**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**

**Extension “C” Extends “A”**

**Extension “B” Extends “A”**

- 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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