

# JASON WEIL

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## NETWORK DESIGN AND PLANNER

### Design, Deploy, Standardize, and Measure ISP Network Designs

Results-driven network designer and implementer skilled at building cross-functional teams and collaborative groups to ensure quality implementations on schedule. Ability to communicate and advocate advanced technology concepts effectively at all levels of an organization.

Successful at authoring network architectures and leading large-scale technology deployments; standardizing new protocols, features, and architectures; and working with external teams to drive consensus and support in areas including network interconnection, network interoperability standards, and telecom regulations. Areas of expertise include:

- IPv6 ISP Planning and Deployment
- Service Provider Routing, Switching and MPLS
- Home Routing and Service Discovery Design
- Network Performance Measurement and Analytics
- ISP Public Policy and Regulatory Compliance

## PROFESSIONAL EXPERIENCE

**STEALTH STARTUP**, Orlando, FL

**2022-Present**

**Co-Founder, COO**

Develop a platform and services to support enterprise and service provider reclamation of their IPv4 address resources for monetization purposes. Provide product planning and strategy, operations and network design leadership with a goal of having at least 5 customer experiences completed by the end of 2023.

- Business development Plan - Develop business creation documents including Operating Agreement, Partnership Agreement, Capital Table formation, Master Services Agreement, and Statement of Work templates
- Product Development Plan - Provide detailed product plan for the design and deployment of services into customer network with the goal of automation and incremental deployment to ensure no impact to users of the network.

**ORACLE CLOUD INFRASTRUCTURE**, Orlando, FL

**2021 - 2022**

**Consulting Member of Technical Staff, Network Engineering**

Technical lead for large projects key projects in the Network Engineering team primarily around IPv4 Management and Data Center Deployment.

- IPv4 Program Lead - Led the team that provided IPv4 address strategy, reclamation and purchase of IPv4 addresses. Pushed efficiency strategy into new network designs, led planning on impact of IPv4 depletion, and managed the entire end-to-end purchase process for new IPv4 addresses backed by a budget over \$150+ Million budget.
- Datacenter Build Technical Lead - Served as technical lead for the buildout of a 3 site datacenter complex in the Chicago market. Led design planning to include support of one of OCI's largest customers and their proprietary technical needs.

**CHARTER COMMUNICATIONS**, Orlando, FL

**2020 - 2021**

### **Principal Engineer, Network Standards, Policy and Partnerships**

Primary lead for Standards Development in multiple organizations including IETF, Connectivity Standards Alliance (formerly ZigBee), Wi-Fi Alliance, and Wireless Broadband Alliance with a focus on monitoring and promoting new technologies with a direct impact to Charter's Internet products. Contributed to the development of new standards to support deployments in the network. Responsible for forming and communicating strategic plan around new emerging technologies to senior leadership.

- Served as lead shepherd for a trial deployment of DNS over HTTPS(DoH), supported resolution of initial technical hurdles, worked to update Charter's DNS privacy policy, and led coordination with Google Chrome as part of their DoH Experiment.
- Lead participant and primary voter for Charter in the Connectivity Standards Alliance Matter (formerly CHIP) subgroup with a focus on WiFi commissioning, the interaction of the WiFi Access Point, and Provisioning teams. Responsible for educating product and creating a strategy for the adoption of Matter to interact with IoT devices in the home network.
- Provided strategic guidance for a simplified WiFi Device provisioning protocol with the goal to provide a zero touch onboarding experience and unique per device WiFi credentials working with WiFi Alliance's Easy Connect group, Amazon's Frustration Free Setup service and the open source OpenSync Framework.

**SAMKNOWS LTD, Tysons, VA**

**2018 - 2019**

### **Business & Product Development Lead, North America**

Lead manufacturer and large ISP business development responsible for strategic planning and integration of the SamKnows Router SDK into consumer network devices and enhancing the product based on the current needs of large North American ISPs. These roles require skills in prospecting, product and feature development and specification and project management for software integration into home networking devices and cloud device management platforms.

- Created a comprehensive strategy and business plan for the integration of the SamKnows software SDK into wholesale CPE manufacturer devices. Proof of concept integrations are complete and currently in commercial terms negotiation phase with multiple manufacturers.
- Developed and marketed a regulatory compliance package designed to meet the needs of the Universal Service Fund's CAF Reporting program for validating Internet performance. The CAF regulatory compliance package is complete and is currently undergoing pricing analysis and feedback.
- Develop requirements and specifications for a product enhancements based on active network performance metrics and analytics targeted at ISP technical support and customer care staff leveraging past experience in network operations, engineering and architecture at very large cable operators and feedback on current needs from prospects and current customers.

