

netFLEX[®]

DISCOVER REALTIME INVENTORY (DRI)

Background...

Static Data, Maintained by Humans

Most Network Operators have now realized that the traditional approach of maintaining Network Inventory has the biggest impact on automation and digital transformation.

For nearly all Service Providers, keeping track of what's in the network has become overwhelming, especially when you factor in requirements for Service Layer inventory and keeping track of configuration and logical attribution, beyond just the 'physicality' of the network. Strategic aspirations exist around Network and Service automation, providing cross-domain topology and correlation, Assurance automations for test/triage/remediation, realtime understandings of actual capacity to sell to or grow upon, and any related extension of this to an end customer for self-serve. Unfortunately, all of these pursuits are 'sunk' if this is dependent on manual, static, inaccurate, traditional OSS/Inventory platforms and approaches. Beyond the impact to automation as described, the idea of running an operation where the underlying assets used to drive revenue are unknown or wrong - should be unthinkable.

The Answer...

Discover Realtime Inventory (DRI) from the As-Is-Network

The foundation to bring Network and System Integration together in a way that enables ALL of the Network-as-a-Service automation use cases – is that of Realtime Network Discovery of both Resource and Service Inventories. This is no trivial task as the commitment to this level of automation has to account for the depth and breadth of a service providers network which reflects multi-vendor, multi-generation, and multi-technology. Across these disparate environments, the command-and-control protocols are vast and the nature of the communications over these protocols are never the same by network element (NE) and related SW releases.

How is this then accomplished? Discovery Engines are required to 'marry-up' to all of these disparate network elements, technologies, variations of protocol/communication, and OS-versioning. This centrally deployed discovery function is required for the first NE connection, but also able to catch any change that occurs thereafter for both physical and logical changes to the network and associated services. All of this collected data must reside in a datastore that can be accessed via an open/extensible interface (API/Services) to allow other consuming applications to get bulk requests as custom-defined, and any related changes that occur.

Once accomplished, **Discover Realtime Inventory** becomes the foundation for 'the Truth' of what actually exists in the network, what is the actual service path and topology, the 'bridge' between the network and consuming applications, and the enabler for automation that will change the operator and end customer experience.

\$ Millions Saved Leveraging your Existing Network



Discover your unused network & capacity. Likely only 70% of your inventory is accurate. Reduce service delivery and assurance functions by 80% or more leveraging the 'truth.'



Save time spent manually reconciling and trying to maintain records while your network is constantly evolving.



