GoldVIP provides a reference vehicle integration platform that accelerates S32G hardware evaluation, software development and rapid prototyping efforts.

It integrates NXP standard and reference software, along with open source and third-party software to provide an evaluation, development and rapid prototyping platform.

It includes a graphical user interface, real-time use cases for evaluation, real-time resource monitoring and secure cloud connectivity with partner integration that supports OTA updates, AUTOSAR™ environments, cloud services and intrusion detection and prevention (IDPS) security capabilities.
The S32G Vehicle Integration Platform (GoldVIP) Block Diagram shows the integration of various components and services. Notable components include:

- **Linux® BSP (Services, Cloud)**
- **K3s Container Orchestration Platform**
- **Argus CAN IDPS**
- **Elektrobit AUTOSAR® Adaptive Platform**
- **AWS IoT Greengrass**
- **Argus Ethernet Intrusion Detection & Prevention System (IDPS)**
- **Firmware Low Latency Communication Engine**

The diagram also highlights services such as AWS IoT FleetWise, Rapid Prototyping Environment (Python, Java), and Argus Ethernet Gateway. The diagram uses icons to depict each component and service, and the background color differentiates between NXP, Open Source, and Third-Party components.

The Automotive General Block Diagram categorizes the software and firmware components into different layers:

- **Services/Application Software**
- **Middleware**
- **OS/Drivers/Safety**
- **Hypervisor (if available)**
- **ARM Cortex Core(s)**

Each layer is represented with a different color, and the diagram includes an overview of the NXP Tools & IDE.
View additional information for S32G Vehicle Integration Platform (GoldVIP).

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