**CHARTER COMMUNICATIONS (previously TIME WARNER CABLE [TWC]), Herndon, VA**

**2010 - 2017**

### **Principal Architect/Engineer, Network Standards and Technical Policy (2010 - 2017)**

Provided measurement methodology leadership and technical guidance to senior management and government affairs in response to government regulators and legislation impacting cable network design and operations. Led IPv6 home network provisioning design and contributed to protocol standardization primarily for purpose of IPv6 adoption and deployment both internally and externally through trade and standards organizations including IETF, CableLabs, SCTE, DLNA and the Broadband Forum.

- Proposed, drafted, collaborated and chaired (IETF LMAP & DLNA IPv6 Working Groups) efforts that standardized network technology solutions, providing device interoperability and consistent functionality with Internet Protocol Version 6 (IPv6) focus.
- Provided subject matter expertise (SME) in the area of Internet performance measurement for the FCC's Measuring Broadband America project that impacted the methods used for regulatory compliance testing.
  - Analyzed internally collected performance data to validate accuracy of 3<sup>rd</sup> party test results, resulting in the removal of faulty 2012 government report data by demonstrating flaws in the test infrastructure.

- Advocated and subsequently chaired LMAP Working Group within the IETF to standardize a Broadband performance measurement architecture; group completed chartered goals in 2017. This WG created an architecture and supporting Informational Model, and YANG Data Model.
- Served as editor for a consensus-based report for the Broadband Internet Technical Advisory Group (BITAG) titled Interconnection and Traffic Exchange on the Internet, providing important background technical information to the FCC and lawmakers as the agency was updating rules on Open Internet Standards.
- Created IPv6 technical deployment plan that provided the system and network architecture overview for deploying dual-stack customer CPE support and single stack IPv6 cable modem management as IPv6 program technology leader.
- Drove CPE and edge router vendor support for the adoption of IPv6 standards into hardware and firmware critical for the deployment of IPv6 in cable access networks.

**COX COMMUNICATIONS INC, Atlanta, GA**

**2002 - 2010**

**IPv6 Principal Architect, Technology Architecture (2009 - 2010)**

Functioned as technical lead and stakeholder for IPv6 program, a funded multi-year initiative for coexistence and transition from IPv4 to IPv6 across all products, services and infrastructure.

- Designed the IPv6 Addressing and Routing plan including IGP (OSPFv3), EGP (mBGP4), and MPLS (6PE) designs.
- Managed IPv6 program budget, including capital and operational expenditures, enabling IPv6 on Cox Backbone within budget by replacing needed hardware, provisioning systems and software licenses.
- Served as primary Cox representative within standard's organizations, including IETF and IEEE, and represented Cox within CableLabs organization working groups, contributing to IPv6 standards for cable modem provisioning, access and home network operation.

**Senior Design Engineer, Network Engineering (2004 - 2009)**

Developed the design and architecture guidelines for the backbone network and datacenter facilities. Managed the design for all new capacity and circuit additions including a multimillion-dollar hardware budget, capacity plan and fault management plan for the Cox High Speed Internet backbone.

- Created network models using OpNet network modeling software for budgeting, capacity planning, new feature impact analysis and traffic fault analysis. Developed a shared risk group model that correlated DWDM wavelength and fiber failure impact at the network traffic layer.
- Advocated for the successful inclusion of a 100 Gigabit Ethernet (GigE) standard in addition to the proposed 40 GigE standard as member of IEEE High Speed Study Group and the resulting 802.3ba Task Force.
- Authored deployment plan and lead 1 of 3 implementation teams that deployed Cox's Second Generation Datacenter (POP) project, a forklift upgrade to core routing and switching functions at backbone POP locations.

**Network Engineer, Network Operations (2002 - 2004)**

Performed engineering test validation and created deployment documentation based on engineering requests, including BGP routing policies, MPLS Traffic Engineering and DiffServ QoS deployments on Juniper and Cisco routers.

Authored Cox's BGP Peering (Interconnection) Policy and BGP community-based customer control policy, giving commercial customers granular control over inbound and outbound traffic.

## **ADDITIONAL RELEVANT EXPERIENCE**

**COGENT COMMUNICATIONS, Washington, DC, Network Engineer / Integration Specialist**

**NETRAIL INCORPORATED, Atlanta, GA, Senior Design Engineer, Network Engineer**

**IBM GLOBAL SERVICES, Alpharetta, GA, Technical Support Analyst**

## TECHNICAL SKILLS

Protocols:	BGPv4, OSPFv3, IS-IS, PIM, UPnP, DOCSIS, DLNA, SSDP
Platforms:	Juniper & Cisco Service Provider Routing Platforms
Programming Languages:	Python
WAN Technologies:	DWDM, MPLS TE, L2 / L3 VPNs
Network Modeling Platform:	OPNET SP Guru
Network Measurement Platforms:	Arbor Peakflow, DeepField, Sandvine

## EDUCATION

**Bachelor of Business Administration (BBA) with Honors, International Finance**  
UNIVERSITY OF GEORGIA, Athens, GA