# Domain Documentation

This document summarizes the Domain Entities and Enums, and their alignment with the BRD. It also includes additional enums (e.g., PasswordFormat) that are essential for login and registration.

## 1. Registration

Entity: Registration.cs

- LicenseTypeId + LicenseType → [Enum] LicenseType (Islamic, Commercial, Banking, Exchange, FinTech)  
- LicenseSectorId + LicenseSector → [Enum] LicenseSector (Banking, Exchange)  
- FinancialDomainId + FinancialDomain → [Enum] FinancialDomain (Islamic, Commercial)  
- Status → [Enum] RegistrationStatus (Draft, Submitted, UnderReview, Approved, Rejected, ReturnedForEdit, FinalSubmission, Archived)  
- BusinessScaleRangeId → [Entity] BusinessScaleRange (lookup table for institution size ranges)  
- EmployeeRangeId → [Entity] EmployeeRange (lookup table for employee count ranges)

## 2. FIContact

Entity: FIContact.cs

- ContactTypeId + ContactType → [Enum] ContactType (Primary, Authorized, Delegate, BusinessOwner)

## 3. FIRegistrationStatusLog

Entity: FIRegistrationStatusLog.cs

- RegistrationStatus → [Enum] RegistrationStatus  
- ValidationStatus → [Enum] ValidationStatus (Draft, SubmitForApproval, Accepted, Return, Rejected)  
- ApprovalStatus → [Enum] ApprovalStatus (Accepted, Return, Rejected)  
- AuditStatus → [Enum] AuditStatus (Accepted, Return, Rejected)  
- Plus: PerformedBy, ActionDateUtc, Remarks (Audit Trail fields)

## 4. Notification

Entity: Notification.cs

- EventTypeId + EventType → [Enum] NotificationEvent (RegistrationSubmitted, RegistrationApproved, RegistrationRejected, RegistrationReturnedForEdit, NewAssignment)  
- RecipientUserId, Message, Channel, Status, CreatedOnUtc

Entity: NotificationLog.cs

- Linked to NotificationId, logs delivery channel, success/failure, response.

## 5. User

Entity: User.cs

- PasswordFormat → [Enum] PasswordFormat (Clear, Encrypted, Hashed)  
This is not directly from the BRD but is essential for login and registration.

## 6. Lookup Tables

Entities: BusinessScaleRange.cs, EmployeeRange.cs

- Stored as Entities because their ranges may change or expand.

## Summary Table

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| --- | --- | --- |
| Entity | Enum | Purpose (BRD mapping) |
| Registration | LicenseType, LicenseSector, FinancialDomain, RegistrationStatus | Institution license details + lifecycle status |
| FIContact | ContactType | Types of institution contacts |
| FIRegistrationStatusLog | RegistrationStatus, ValidationStatus, ApprovalStatus, AuditStatus | Workflow + audit history |
| Notification | NotificationEvent | Trigger events for notifications |
| User | PasswordFormat | Internal login/identity |
| BusinessScaleRange (Entity) | — | Lookup table for institution size ranges |
| EmployeeRange (Entity) | — | Lookup table for employee count ranges |