



StarlingX Open Edge Infrastructure

Intel 开源技术中心 金运通

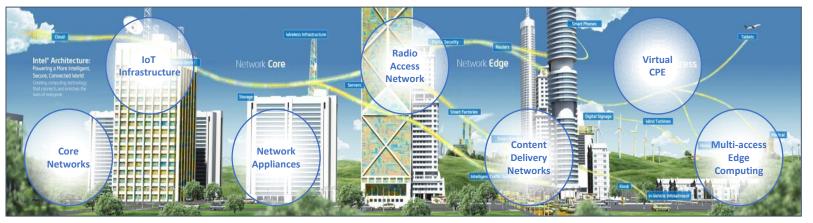




Image source: https://commons.wikimedia.org/wiki/File:Starling_Murmuration_-_RSPB_Minsmere_(21446738793).jpg

Wind River® Titanium Cloud Addresses Key Cha

Telco Infrastructure



- Proven, Integrated virtualization platform saves Time-To-Market
- Delivered latency, resiliency and performance for Edge use cases
- Streamlined installation, commissioning and maintenance
- End-to-End security and Ultra-low latency for Edge applications
- 100% compatible with open industry and de facto standards
- Full support for multi-layer HW and SW decoupling



Energy



Smart Buildings



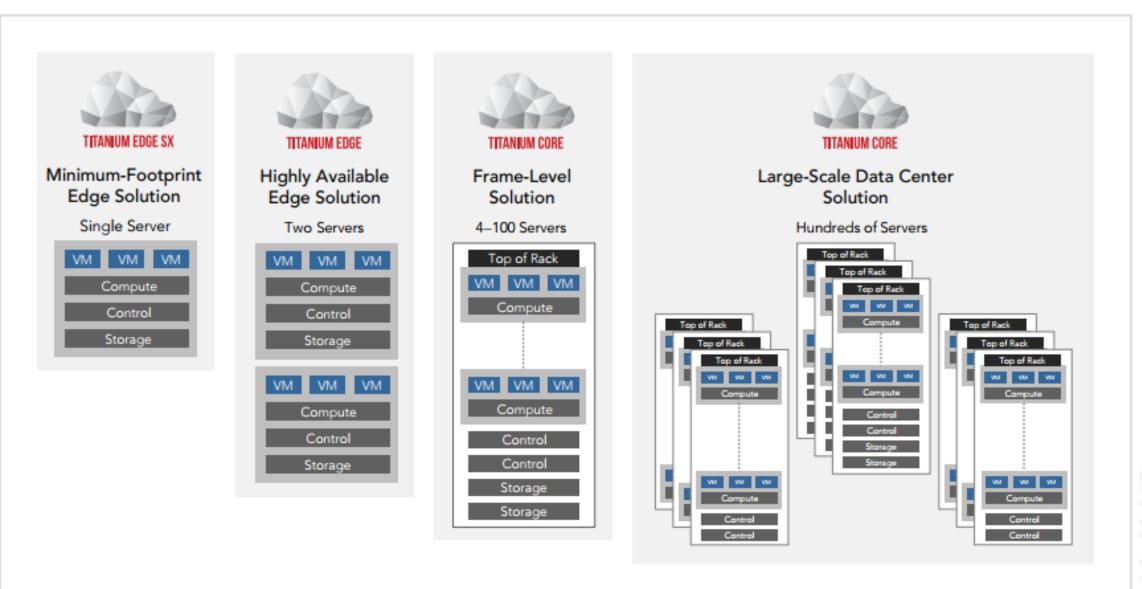
Manufacturing



FULLY SCALABLE SYSTEM-LEVEL ARCHITECTURE



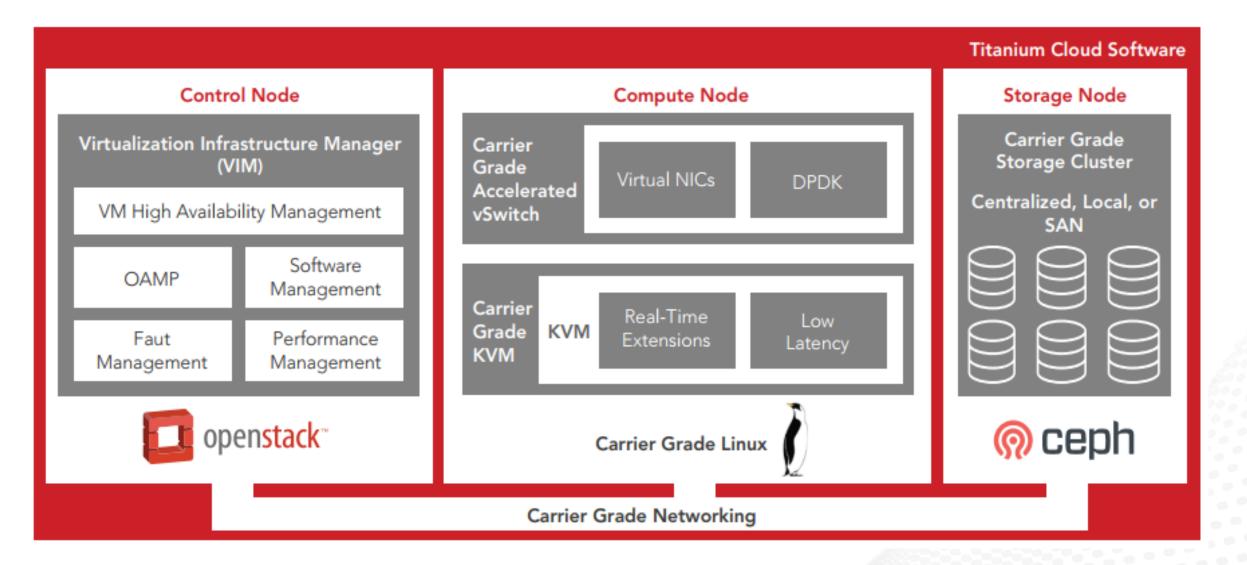








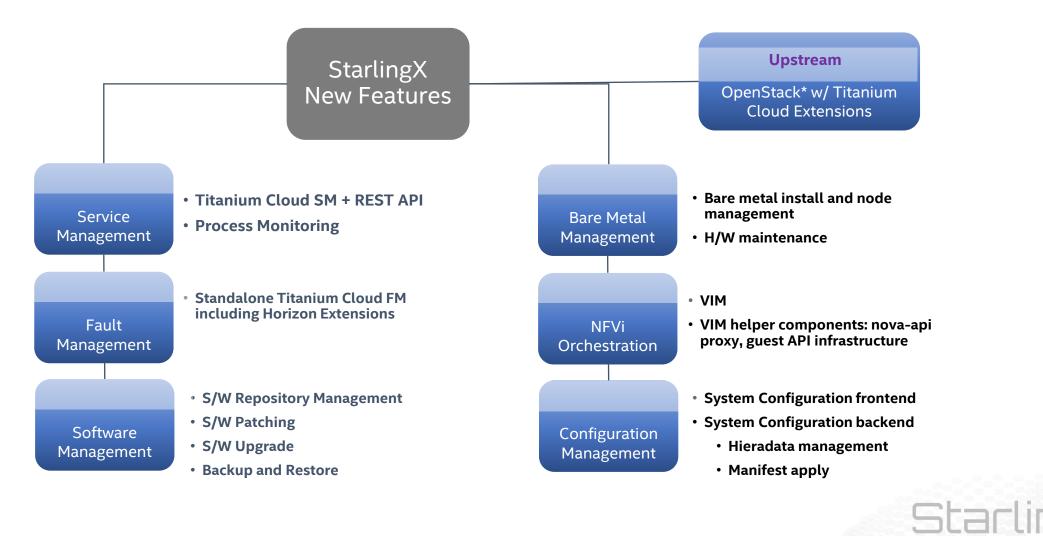
Titanium Cloud Components







WIND RIVER® TITANIUM CLOUD CONTRIBUTED PROJECTS



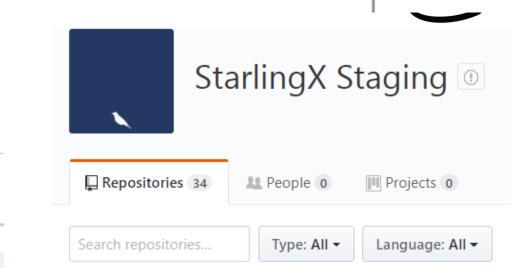


openstack. OpenStack git repository browser

a fast webinterface for the git dscm

index

Name	Description
openstack	
openstack/stx-clients	StarlingX client libraries
openstack/stx-config	StarlingX System Configuration Management
openstack/stx-fault	StarlingX Fault Management
openstack/stx-gplv2	StarlingX GPLv2 licensed upstream packaging
openstack/stx-gplv3	StarlingX GPLv3 licensed upstream packaging
openstack/stx-gui	StarlingX Horizon plugins for new StarlingX services
openstack/stx-ha	StarlingX High Availability/Process Monitoring/Service Management
openstack/stx-integ	StarlingX Integration and packaging
openstack/stx-manifest	StarlingX source manifest to manage the repositories
openstack/stx-metal	StarlingX Bare Metal and Node Management, Hardware Maintenance
openstack/stx-nfv	StarlingX NFVI Orchestration
openstack/stx-root	StarlingX build source tree root
openstack/stx-tis-repo	StarlingX build support
openstack/stx-tools	StarlingX build tools
openstack/stx-update	StarlingX Installation/Update/Patching/Backup/Restore
openstack/stx-upstream	StarlingX Upstream packaging
openstack/stx-utils	StarlingX Logging and other utilities



