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TUS SDK 020 Demonstration

Agenda





- 1. TUS SDK 020 Updates
- 2. Demonstration

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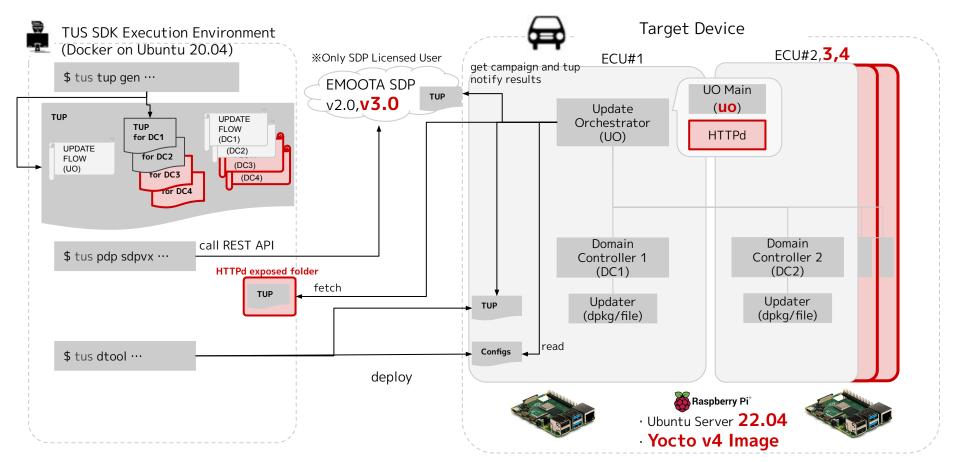


TUS SDK 020 Updates

TUS SDK 020 Supported Structure Overview







TUS SDK 020 Updates Summary





1. TUP Providers

- a. Following TUP Providers are newly supported.
 - i. EMOOTA SDP V3.0
 - ii. DevHTTPd (TUP can be found on any HTTP server.)

2. Target Device

- a. support Yocto V4 on Raspberrypi
- b. embed HTTP server into UO
- c. add DCs connection management to UO
- d. UO is changed to be a native executable from a Lua script

3. TUP Parser Library

- a. add parsing TUP file from URL
- b. add parallel processing

4. Host Tools

- a. Generator is re-implemented in Native language
- b. generate updateflows for 4 DCs at most

*About the details, please refer to the SDK 020 release note.

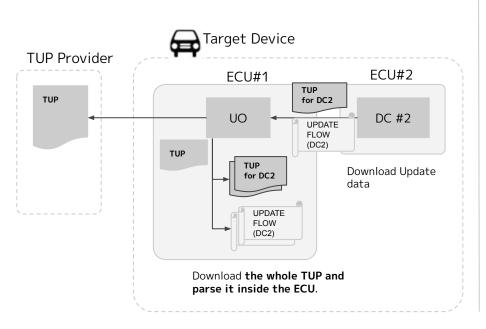
Improve TUP handling on UO



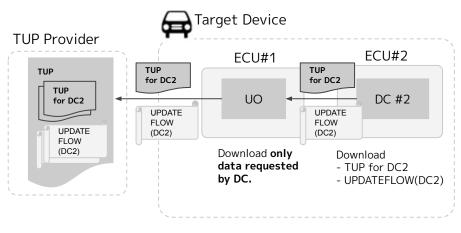


By using embedded HTTP and TUP parser's partial download, UO downloads an only necessary part of TUP as much as needed.

SDK010 TUP handling



SDK020 TUP handling



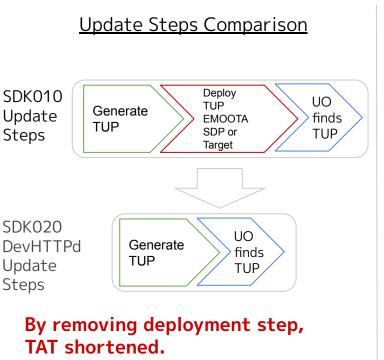
No need to download the whole TUP.

