FxaAdditionsExclusionController.cs

This controller manages additions and exclusions on fixed assets. It provides endpoints to search, create, edit, and delete addition/exclusion records, and to populate dropdowns.

Dependencies:

- $\bullet \quad \hbox{IFxaServiceManager.FxaAdditionsExclusionService}$
- IAccServiceManager.AccFacilityService
- IPermissionHelper
- ICurrentData
- ILocalizationService
- IApiDDLHelper
- IWebHostEnvironment

□ Endpoints

Route	Method	Description
/Search	POST	Search additions/exclusions
/Add	POST	Create a new addition/exclusion
/DDLFxaAddExcType	GET	Load addition/exclusion type dropdown list
/GetByIdForEdit	GET	Retrieve a record for editing
/Edit	POST	Update an existing record
/Delete	DELETE	Delete a record

□ Search

Performs filtered search on non-deleted records belonging to the current facility.

- Route: POST /Search
- Input DTO: FxaAdditionsExclusionFilterDto
- · Key Logic:
 - Permission check (1986, Show)
 - Default null numeric filters to 0
 - Date range filter using yyyy/MM/dd
 - Map VW entity to filter DTO



□ Add

Creates a new addition/exclusion record and generates a ZATCA QR code if successful.

- Route: POST /Add
- Input DTO: FxaAdditionsExclusionDto
- · Key Logic:
 - Permission check (1986, Add)
 - Model-state validation
 - Call service Add(obj)
 - · On success, fetch facility data and generate QR code

□ DDLFxaAddExcType

Loads a dropdown of addition/exclusion types by TypeId.

- Route: GET /DDLFxaAddExcType?TypeId={TypeId}
- Returns: SelectList of FxaAdditionsExclusionTypeDto

■ GetByldForEdit

Fetches a record's details for editing, including related journal info.

- Route: GET /GetByIdForEdit?id={id}
- · Key Logic:
 - Permission check (1986 , Edit)
 - Validate id > 0
 - · Fetch VW record
 - Map to FxaAdditionsExclusionEditDto
 - Fetch related AccJournalMaster and set JId , JCode , PeriodId

□ Edit

Updates an existing addition/exclusion and regenerates the ZATCA QR.

- Route: POST /Edit
- Input DTO: FxaAdditionsExclusionEditDto
- Key Logic:
 - Permission check (1986, Edit)
 - Model-state validation
 - Call service Update(obj)
 - On success, regenerate QR code

□ Delete

Soft-deletes a record by id.

• Route: DELETE /Delete?id={id}

- Key Logic:Permission check (1986 , Delete)
 - Validate id > 0
 - Call service Remove(id)

FxaFixedAssetTypeController.cs

Manages **fixed asset types**, enabling CRUD operations and hierarchical relationships.

Dependencies:

- $\bullet \quad \hbox{IFxaServiceManager.FxaFixedAssetTypeService}\\$
- IPermissionHelper
- ICurrentData
- ILocalizationService

□ Endpoints

Route	Method	Description
/GetAll	GET	Retrieve all asset types
/Search	POST	Filter asset types
/Add	POST	Create a new asset type
/GetByIdForEdit	GET	Fetch type for editing
/Edit	POST	Update an existing type
/Delete	DELETE	Remove a type

□ Class Overview

• FxaFixedAssetTypeVm: ViewModel

FxaFixedAssetTypeDto: DTO for creation

• FxaFixedAssetTypeEditDto: DTO for editing

□ GetAll

Returns all non-deleted types for the current facility, populating MainAssetName for child types.

```
1 [HttpGet("GetAll")]
2 public async Task<ActionResult> GetAll()
3 {
4    // permission(901, Show)
5    var items = await fxaServiceManager.FxaFixedAssetTypeService.GetAllVW(
6    t => !t.IsDeleted && t.FacilityId == session.FacilityId);
7
```

<pre>8 // map to FxaFixedAssetTypeVm, fetch parent name if ParentId != 0 9 }</pre>				
□ Search				
Filters by code, name, parent, rates, a	ge, and account code	es.		
 Input DTO: FxaFixedAssetTypeFill Logic: Default null fields to 0 Build predicate for all filter field Map to FxaFixedAssetTypeVm Add / Edit / Delete 				
Standard CRUD flows with permission FxaFixedAssetTrai		oller.cs		
Handles asset transfers between bra	nches, facilities, and	employees.		
Dependencies:				
 IFxaServiceManager.FxaFixedAsse IMainServiceManager.InvestEmple IAccServiceManager IPermissionHelper ICurrentData ILocalizationService Endpoints				
Route	Method	Description		
/Search	POST	Search transfer records		
/Delete	DELETE	Remove a transfer		
/GetAssetByNo	GET	Lookup asset data by number		
/Add	POST	Create a new transfer		
/GetByldForEdit	GET	Fetch transfer details for editing		
/Edit	POST	Update an existing transfer		
/GetAssetsByEmpCode	GET	List assets owned by an employee		

