## Your Authorized Development Collaborator (ADC)

IP Infusion and Broadcom signed an Authorized Development Collaborator (ADC) agreement in 2017. IP Infusion is approved for ADC operations globally. Being an ADC means Broadcom recognizes IP Infusion's expertise with StrataDNX, StrataXGS®, CSG, BroadPTP™, BroadSync™ and ROBOswitch™.

Because of this expertise, OEMs and Communications Service Providers (CSPs) can depend on IP Infusion to assist them in developing network infrastructure products based on these Broadcom products.

**Why should you consider IP Infusion?**

We address tough technical challenges:

- IP Infusion is working with a communications provider to develop a cell site gateway router for 5G networks that needs QoS and Sync-E features. IP Infusion developed: QoS features on QAX including the QoS bandwidth in percentage, QoS burst size, DSCP to PCP mapping, queue depths and WRED thresholds; 100G QSFP port laser shutdown after the port was disabled; QSFP28 diagnostics data retrieval from EEPROM; various switching and routing protocols including BFD. IP Infusion addressed the Sync-E recovered clock quality issue which is output from QAX to an external DPLL on port speed change from 25G to 10G. As a result, the QoS and Sync-E features for 5G networks was achieved.

- A leading supplier of optical solutions engaged IP Infusion to develop a solution to support multicast on the Integrated Routing and Bridging (IRB) ports for its Disaggregated Router. The DNX pipeline flow requires one recycle port (< 32 available) for each of the 4K or 10K IRB ports. IP Infusion redesigned 2-pass packet processing so that additional internal headers are embedded and parsed, enabling one recycle port to support any number of IRB ports.

- A large provider of open networking solutions engaged IP Infusion to compress the resource utilization of an OLT so that it could be migrated from an ARAD+ to a QUX. This was achieved by developing the following optimizations: use of KAPS and other memory instead of TCAM, a modified PON LLID indexing approach, a modified forwarding model, SDK changes to use CPE rather than CPE/LLID for anti-spoofing. We also optimized the key-width and action-width of TCAM rules and split KAPS into LPM and Large direct DB.

## WE DELIVER

**When you need a creative approach to network infrastructure product development (e.g., CSR, CAS, OLT, Router/Switch, network probe, etc.), you can have the confidence that IP Infusion has both the proven product development experience and Broadcom approved product expertise to provide an excellent technical solution.**

## CONTACT US

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IP Infusion® is an expert software consulting and development company focused on advancing the security, speed and intelligence of data packet transmission. IP Infusion has development facilities in U.S., Canada, Japan, Korea, China, India and Israel.