

Presentation AL Modules (Development Objects) in Business Central

[Christiaan Versfeld](#)

[Tiffany Elias](#)

1. Setup

In Business Central, the setup refers to the configuration of your environment, tables, and system components. It is where initial and ongoing configurations are defined, ensuring the system meets specific business needs. This setup process is essential for developers to define the structure and operation of the system.

2. Extension Management

Extension Management in Business Central is responsible for managing the lifecycle of extensions in the environment. Extensions are custom functionalities that can be created, installed, or updated to extend Business Central's capabilities.

3. Table Module

- **Purpose:** Represents the data structure within Business Central.
 - **Example:** Defines the fields, primary keys, and relationships between tables.
 - **Example:** table 50100 "Customer"
-

4. Page Module

- **Purpose:** Defines the user interface for data entry, display, and interaction.
 - **Key Features:**
 - Page types include List, Card, Document, and Worksheet Pages.
 - Customizes the way information is presented to the user.
 - **Example:** page 50100 "Customer List"
-

5. Codeunit Module

- **Purpose:** Contains business logic, procedures, and functions to process tasks.
 - **Key Features:**
 - Can be called from other objects like pages or reports.
 - Allows developers to write reusable functions and processes.
 - Example: codeunit 50100 "Customer Handler"
-

6. Report Module

- **Purpose:** Used for creating printable reports and documents.
 - **Key Features:**
 - Generates formatted reports (e.g., invoices, purchase orders, financial reports).
 - Supports integration with Word/Excel templates.
 - Example: report 50100 "Sales Invoice"
-

7. Query Module

- **Purpose:** Allows the creation of complex queries for extracting and aggregating data from multiple tables.
 - **Key Features:**
 - Useful for analytics and reporting.
 - Enables filtering and sorting of data for reports.
 - Example: query 50100 "Customer Orders"
-

8. XMLPort Module

- **Purpose:** Defines XML-based data import and export functionality.
- **Key Features:**

- Used for exchanging data between Business Central and other systems (e.g., ERP systems, financial institutions).
 - Example: xmlport 50100 "Customer Import"
-

9. Enum Module

- **Purpose:** Used to define a set of values for fields or variables.
 - **Key Features:**
 - Facilitates the use of restricted, predefined values for specific fields.
 - Example: enum 50100 "Payment Status"
-

10. Action Module

- **Purpose:** Defines actions (buttons or menu items) on pages that trigger specific logic.
 - **Key Features:**
 - Actions are executed when users interact with them on pages.
 - Example: pageextension 50100 "Customer List Extension"
-

11. Event Publisher and Event Subscriber

- **Event Publisher:** Used to publish events that other objects can subscribe to.
 - **Event Subscriber:** Listens for events and executes specific logic when triggered.
 - **Key Features:**
 - Enables a decoupled design where various parts of the system can react to certain events without directly affecting each other.
 - Example:
 - eventpublisher 50100 "OnCustomerCreated"
 - eventssubscriber 50101 "OnCustomerCreatedSubscriber"
-

12. TableExtension Module

- **Purpose:** Extends existing tables to add fields or modify their structure.
 - **Key Features:**
 - Adds custom fields to existing system tables without altering the original table structure.
 - Example: tableextension 50100 "Customer Extension"
-

13. PageExtension Module

- **Purpose:** Extends existing pages to modify layouts, add fields, or change the user interface.
 - **Key Features:**
 - Customizes standard pages to meet business needs.
 - Example: pageextension 50100 "Customer Card Extension"
-

14. Web Service (SOAP/OData) Module

- **Purpose:** Exposes Business Central data via SOAP or OData protocols for integration with external systems.
 - **Key Features:**
 - Enables Business Central to communicate with external applications, e-commerce platforms, or partner systems.
 - Example: codeunit 50100 "Customer Web Service"
-

15. Test Codeunit Module

- **Purpose:** Used for writing and running unit tests to ensure the integrity of custom logic and functionality.
- **Key Features:**
 - Ensures that customizations are working as expected.

- **Example: codeunit 50100 "Customer Test Codeunit"**
-

16. Permission Set Module

- **Purpose: Defines access rights to objects in Business Central.**
 - **Key Features:**
 - **Allows the management of user roles and permissions for accessing specific functionalities.**
 - **Example: permissionset 50100 "Custom Permission"**
-

17. AL Language Extensions (Libraries/Packages) BOTH

- **Purpose: Reusable libraries or packages that offer core functionality, permissions, and other standard tasks.**
 - **Key Features:**
 - **Includes pre-built functions and libraries for common operations.**
 - **Example: Application Base, Permissions, Standard Libraries.**
-

18. Final Code Both

Conclusion

By understanding both the Setup and Extension Management processes, as well as the AL modules available in Business Central, developers can efficiently customize and extend Business Central to meet the specific needs of businesses. These AL modules allow for deep customization of functionality, user interface, data structure, integration, and more, enabling the platform to be adapted to a wide range of business requirements.