Software Services
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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
**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