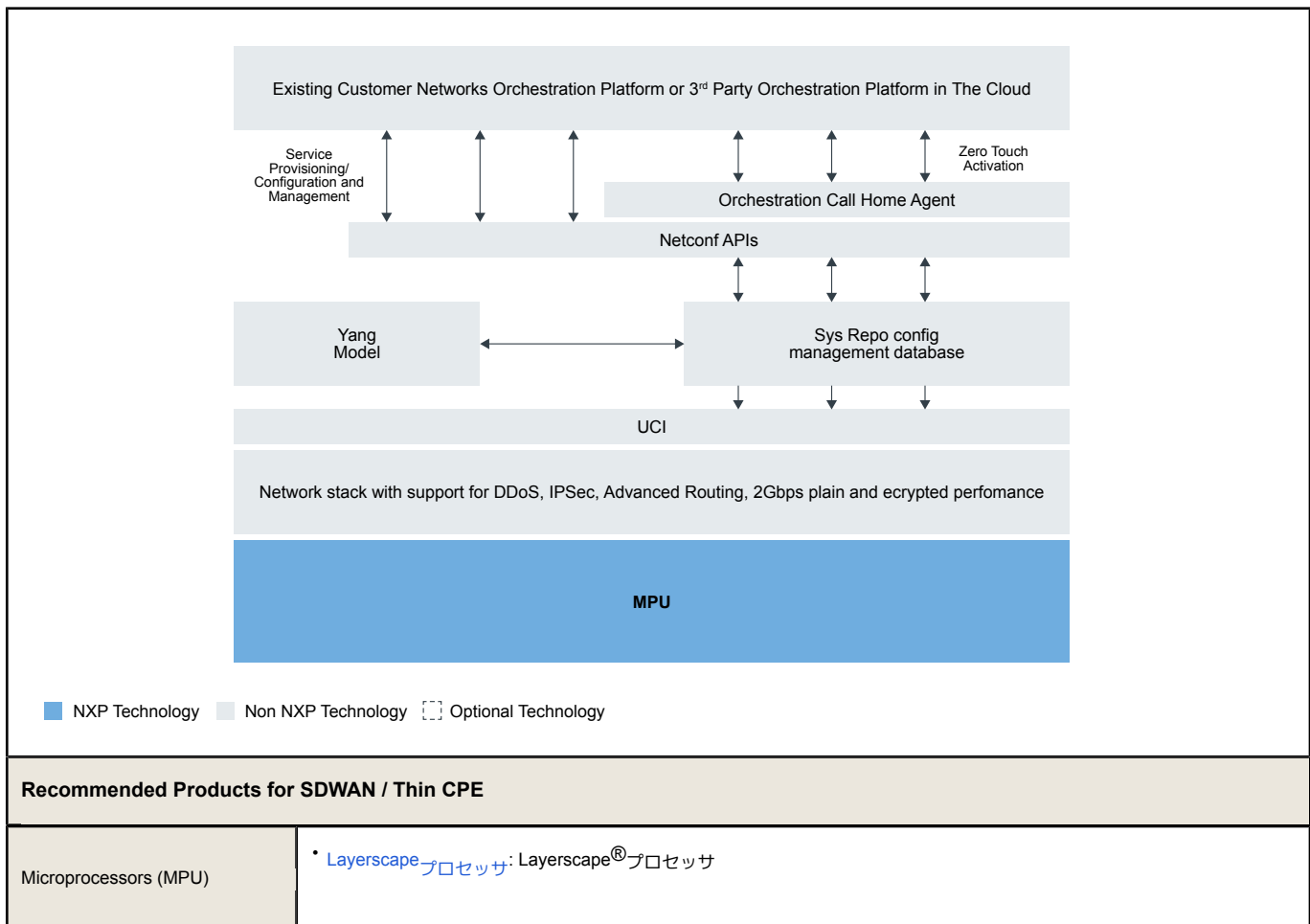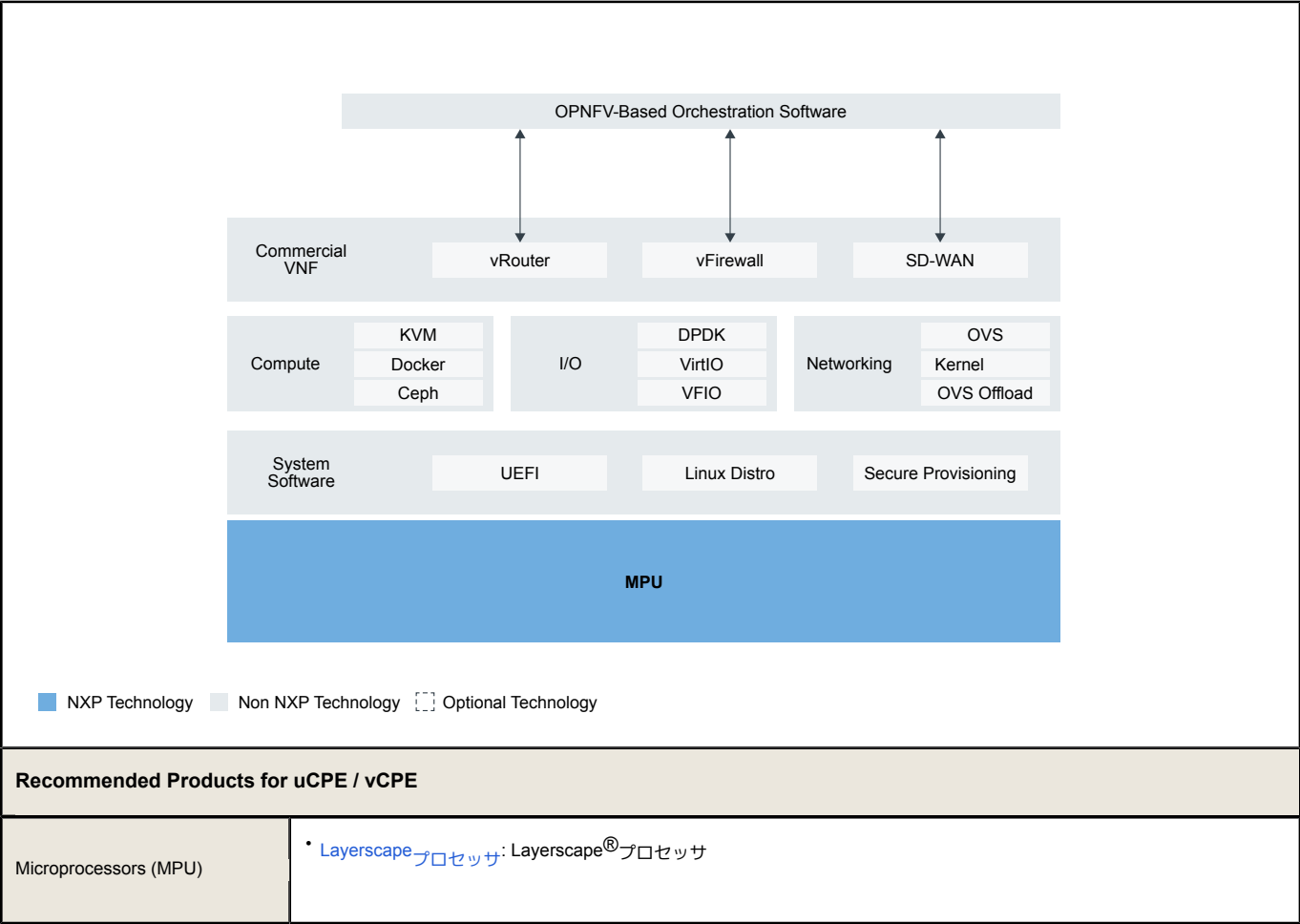# Enterprise WAN

