from users

Future_benefits

The real-time communications infrastructure can be leveraged to deliver unprecedented real-time broadcast and distribution services, enabling interactive video experiences.

Exhibiting Company

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APN: All-Photonics Network