Solution Use Case Summaries…

netFLEX® Life-Cycle Service Automation (the *Circle of Life*)

Problem… Solution… Outcome

Today's automation is disjointed. Most solutions only address a subset of the problem. To automate upfront activation of a network and service, is much different than that of Day-2 automation of network health and visibility, leveraging data & analytics (as just one example). In order to address the full *life-cycle of the service*, the **netFLEX® Optical Domain Control (ODC)** platform draws on its 3 key feature categories required for Service Automation. Namely, Discover, Analyze, and Control. **netFLEX ODC** has an understanding of realtime inventory (Discover), analytics with advanced algorithms to make it 'actionable' (Analyze), and Provisioning (Control) automation leveraging all of these – to instantiate service upfront, and changes thereafter (Control – as OnDemand, Scheduled, or Control-Loop-Defined). The resultant outcome… network & service automation that reflects 'programmable' automation at every 'stage of life.'

PERSONALIZATION

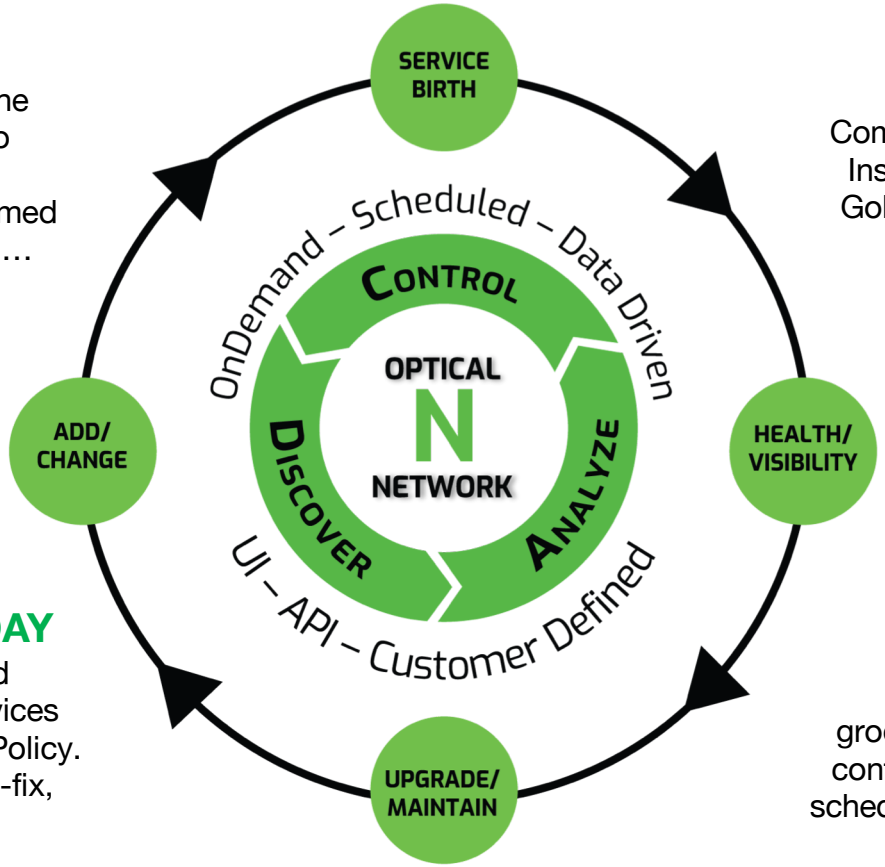
From birth and beyond – ability for the network operator or end customer to uniquely 'define the experience' for OnDemand, Scheduled, or Programmed (Data-Driven, IBN) interactions. And… do so through uniform UI and API access.

ADD/CHANGE

Similar to birth, ability to add/change existing services OnDemand through UI/API for instantiation.

EVERY SECOND, EVERY DAY

Realtime and all-the-time discovered inventory & analytics to monitor services against upfront Golden Config and Policy. Available to all apps to auto-detect, -fix, -notify, and -maintain.



SERVICE BIRTH

A-to-Z automation with native Path Computation Engine (PCE) for 'service birth.' Instantiated with Realtime Design/Inventory, Golden Config, & Policy (IBN) for automation of Day-2 visibility-and-control to ensure service uptime and performance.

HEALTH/VISIBILITY

Any exception to Day-1 'birth' around Golden Config and Performance is auto-detected, auto-tested / triaged, auto-notified, and auto-fixed where possible.

UPGRADE/MAINTAIN

When a network requires an upgrade, groom, routine maintenance or similar work - control automation is leveraged to do in bulk, scheduled, or other 'human hands off' options.