Last Updated: Nov 12, 2021

Routers have been how companies connected sites to each other and the internet. Enterprises and the providers that service them are now employing software for routing, WAN optimization, firewall, and LAN functions, typically in a chain of virtual network functions (VNF) or containerized cloud-native network funtions (CNF) and managed via the cloud using SD-WAN software. Layerscape processors provide the standard Arm CPUs required for the virtual and universal CPE hardware (vCPE, uCPE) running this new software and the acceleration that enables differentiation.

SDWAN / Thin CPE Block Diagram

Existing Customer Networks Orchestration Platform or 3rd Party Orchestration Platform in The Cloud

Service Provisioning/ Configuration and Management

Zero Touch Activation

Orchestration Call Home Agent

Netconf APIs

Yang Model

Sys Repo config management database

UCI

Network stack with support for DDoS, IPSec, Advanced Routing, 2Gbps plain and ecrypted perfomance

MPU

■ NXP Technology   ■ Non NXP Technology   ⬚ Optional Technology

Recommended Products for SDWAN / Thin CPE	
Microprocessors (MPU)	• Layerscapeプロセッサ: Layerscape®プロセッサ

uCPE / vCPE Block Diagram

OPNFV-Based Orchestration Software	
Commercial VNF	vRouter / vFirewall / SD-WAN
Compute	KVM / Docker / Ceph
I/O	DPDK / VirtIO / VFIO
Networking	OVS / Kernel / OVS Offload
System Software	UEFI / Linux Distro / Secure Provisioning
MPU	

Legend: NXP Technology · Non NXP Technology · Optional Technology

Recommended Products for uCPE / vCPE	
Microprocessors (MPU)	• Layerscapeプロセッサ: Layerscape®プロセッサ

View our complete solution for Enterprise WAN.

Note: The information on this document is subject to change without notice.