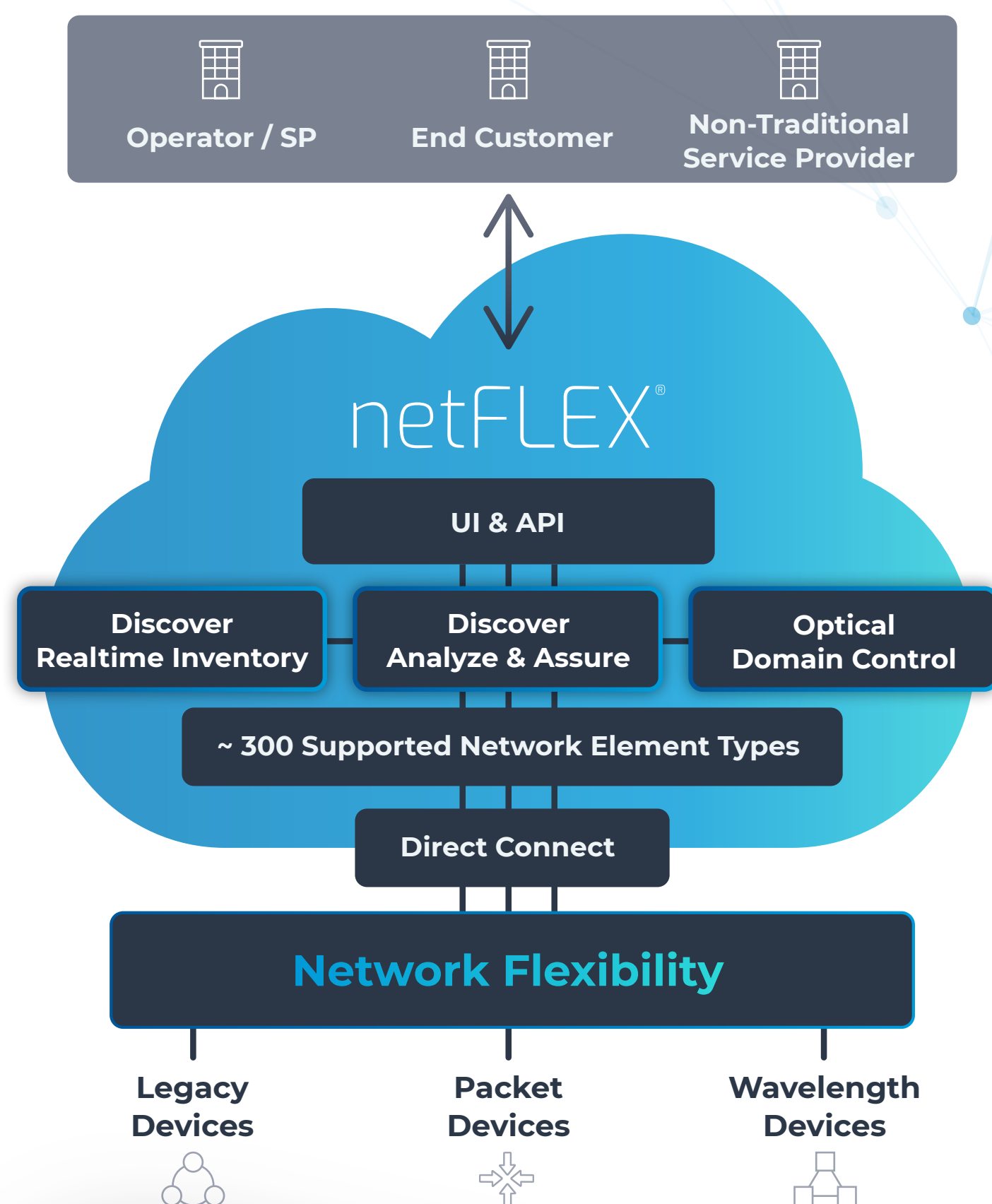
Industry best practice reflects 3%-5% is 'available' as network and capacity that is already in place to reuse and grow - which means potentially tens of millions in savings.

netFLEX[®]

Simplify, Standardize, Personalize

netFLEX was architected for end-to-end network and service automation where realtime (discovered) inventory, actionable analytics, and control automation were built for SDN abstraction to allow for uniform management of multi-vendor and multi-technology and make it 'all look the same.' This comprehensive Optical Domain Controller Framework supports full life-cycle service automation of legacy and nextgen transport networks. netFLEX supports a full complement of network-health-automation leveraging data/analytics to baseline performance and make it all 'actionable.'

The ultimate differentiation for LightRiver is that we participate in the end-2-end engineering, design, lab/factory commissioning, field install, and network management and automation of some of the most complex, multi-vendor, technology diverse and largest optical networks on the planet. This visibility and touch, allows us to build advanced automations against that which is deployed in the real world vs. that which is developed against captive lab environments.



netFLEX[®]

Realize True Network Flexibility

- **SDN:**
Optical Domain Control for end-2-end network abstraction
- **Only Multi-Vendor Solution:**
That includes discovered inventory, actionable analytics, & control automation
- **Network FLEXibility:**
Across every functional area
- **Programmability:**
Of visibility & control, as the operator & customer would define
- **Digital Experience:**
Enablement of UI, API, and program-and-go for every functional area

**For each functional area,
and in total - Industry Best!**