. 5 5 5 1.55 / 25.555 1.55
Filter: Code, name, from/to locations, employees, date range
Mapping: Map VW to FxaFixedAssetTransferSearchVM
□ GetAssetByNo
Lookup an active asset by its No and optionally override facilityId.
• Returns: FixedAssetDataForTransferVm with branch, facility, cost center, employee, location.
□ Add / 🛮 Edit
• DTOs: FxaFixedAssetTransferDto , FxaFixedAssetTransferEditDto
• Flow: Permission → Validate → Service call
Add2
Special and point for transferring multiple access between ampleyees
Special endpoint for transferring multiple assets between employees.
• DTO: FxaFixedAssetTransferDto2
Use case: Bulk transfer in a single transaction
• Ose case. Bulk transfer in a single transaction
EvaDonragiation Controllor of
FxaDepreciationController.cs
Calculates and records asset depreciation.
Dependencies:
IFxaServiceManager.FxaTransactionService
• IPermissionHelper
• ICurrentData

Description

List depreciation transactions (TransTypeId = 5)

Get date of last depreciation run

Method

POST

GET

Description

Transfer multiple assets from one employee to another

Method

POST

Route

/Add2

□ Search & Delete

• ILocalizationService

/GetLastDeprecDate

IMapper

□ Endpoints

Route

/Search

• **Permission:** Show=799 , Delete=799

Route	Method	Description
/GetAssetForDeprec	POST	Compute depreciation for assets up to a given end date
/Add	POST	Record depreciation (transaction + asset entries)
/GetByIdForEdit	GET	Fetch depreciation record for editing
/Delete	DELETE	Remove a depreciation transaction

□ Search

- Filters by code and date range
- Maps to FxaDepreciationFilterVM

☐ Asset Calculation

GetAssetForDeprec acts like a stored-procedure, gathering:

- Balance from credit/debit sums
- LastDeprecDate from previous records or asset start
- InstallmentValue by method
- Month/day counts to compute DeprecValue & DeprecValueDialy

\square Add

Delegates to FxaTransactionService.Add_Depreciation(obj).

FxaPurchaseController.cs

Manages asset purchase records (TransTypeId = 2).

Dependencies:

- IFxaServiceManager.FxaTransactionService
- IAccServiceManager
- IPermissionHelper
- ICurrentData
- ILocalizationService
- ISysConfigurationHelper

Route	Method	Description
/Search	POST	Filter purchase records

/Delete	DELETE	Delete a purchase record
□ Search		

Description

- Filters by code range, payment terms, branch, supplier, reference
- Date range filter

Route

• Optional filter by FxCode to show only records containing a specific asset

Method

FxaFixedAssetController.cs

Core controller for fixed asset CRUD, search, and detailed edit view.

Dependencies:

- IFxaServiceManager.FxaFixedAssetService
- IAccServiceManager
- IPermissionHelper
- ICurrentData
- ILocalizationService
- $\bullet \quad {\tt ISysConfigurationHelper}$

Route	Method	Description
/Search	POST	Search assets
/GetProperties	GET	Load asset-form properties (CC visibility)
/GetAssetTypeData	GET	Fetch type details for new asset entry
/Add	POST	Create a new asset
/GetByldForEdit	GET	Fetch asset for view/edit
/FillGridViewsInEdit	GET	Populate grids: transactions, transfers, additions
/Edit	POST	Update asset
/Delete	DELETE	Remove an asset
□ Search		

- Highly configurable filters: code, name, location, branch, status, classification, employee, addition type, date
- Hierarchical type filtering via FxaFixedAssetTypeId_DF

GetProperties

Fetches system config flags for cost-center fields visibility and titles.

☐ FillGridViewsInEdit

Aggregates multiple data sources for the edit screen:

- 1. **Transactions** (FxaTransactionsAssetVw)
- 2. Related fixed assets
- 3. Transfers
- 4. Additions/Exclusions

FxaBarCodeController.cs

Generates barcodes and QR codes for fixed assets.

