## Trusted Update Package Introduction

System Software Development Department,

InfoTech,

Connected Advanced Development Division,

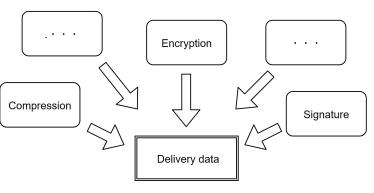
**Toyota Motor Corporation** 

Contact: Okino, Naoto (naoto.okino@toyota-tokyo.tech)

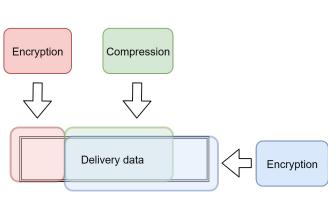
Version	Date	Description
1.0	September 22nd, 2021	Initial release version

- There are various update target system.
- Update data of multiple systems need to be contained in one package.
  - CPU Arch
  - Memory Size
  - Storage
  - $\circ$  OS
  - With or Without Hardware acceleration for some functions ( e.g. Decompression, decryption/encryption and hash )
- There are also various update target component.
  - Apps
  - System software
  - DLC (Download Contents)

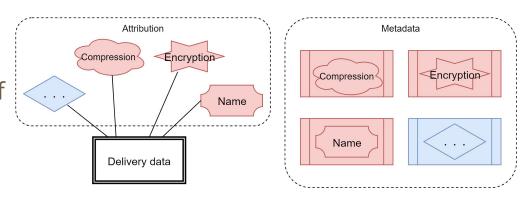
 Delivery data can be processed in various ways such as compression and encryption, depending on the target.



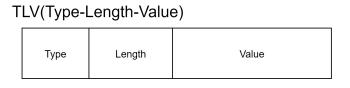
 Processes like compression and encryption can be applied not only to the whole delivery data but also to each area.



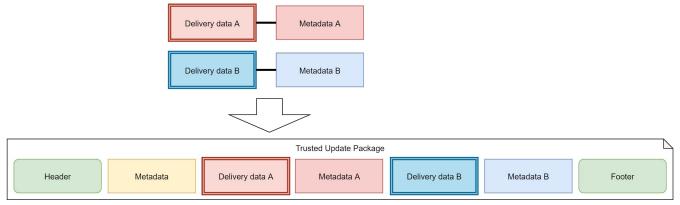
 Metadata has attribution of delivery data and TUP itself, and can represent both attribution of TUP common and vendor specific.



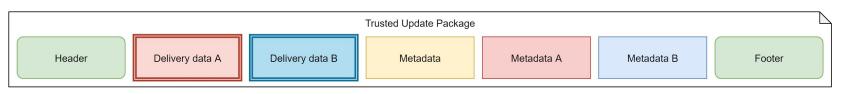
 Metadata is in TLV format that can be flexible and extensible since delivery data can have various attribution for each target.

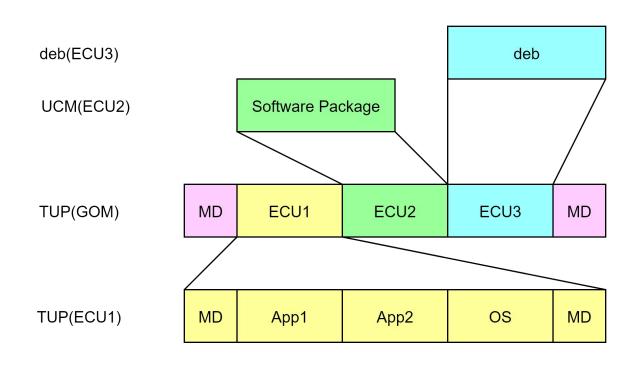


 Trusted Update Package(TUP) can contain multiple delivery data and its metadata.



These delivery data and metadata can be placed at any position inside TUP.





- TUP Design
  - Trusted Update Package Format Design
- TUP Specification
  - Trusted Update Package Format Specification