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stx-libvirt

StarlingX Staging stx-libvirt

C 🔹 LGPL-2.1 Updated on May 20

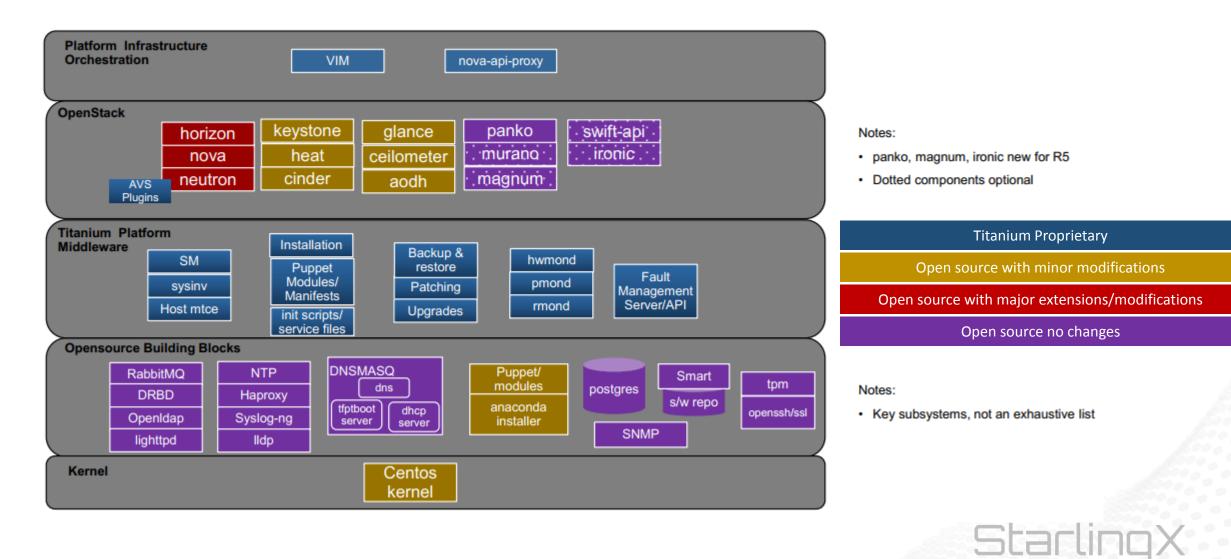
stx-kingbird

StarlingX Staging stx-kingbird

Python 1 Apache-2.0 Updated on May 20

stx-keystone

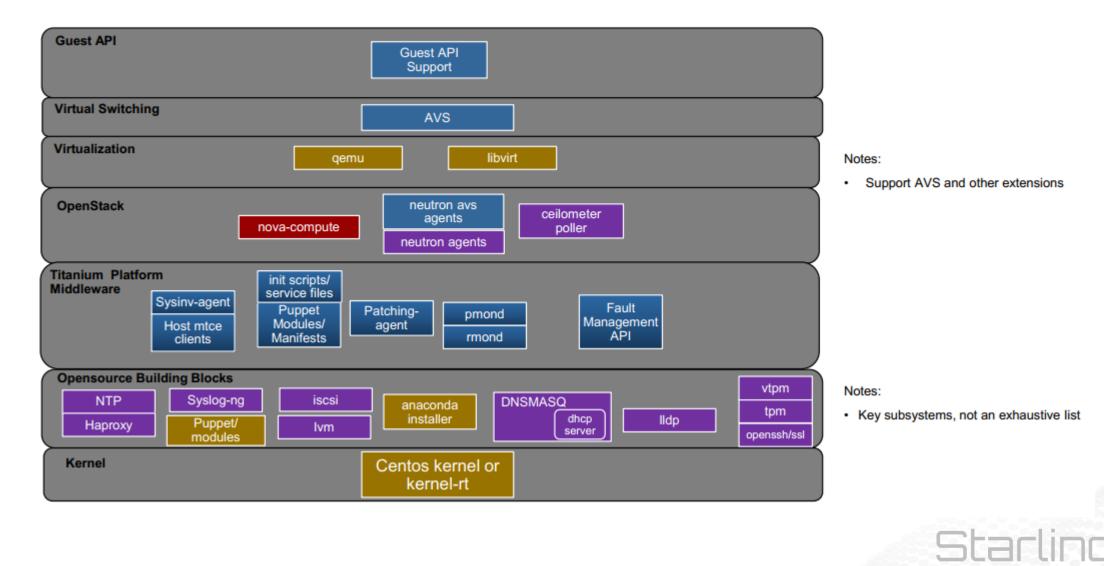
Controller Node S/W Components







Compute Node S/W Components

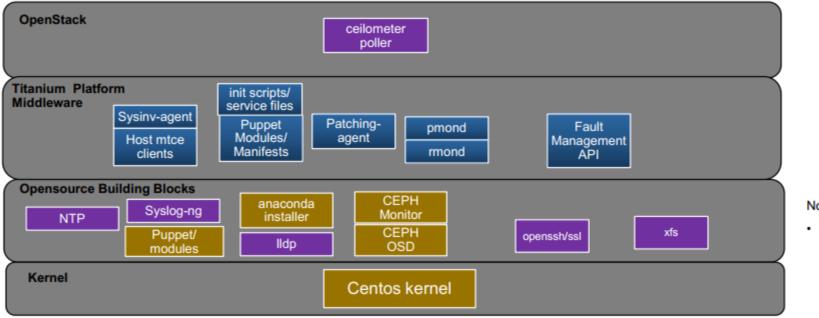


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Storage Node S/W Components



Notes:

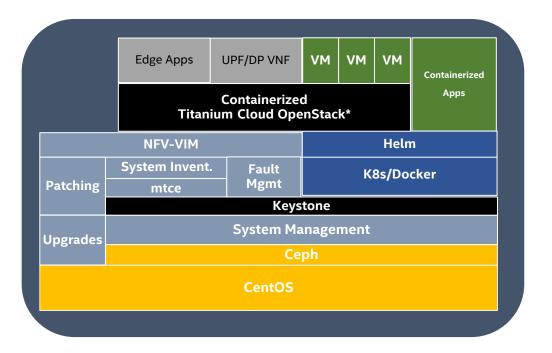
· Key subsystems, not an exhaustive list

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PROPOSED Q4'18 RELEASE ARCHITECTURE – CONTAINER SUPPORT

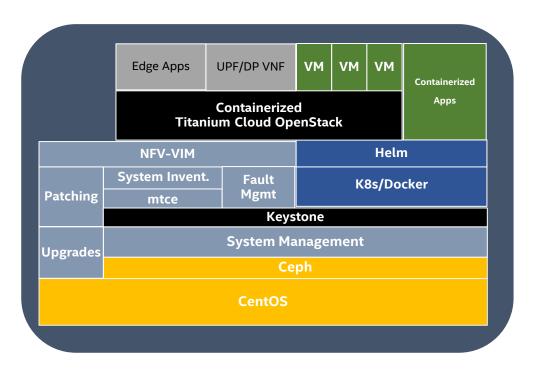


- Current open source component
- Commercial Wind River® Titanium Cloud component (open sourced in StarlingX*)
- New StarlingX component
- OpenStack* with Wind River Titanium Cloud patches
- Applications

StarlingX



COMPONENTS DESCRIPTION



- Combining OpenStack* with components from Wind River[®] Titanium Cloud with new extensions to support k8s with Docker* runtime
- Keystone runs as a shared service on the platform with Ceph for persistent storage
- Kubernetes* applications deployed by Helm
 - OpenStack is containerized
 - Calico used for container networking backend
- Retains Wind River Titanium Cloud installation mechanism for bare metal installation
- Deployment for Intel seed will use Puppet for bare metal and Helm for OpenStack and Containerized Apps
- Lifecycle for Intel seed will use existing Wind River Titanium Cloud services for bare metal and K8s for remaining

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JOIN THE COMMUNITY

Start Here!

http://www.starlingx.io/

Check us out on GitHub* and OpenStack *!

- <u>https://git.openstack.org/cgit/openstack/stx</u>
- <u>https://review.openstack.org/#/admin/projects/?filter=stx</u>
- <u>https://github.com/starlingx-staging</u>

Join the conversation!

- Mailing Lists: <u>lists.starlingx.io</u>
- Freenode IRC: #starlingx

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