

# Software Services

---



# Software Services



## Platform Support

- ▶ **Candidate Platform Pre-research**  
Application-oriented system resources analysis and validation
- ▶ **NCS Generic Platform SDK**  
A set of NCS drivers and utilities with the consistent developing experience, e.g., bypass driver, CPLD update utility, IDPROM, etc.
- ▶ **Linux Kernel Driver Porting**  
Control and maintain particular driver porting on the specific platform

## BIOS/U-Boot/CPLD/MCU

- ▶ **Firmware Customization**  
From request, analysis, implementation, validation until delivering
- ▶ **Feature Development**  
Dual BIOS  
Smart Fail-over Boot Management

## Validation Support

- ▶ **Driver and Tools for DQA/SE/SQA**  
Improve SW support to our validation teams for functionality test, signal measurement and burn-in purposes



## Operation System

- ▶ **Atlas (Nexcom OS) Over Net**  
Atlas extension in distributed environment, container and vNF
- ▶ **Research for ODM's 5G/Edge/uCPE/LoRa/NB-IoT Opportunity**  
Atlas embedded system porting for specific project
- ▶ **Open Project Chance**  
Standardized our model support on some popular open projects, such as OpenWrt which has  
▶ been available on some of NCS models, and other project helps POC validation

## BMC/IPMI/By-pass

- ▶ **Code Base on NCS standard BMC design**  
Unified porting on AMI solution, runBMC, standard HW design
- ▶ **OpenBMC**  
For self-owned BMC solution fully controlled by Nexcom and also support RISC platforms
- ▶ **By-pass LAN Module**  
Provide standard API and customized API

## Product Test

- ▶ **Standardized Diagnostic Modules**  
A diagnostic FW can be built for cross platform, e.g., x86 and SoC

# *ODM Software Service Support*



## *Service Coverage*

### ***General Service:***

1. Application-Oriented BIOS/CPLD/MCU/BMC Customization
2. Linux Kernel Hacking
3. RISC platforms BSP/SDK porting
4. Device Driver Development & Fine-tune
5. Hardware Diagnostic Tools
6. Production Test Programming (Collaboration with ODMs if needed)
7. Application-Oriented Networking & System Performance Optimization

### ***Advanced Service:***

In addition to providing general services, NCS Software team is further able to provide ODM customers with experienced services in the following scenario, but not limited to these scenario.

1. Refresh/Next Generation Product Project for ODM Customers
2. Pre-research Project of New Product for ODM Customers
3. POC (Proof of concept) Project for ODM Customers

Thank  
You