Dependencies:

- IFxaServiceManager.FxaFixedAssetService
- IAccServiceManager
- IPermissionHelper
- ICurrentData
- IWebHostEnvironment

□ Endpoints

Route	Method	Description
/Search	POST	Filter assets for barcode generation
/GetBarCodes	GET	Generate and return bar/QR codes URLs

☐ Search

Filters assets similarly to the main asset search, returning minimal viewmodels.

GetBarCodes

- · Accepts comma-separated assetsIds
- Fetches facility logo + generates facility QR
- · Loops assets and generates EAN-style barcode URL

BaseFxaApiController.cs

Abstract base class applying the route prefix:

- 1 [Route("api/{ApiConfig.ApiVersion}/FXA/[controller]")]
- 2 [ApiController]
- 3 public abstract class BaseFxaApiController : ControllerBase { }

All FXA controllers inherit this for consistent routing and CORS.

FxaReportsController.cs

Provides reporting endpoints covering purchase, sale, depreciation, and category reports.

Dependencies:

- IFxaServiceManager.FxaFixedAssetService
- IFxaServiceManager.FxaTransactionService
- IAccServiceManager
- IPermissionHelper
- ICurrentData
- ILocalizationService
- IApiDDLHelper

Route	Method	Description
/GetPurchaseAssetReport	POST	Report of purchased assets
/GetSaleAssetReport	POST	Report of sold assets
/GetDepreciationReport	POST	Asset depreciation report
/GetDepreciationReport3	POST	Depreciation by hierarchy level
/GetDepreciationReport2	POST	Alternate depreciation report
/GetDepreciationReportByCategory	POST	Depreciation aggregated by category
/DDLAssetType2	GET	Dropdown level-2 asset types
/DDLAssetType3	GET	Dropdown level-3 asset types (with descendants)

FxaAdditionsExclusionTypeController.cs

CRUD for addition/exclusion types (metadata).

Dependencies:

- IFxaServiceManager.FxaAdditionsExclusionTypeService
- IPermissionHelper
- ILocalizationService

□ Endpoints

Route	Method	Description
/Search	POST	List types
/Add	POST	Create a type
/GetByIdForEdit	GET	Fetch type for editing
/Edit	POST	Update a type
/Delete	DELETE	Remove a type

FxaRevaluationController.cs

Handles **asset revaluation** transactions (TransTypeId = 8).

Dependencies:

- IFxaServiceManager.FxaTransactionService
- $\bullet \quad \hbox{IFxaServiceManager.FxaTransactionsRevaluationService}$
- IAccServiceManager
- IPermissionHelper
- ICurrentData
- ILocalizationService

Route	Method	Description
/Search	POST	Filter revaluation records
/Add	POST	Record new revaluation (transaction & journal)

Route	Method	Description
/Delete	DELETE	Delete a revaluation transaction

FxaTransactionsPaymentController.cs

Manages **payments** against FXA transactions.

Dependencies:

- IFxaServiceManager.FxaTransactionsPaymentService
- IAccServiceManager
- IPermissionHelper
- ICurrentData
- ILocalizationService
- IApiDDLHelper
- IWebHostEnvironment

□ Endpoints

Route	Method	Description
/Search	POST	List payment records
/Add	POST	Create a payment
/Update	POST	Modify an existing payment
/DDLFxaAddExcType	GET	Dropdown for addition/exclusion types
/GetByIdForEdit	GET	Fetch payment for editing
/Edit	POST	Update payment details
/Delete	DELETE	Remove a payment record

SharedController.cs

Provides shared utilities for FXA modules.

Dependencies:

- IFxaServiceManager.FxaFixedAssetService
- ISysConfigurationHelper

• ICurrentData

□ Endpoints

Route	Method	Description
/GetCostCenterProperties	GET	Load cost-center visibility & titles
/GetAssetDataByNo	GET	Lookup asset financial data by its number

FxaSaleController.cs

Manages asset sale lifecycle (TransTypeId = 4).

Dependencies:

- IFxaServiceManager.FxaTransactionService
- IAccServiceManager
- IPermissionHelper
- ICurrentData
- ILocalizationService

□ Endpoints

Route	Method	Description
/Search	POST	List sale transactions
/Add	POST	Record a new sale
/View	GET	View sale details (read-only)
/GetByIdForEdit	GET	Fetch sale for editing
/Edit	POST	Update sale record
/Delete	DELETE	Remove a sale transaction

Note: All controllers extend BaseFxaApiController and share the prefix

/api/{version}/FXA/[controller] . They uniformly enforce permission checks, session-based facility restrictions, and return Result<T> wrappers.