



5G System integration Framework (5G-SF)

Why does the industry need System Integration (SI)?

There's dynamic transformation awaiting operators public 5G network and enterprise private 5G networks just around the corner, resulting from the deployment of next-generation network elements.

While 5G network architecture promotes disaggregation in RAN, transport, core and offers significant advantage in terms of flexibility and distributed deployment, it also renders few challenges in the integration of all the key components constituting the network.

Success of a distributed and disaggregated network hinges heavily on the ability of operators and enterprises to:



Identify the efficient combination of network functions and the underlying platforms



On-board the combination of network functions on a multi-cloud environment



Scale for deployment across diverse areas including radio access, transport and core elements that are cloud native (for both lab integration as well as in the production environment)

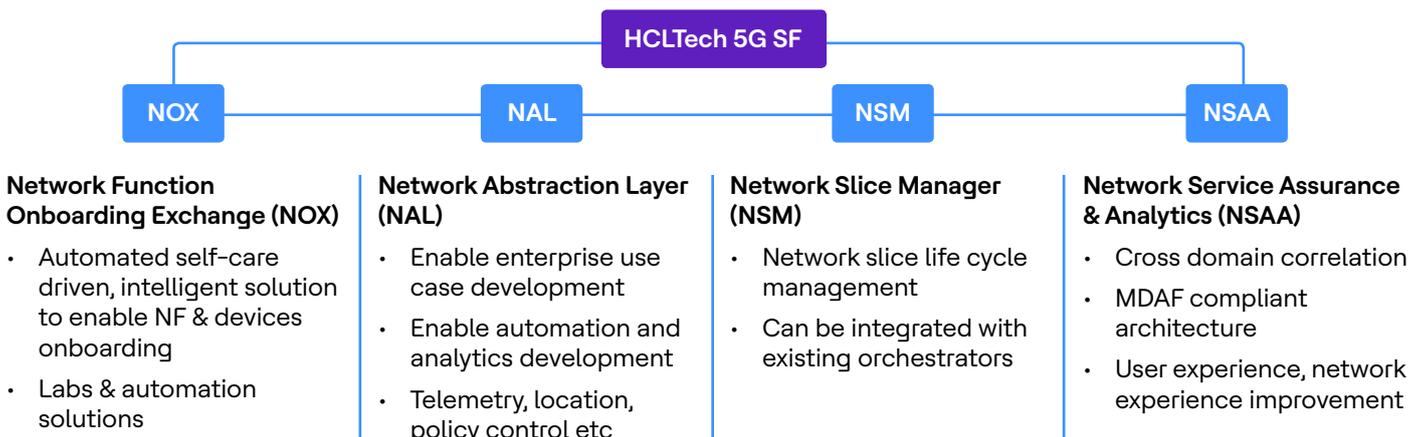


Create competencies in the disaggregated architecture

Operators, enterprises and vendors need an SI partner, who can scale in diverse technology domains to integrate, deploy and operate the network.

