



# Sonatus Updater

## Comprehensive and secure management of automotive OTA updates

Securely manage all vehicle software updates with predictability and end-to-end traceability.



## Unified solution for all types of vehicle software updates.

Sonatus Updater allows automotive OEMs to successfully manage automotive OTA updates (over the air updates) of any vehicle software and configurations, with cloud-based simulated dry runs and complete transparency for rapid debugging.



### Manage all vehicle software OTA updates from a single pane of glass

Enables automotive manufacturers to securely update firmware, containers, variant coding, configuration changes, and policies over the air from a single pane-of glass.



### Ensure predictable results with simulated dry-runs of OTA updates

Conduct dry runs to predict data size and campaign cost and resolve conflicts to ensure success of the update process.



### Achieve end-to-end traceability of automotive OTA campaigns

Trace campaigns with granular visibility down to each step in the update to aid troubleshooting.

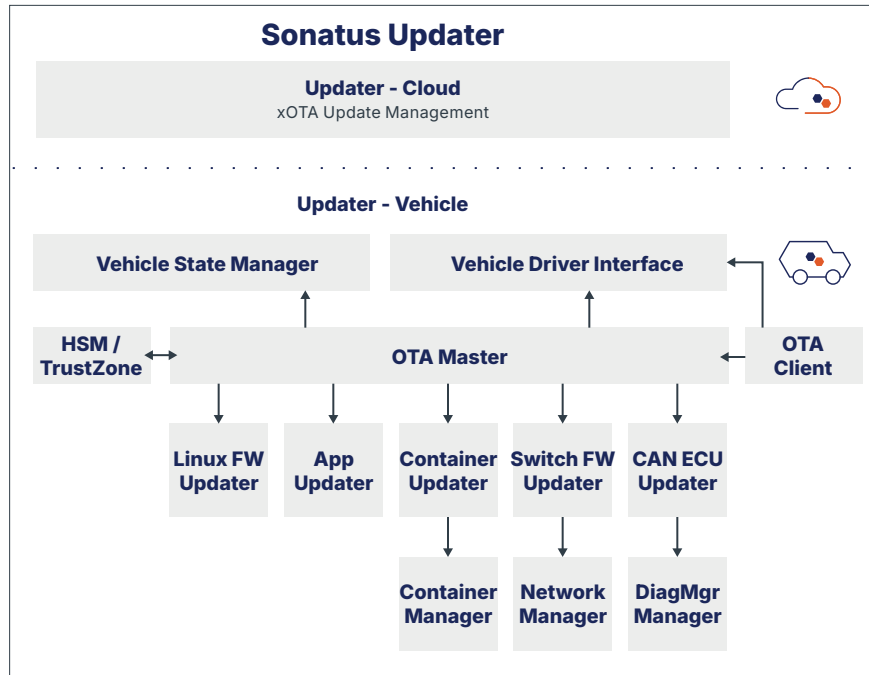


### Reduce OTA update sizes automatically to reduce costs

Automatically apply delta update algorithms to minimize update sizes by up to 95 percent saving time and OTA transmission costs.

# Sonatus Updater features

Foundational building blocks to help accelerate the transition to a software defined vehicle architecture.



## xOTA Updates

Supports updates for all types of software assets including firmware, containers, as well as configuration data.

- For classic, domain, zonal, and high performance ECUs
- Large and complex firmware updates
- Lighter weight variant coding, container, network and application policies

## Intelligent Delta Updates

Automatic selection of algorithms to produce the smallest delta updates, reducing software package sizes by up to 95%, saving time and OTA transmission costs.

- Multiple delta generation algorithms
- Algorithms tailored to multiple software asset types
- Intelligent selection of optimal algorithm based software asset type

## Secure

Meets and exceeds automotive cybersecurity guidelines for connected updates.

- UNECE Cybersecurity Regulation: R155/R156
- Uptane framework for software updates
- Role Based Access Control and strict approval workflows

## End-to-End Traceability

Trace campaigns from the cloud to individual ECUs with granular visibility at each step.

- Failure root cause analysis
- Correlation of scattered data points (logs, signals, etc.)
- Context stitching based on campaign

## Predictive

Conduct dry runs in the cloud to determine scope. Reduce costs and measure of success for each campaign.

- Cost estimation
- Dependency validation
- Target vehicle estimation

## Partners



## Standards Supported

