

Change Log		
Newly added	Version change	Others
<div><b>Target Platform</b> - RaspberryPi4 (QNX), - R-Car S4 Spider Board (QNX), - Qualcomm Board (AGL)</div> <div><b>Update Target</b> - device image</div> <div><b>TUS Runtime</b> [Support for simultaneous execution of multiple DCs on one OS] - Support for multiple DCs execution in parallel on the same OS environment.  [Adding vehicle-config management funciton] - Support for generation and update of vehicle configuration information for OTA.</div> <div><b>Host Tool</b> [Extension of supported algorithm] - Add support for compression and signing algorithm other than LZ4/HMAC SHA256.</div> <div><b>[SDK0.4.0 future item]</b> <b>TUS Runtime</b> [Abolishment of use of Obeya SDK inside the TUS runtime] - Replace Obeya SDK with TUS SDK implementation. (This starts partially from 0.3.0.)</div>	<div><b>TUS Runtime</b> [Support for Delta Update] - Adding function to apply difference. : moved to 0.3.0 from 0.5.0  [Support for update functions that has dependencies such as OS] - Support for image update : moved to 0.3.0 from 0.4.0  <b>Host Tool</b> [Support for image update] - Adding TUP generation function containing image as Update Target. : moved to 0.3.0 from 0.4.0  [Support for Delta Update] - Diffential data generation to apply and TUP generation function containing it. : moved to 0.3.0 from 0.5.0  [Adding metadata information to generated TUP] - Support for functions to add metadata such as unique information of each TUP Provider to already generated TUP. : moved to 0.4.0 from 0.3.0  <b>General</b> [Support for telemetry system] - Support for log collection system (telemetry) for development phase. : moved to 0.4.0 from 0.3.0  [Introduction of Error Code system] - Introduction of Error Code system for the whole TUS SDK. : partially moved to 0.4.0 from 0.3.0</div>	<div><b>Number of Target Devices</b> Described as "maximum number is four". (changed from "Discussion with ECU teams is needed.")</div> <div><b>TUP Providers</b> EMOOTa SDP v2.0 : End of support</div> <div><b>Fix typo</b> Fix version of RaspberryPi4 (Ubuntu20.04 -&gt; Ubuntu 22.04)</div>

SDK Version	Release Schedule	Target Environment		Update Target	Functions			TUP Providers		General
		Target Platform	Number of Target Devices		TUS Runtime	TUP Parser Library	Host Tool	EMOOTA SDP	Others (Provided by SDK)	
0.4.0	2023/01/8	Discussion with ECU teams is needed.	Discussion with ECU teams is needed.	Discussion with ECU teams is needed.	<div>[Adding recovery mechanism when update] - Adding roll-back process when error. - Support for update status carry on after reboot and recovery from abnormal termination.</div> <div>[Support for update functions that has dependencies such as OS] - Support for bank switching as write destination when update is executed. (This depends on ECU development team.)</div> <div>[Support new TUP Providers] - Add EMOOTA SDPv4 as new TUP Provider. (This depends on EMOOTA release schedule.)</div> <div>[Abolishment of use of Obeya SDK inside the TUS runtime] - Replace Obeya SDK with TUS SDK implementation. (This starts partially from 0.3.0.)</div>	<div>[Extend processable TUP] - Adding decompression process (whole at once). - Adding decryption process. - Adding control function of processing order of decryption, decompression and signing.</div>	<div>[Support for EMOOTA SDPv4] - Adding Operator for EMOOTA SDPv4. (This depends on EMOOTA reelease schedule.)</div> <div>[Support for SILS] - Adding SILS environment to emulate multiple ECUs.</div> <div>[Extension of TUP generation] - Adding TUP compression function (whole at once). - Adding TUP encryption function. - Adding control function of processing order of TUP encryption, compression and signing.</div> <div>[Adding metadata information to generated TUP] - Support for functions to add metadata such as unique information of each TUP Provider to already generated TUP.</div>	v3.0, v4.0	Local File System, DevHTTpd	<div>[Support for telemetry system] - Support for log collection system (telemetry) for development phase.</div> <div>[Fix metadata of TUP] - Fix TUP structure for distribution and Domain unique metadata included in it. (This depends on ECU development team.)</div> <div>[Introduction of Error Code system] - Implementation of Error Code system for the whole TUS SDK.</div>
0.5.0	2023/04/8	Discussion with ECU teams is needed.	Discussion with ECU teams is needed.	Discussion with ECU teams is needed.	<div>[Optimizaton of communication between UO and DC] - Optimization such as using IPC when UO and DC exist on the same OS instance.</div>			v3.0, v4.0	Local File System, DevHTTpd	<div>[Support for telemetry system] - Support for log collection system (telemetry) for production phase.</div>
TODO						- Adding decompression process (variable length) (if there is a request)	- Adding compression function when generating TUP (variable length). (if there is a request)			