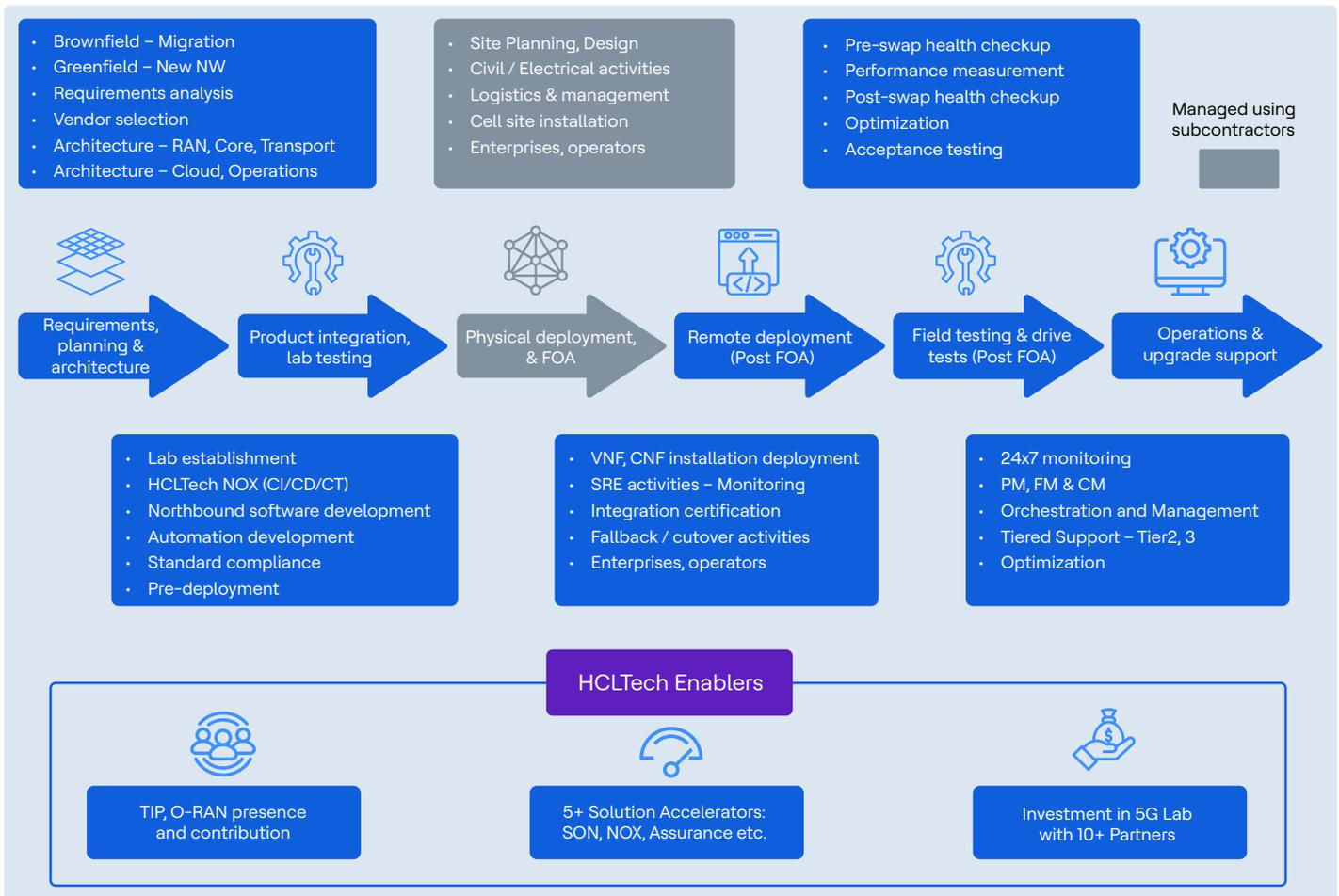
System integration supercharged

Leveraging HCLTech's presence across the telecom ecosystem, we have created a set of services to address unique SI requirements for disaggregated and distributed network domains that include RAN, transport, and core.

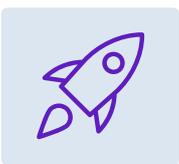


HCLTech SI framework

Powered by our solution accelerators to optimize each phase of the life cycle

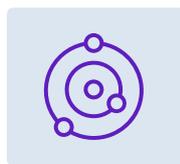


Our key differentiators



Proven products & solution accelerators

- NOX – Network Onboarding eXchange
- NSM – Network Slice Manager
- NSAA – Network Service Assurance and Analytics
- NAL – Network Abstraction Layer
- ANA – Augmented Network Automation



Eco-system presence from Semi, OEMs, TSPs, Hyperscalers

- Ongoing engagement with Tier-1 companies for product development, network engineering and validation
- Significant presence in O-RAN, TIP. SI for O-RAN Plugfest activities



Investments in Labs & Products, Solutions

- Investments in 42 labs across the globe
- Investments in community participation, accelerator development