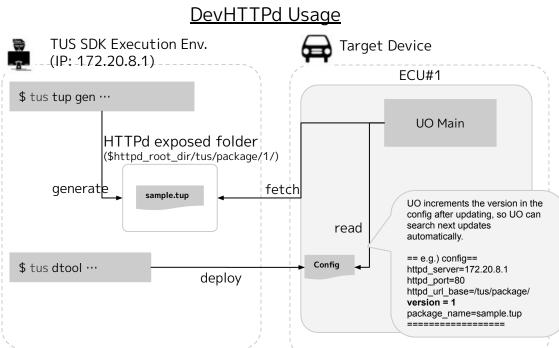
Support DevHTTPd as new TUP Provider





Without TUP deployment to Target Device or EMOOTA SDP, UO can find TUP by just placing TUP to HTTP exposed folder.





Add DCs connection management to UO

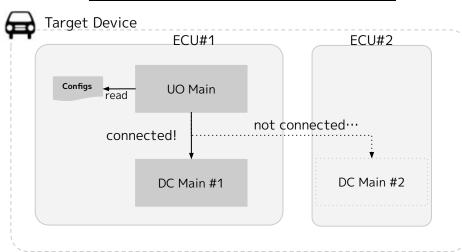




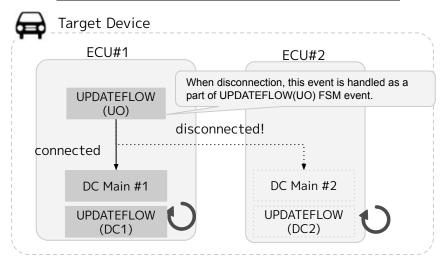
By using this functions,

- At initialization, UO can sync DCs state (e.g. consistency check).
- During the update, UO can detect disconnection from DC.

UO waits for DCs at initialization.



UO can detect disconnection from DC.



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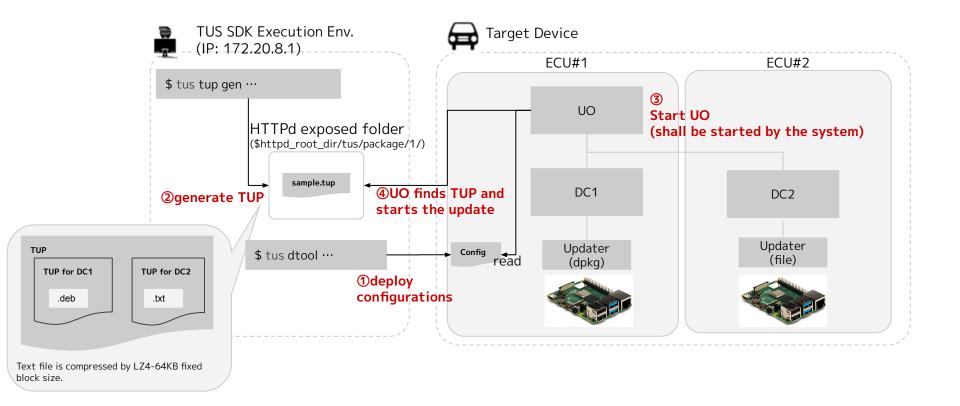
Demonstration

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Demo#1 Update by using "DevHTTPd" TUP provider







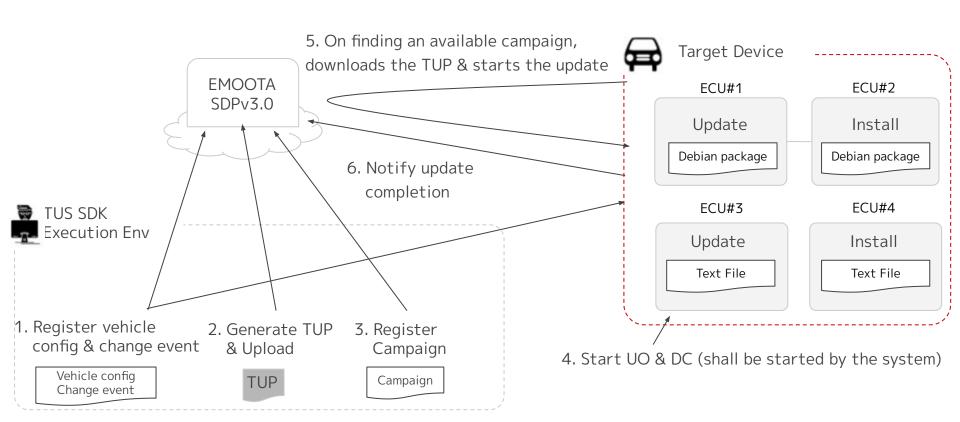
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Demo#2 Update via OTA Server (SDPv3.0)





*Needs EMOOTA SDP License





Appendix.

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