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0.4.0	2023/01/B	Discussion with ECU teams is needed.	Discussion with ECU teams is needed.	Discussion with ECU teams is needed.	<div>[Adding recovery mechanism when update] - Adding roll-back process when error. - Support for update status carry on after reboot and recovery from abnormal termination.</div> <div>[Support for update functions that has dependencies such as OS] <del>-Support-for-image-update</del> : released in 0.3.0 - Support for bank switching as write destination when update is executed. (This depends on ECU development team.)</div> <div>[Support new TUP Providers] - Add EMOOTA SDPv4 as new TUP Provider. (This depends on EMOOTA reelease schedule.)</div> <div>[Abolishment of use of Obeya SDK inside the TUS runtime] - Replace Obeya SDK with TUS SDK implementation. (This starts partially from 0.3.0.) : New</div>	<div>[Extend processable TUP] - Adding decompression process (whole at once). - Adding decryption process. - Adding control function of processing order of decryption, decompression and signing.</div>	<div>[Support for EMOOTA SDPv4] - Adding Operator for EMOOTA SDPv4. (This depends on EMOOTA reelease schedule.)</div> <div>[Support for SILS] - Adding SILS environment to emulate multiple ECUs.</div> <div>[Extension of TUP generation] - Adding TUP compression function (whole at once). - Adding TUP encryption function. - Adding control function of processing order of TUP encryption, compression and signing.</div> <div>[Adding metadata information to generated TUP] - Support for functions to add metadata such as unique information of each TUP Provider to already generated TUP. : moved from 0.3.0</div>	v3.0, v4.0	Local File System, DevHTTpd	<div>[Support for telemetry system] - Support for log collection system (telemetry) for development phase. : moved from 0.3.0</div> <div>[Introduction of Error Code system] - Implementation of Error Code system for the whole TUS SDK. : partially moved from 0.3.0</div> <div>[Fix metadata of TUP] - Fix TUP structure for distribution and Domain unique metadata included in it. (This depends on ECU development team.)</div>
0.5.0	2023/04/B	Discussion with ECU teams is needed.	Discussion with ECU teams is needed.	Discussion with ECU teams is needed.	<div><del>[Support-for-Delta-Update]</del> <del>-Adding-function-to-apply-difference</del> : released in 0.3.0</div> <div>[Optimization of communication between UO and DC] - Optimization such as using IPC when UO and DC exist on the same OS instance.</div>		<div><del>[Support-for-Delta-Update]</del> <del>-Differential-data-generation-to-apply-and-TUP-generation-function-containing-it</del> : released in 0.3.0</div>	v3.0, v4.0	Local File System, DevHTTpd	<div>[Support for telemetry system] - Support for log collection system (telemetry) for production phase.</div>
TODO					- Adding decompression process (variable length) (if there is a request)		- Adding compression function when generating TUP (variable length) , (if there is a request)			