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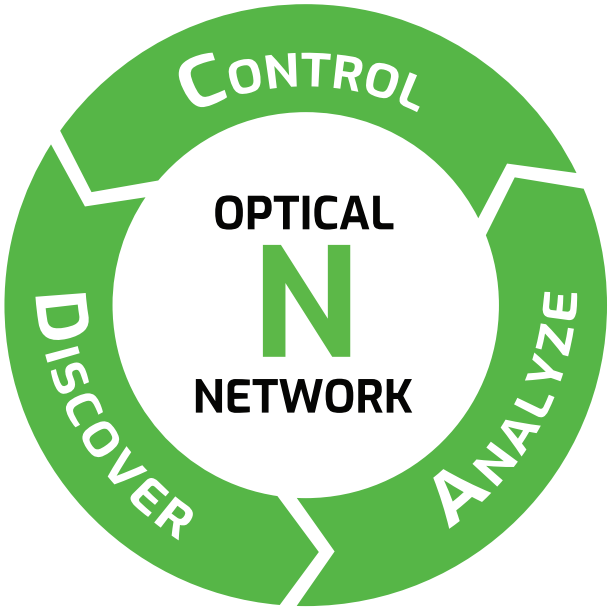
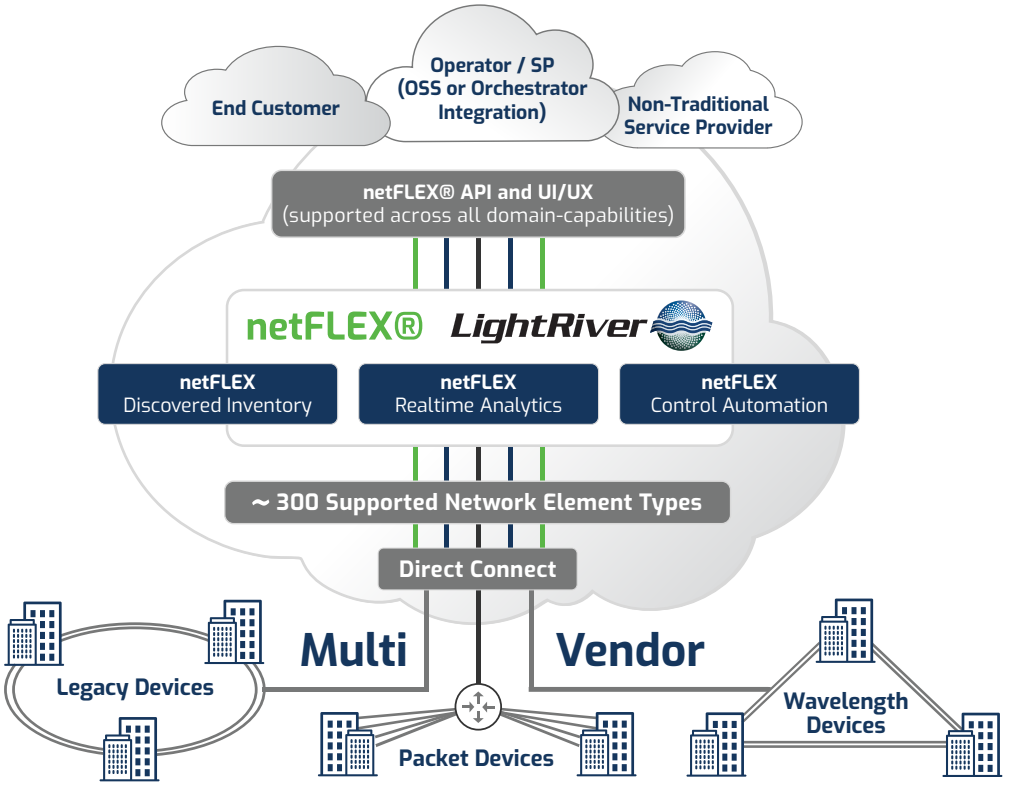
THE LIGHTRIVER RESPONSE:

netFLEX® PROGRAMMABLE NETWORKING



netFLEX® Reference Framework

- **SDN:** Optical Domain Control for end-2-end Network Abstraction
- **Only Multi-Vendor Solution:** that includes Discovered Inventory, Actionable Analytics, & Control Automation
- **Network FLEXibility:** and automation across multiple generations of transport technologies and suppliers
- **Programmability:** of Visibility & Control, as the Operator & Customer would Define
- **Digital Experience:** enablement of UI, API, and Program-and-Go for Every Functional Area



Integration & Automation is supported via the following APIs / Protocols:
TL1, CLI, SNMP, MTOSI, REST/JSON, NETCONF/YANG, Flat Files, Custom, and more…

netFLEX API

SDN ABSTRACTION

MAKE IT ALL LOOK THE SAME!

netFLEX UI/UX

For each functional area and in total – Industry Best

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