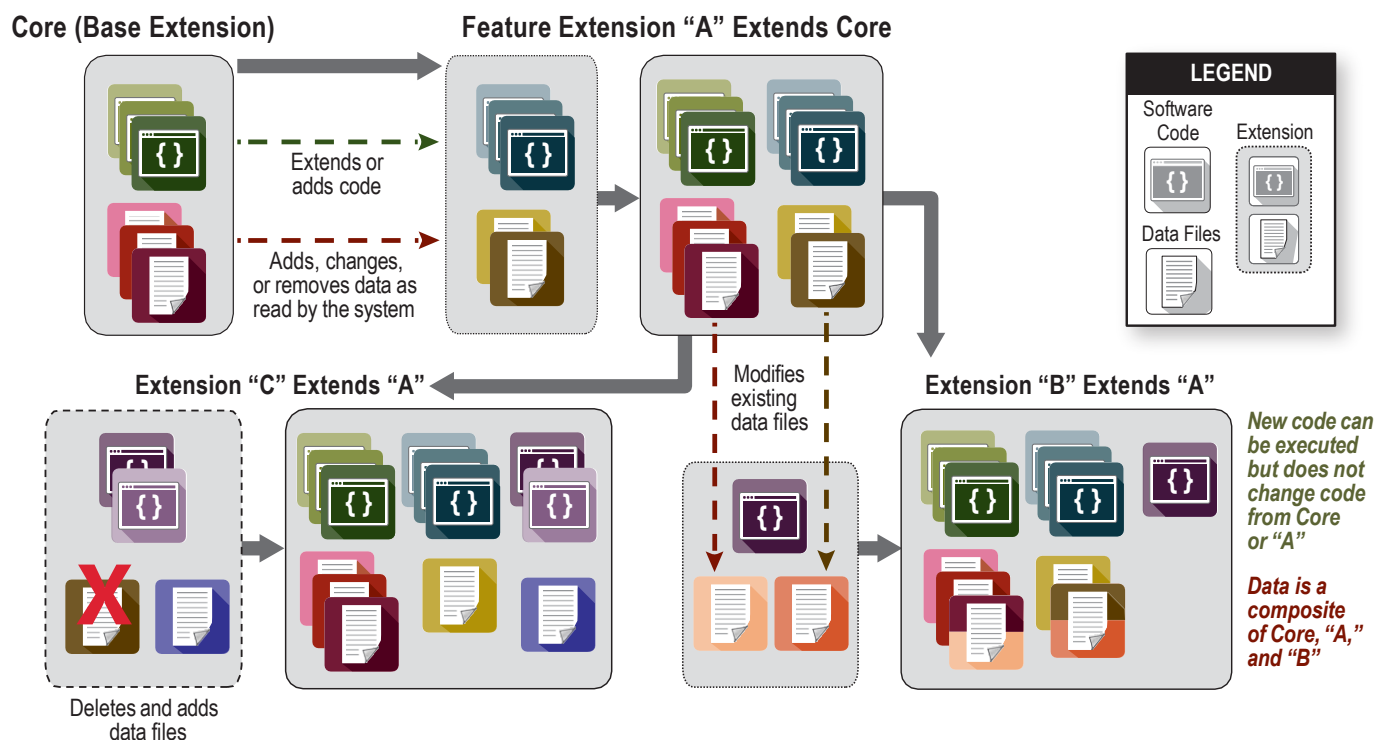# Data & Extension Services

OneSAF supports runtime selection of data/code extensions to provide rapid baseline customization and controlled modularity.
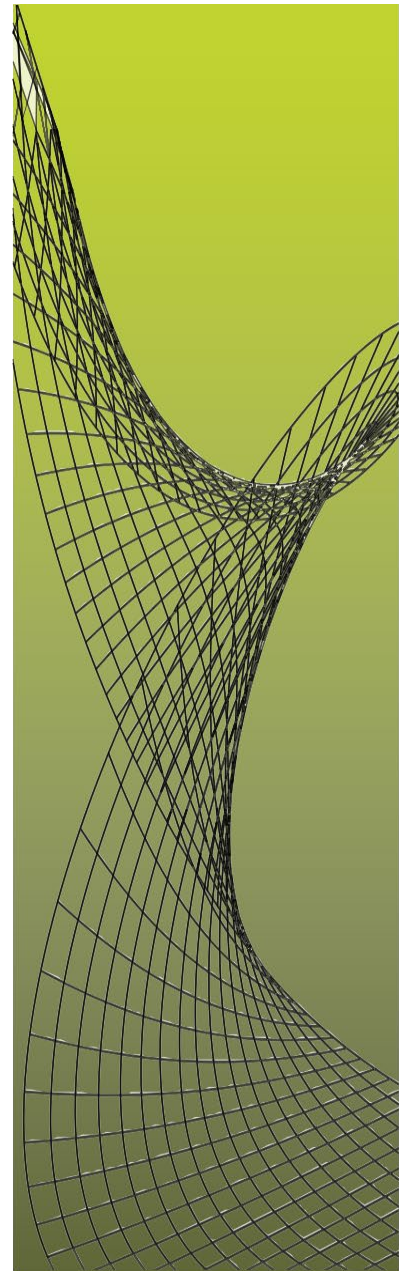
System Maintenance and Development

► Extensions isolate data, code, and dependencies into discrete components that are imported into running compositions

► New extensions can be created without needing to test compatibility with all other extensions

► Extensions include dependencies for other extensions to reuse data and code to automatically load dependencies at runtime

► "Core" data and code are implicit dependencies available to any extension at runtime

Core (Base Extension)

Feature Extension "A" Extends Core

Extends or adds code

Adds, changes, or removes data as read by the system

LEGEND

Software Code | Extension

Data Files

Extension "C" Extends "A"

Modifies existing data files

Extension "B" Extends "A"

New code can be executed but does not change code from Core or "A"

Data is a composite of Core, "A," and "B"

Deletes and adds data files

► Data and code from "B" automatically import data and code from "A"; any combinations can be selected at runtime

► Data and code from "C" can be independently developed and tested from "B," reducing the testing complexity for "C"

Feature Customization

► Applications building on OneSAF can use Data and Extension Services to import only the extensions they need for their application and nothing else

► Applications can develop override extensions to add, replace, or delete (make unavailable) any data or code to meet application requirements

► Only testing required for new applications is based on the specific extensions that the application requires for operation

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