**The Operational Myth Debunked**

Disaggregated network solutions have raised continuous interest from communication service providers (CSP) and cloud providers. In fact, an average 35 percent of service providers are already deploying modern cloud-native or disaggregated networks – from access to core – while more than 50% plan to do so within the next five years (Heavy Reading, [*A Radical Network Change to Cloud*,](https://get.drivenets.com/download-heavy-reading-whitepaper-a-radical-network-change-to-cloud)September 2021).

But there are challenges. The main one is the operational model. CSPs believe the new model brings more complexity in term of planning, sourcing, integration, installation, growth, maintenance and support.

However, when it comes to DriveNets Network Cloud, the opposite is true, as confirmed in a recent study carried out by KGPCo, the leading system integrator of network solutions – both legacy and disaggregated – based on their multiple network deployments.

KGPCo study confirms that a disaggregated, cloud-native network infrastructure can be simpler, faster and more costeffective to operate than the integrated, monolithic chassis-based networks that CSPs rely on today.

# The Five Main Benefits of DriveNets Network Cloud

## 50% Less Planning Efforts

IP network planning can be cumbersome and take months. The planning time is heavily impacted by the number of components, service requirements, capacity forecasting, site constraints, and more. While integrated chassis solutions are limited on their abilities to simplify the overall process, DriveNets Network Cloud delivers:

* **One design process and ease of expansion:** DriveNets Network Cloud relies on only two standard building blocks (NCP and NCF), as compared to five to ten integrated router solutions with multiple line card models. With DriveNets, the same NCP and NCF can be deployed across all network domains, while different integrated router solutions are required per network domain. Network Cloud is easy to install and cost-efficient, enabling scalable growth capacity, while the chassis model requires full system expansion.
* **Modular design:**  DriveNets Network Cloud reduces the cost-causer financial model’s impact on a CSP user organization, as internal organizations only pay for modules and not for the full chassis price.
* **Better management and reporting tool:** With DriveNets Network Orchestrator (DNOR), it is simple to monitor, plan and optimize network capacity through extra visibility and easy API-based automation.

## 40% Faster Order-to-Service Time

Building a range of chassis routers often requires different proprietary components (ASICs, optics, cables, etc.), often different per model, leading to complexity and high-lead time. DriveNets Network Cloud provides:

* **Simplified sourcing:** DriveNets solution only requires six SKUs (Stock Keeping Unit) vis-à-vis more than 16 SKUs for a chassis solution. This speeds up the project cycle time while simplifying stock and inventory management.
* **Standard components:** DriveNets eliminates the need for custom or proprietary rails, power-feed infrastructure, or proprietary optics. With DriveNets Network Cloud, standard components can be easily implemented, providing wide choice and flexibility in sourcing.

**Less configuration:**  With common hardware with standard data plane, control plane and optics components, DriveNets solution requires less configuration to validate the system across one or multiple network domains.

process for any configuration, enabling a 50%-time reduction vis-à-vis a chassis assembly.

**Pre-loaded software:** With DriveNets, BaseOS and self-provisioning agents are installed on white boxes before entering CSPs’ production environments, where the right network operating system (NOS) software is securely installed and configured through zero-touch provisioning.

Hardware testing and hardware/software integration can take several months before being ready for production. On the

other hand, DriveNets Network Cloud’s architecture offers:

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**Automated testing:**

DriveNets’ standard architecture enables the deployment of script-based, automated validation

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include teams, materials and dedicated planning to adapt to each physical location’s constraints. The DriveNets Network Cloud changes this paradigm and drastically reduces installation time as compared to what chassis models demands, with:

* **Simplified installation:** The DriveNets Network Cloud standard delivers a small form factor hardware preconditioned in a lab before being installed on site, reducing expensive field activities while adapting more easily to site constraints.
* **Repeatable process:** DriveNets’ installation process is universal across all node sizes, reducing training expenses and costly installation errors.

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| DriveNets is a leader in cloud-native networking software and network disaggregation solutions. Founded in 2015 and based in Israel, DriveNets offers communications service providers (CSPs) and cloud providers a radical new way to build networks, substantially growing their profitability by changing their technological and economic models. Learn more at www.drivenets.com. |

* **Easy system configuration:** DNOR’s zero-touch provisioning significantly reduces system configuration time and effort.



chassis routers. DriveNets Network Cloud solution offers a better way to add capacity and functionality:

* **Low incremental cost:**  With DriveNets, growing capacity can be easily achieved by adding NCPs and NCFs, two small form factor modules, growing the Network Cloud cluster with 4 Tbps steps. Traditional integrated models, on the other hand, demand adding expensive line cards or replacing the whole system with a bigger chassis model (“forklifting”).
* **Lightweight deployment:**  The installation of NCPs or NCFs can be easily done with one professional as opposed to the installation of a full system requiring a team of technicians.
* **Minimum maintenance windows:** Adding capacity (NCP/NCFs) does not require interruption of service. Software upgrade is achieved per component (firmware, BaseOS, DNOS), reducing maintenance windows to their minimum and preventing revenue loss.

Until recently, CSPs and cloud providers had no choice but to rely on integrated chassis routers, leading to inefficient resource utilization and a sub-optimal capex and opex structure. DriveNets Network Cloud supports the complete virtualization of networks and compute resources, delivering better results more efficiently and effectively, while enabling the physical infrastructure to operate as a shared resource to support multiple networks and services.

By detaching network growth from network cost and increasing network profitability, DriveNets offers a radical new way to build networks.