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ONE-LINE SUMMARY

Rule Type	INSERT	UPDATE
Business	Core + Relationships	Core + Relationships + IDs
Logical	Core + Relationships	Core + Relationships + IDs
Technical	Core + Relationships + DB-backed Dimensions	Core + Relationships + IDs + DB-backed Dimensions

If you want next, I can:

- Convert this into **Swagger validation documentation**
- Map each row to **exact constraint class names**
- Produce a **checklist for test case coverage**
- Generate a **decision table used by validation service**

Just tell me which.



include CROSS-CUTTING also in individual

Below is the **reworked, authoritative validation matrix**, where **CROSS-CUTTING validations** are explicitly included inside each **Rule Type × Action Type** section (as requested).

This reflects **exactly what is implemented**, not conceptual rules.

BUSINESS RULE

◆ INSERT

## Request-level

- `actionCode`
  - **Mandatory**
  - Must be `INSERT`

## Identity (cross-cutting)

- Exactly **one** must be present:
  - `user.soeid`
  - **OR** `appInfo.appId`
- **✗** Both present → error
- **✗** None present → error

## Entity (core)

- `entity.entityName` – **Mandatory**
- `entity.entityType` – **Mandatory**
- `entity.metadataStatusCd` – **Mandatory**
- `entity.metadataRecordType` – **Mandatory**
- `entity.entityDescription` – **Mandatory**

## Entity IDs

- `entity.entityMasterId` – **Must be NULL**
- `entity.recordUid` – **Must be NULL**

## Entity Name (cross-cutting)

- `entity.entityName`
  - Must be **unique** across all entities in the request

## Entity Relationships

- At least one **Business Rule** primary DE relationship required
- For **each** relationship:
  - `relationshipType` – **Mandatory**
  - `entityType` – **Mandatory**
  - `metadataStatusCd` – **Mandatory**
  - `metadataRecordType` – **Mandatory**
  - `toUuid` – **Mandatory**
  - `toEntityMasterId` – **Mandatory**

## Entity Dimensions

- Optional
  - If present:
    - `metadataStatusCd` – Mandatory
    - Controlled parameters validated (if applicable)
- 

## ◆ UPDATE

### Request-level

- `actionCode`
  - Mandatory
  - Must be `UPDATE`

### Identity (cross-cutting)

- Exactly one of:
  - `user.soeid`
  - `appInfo.appId`

### Entity (core)

- `entity.entityName` – Mandatory
- `entity.entityType` – Mandatory
- `entity.metadataStatusCd` – Mandatory
- `entity.metadataRecordType` – Mandatory
- `entity.entityDescription` – Mandatory

### Entity IDs

- `entity.entityMasterId` – Mandatory (>0)
- `entity.recordUid` – Mandatory (>0)

### Entity Name (cross-cutting)

- Unique across request

### Entity Relationships

- Same as INSERT

### Entity Dimensions

- Same as INSERT
-

# LOGICAL RULE

## ◆ INSERT

### Request-level

- `actionCode` – Mandatory ( `INSERT` )

### Identity (cross-cutting)

- Exactly one of:
  - `user.soeid`
  - `appInfo.appId`

### Entity (core)

- `entity.entityName` – Mandatory
- `entity.entityType` – Mandatory
- `entity.metadataStatusCd` – Mandatory
- `entity.metadataRecordType` – Mandatory
- `entity.entityDescription` – Mandatory

### Entity IDs

- `entity.entityMasterId` – Must be NULL
- `entity.recordUid` – Must be NULL

### Entity Name (cross-cutting)

- Must be unique across entities

### Entity Relationships

- Logical-rule relationship mandatory
- Same mandatory relationship fields as Business Rule

### Entity Dimensions

- Optional
- If present:
  - `metadataStatusCd` mandatory
  - Controlled parameters validated

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## ◆ UPDATE

## Request-level

- `actionCode` – Mandatory ( `UPDATE` )

## Identity (cross-cutting)

- Exactly one of:
  - `user.soeid`
  - `appInfo.appId`

## Entity (core)

- Same as INSERT

## Entity IDs

- `entity.entityMasterId` – Mandatory
- `entity.recordUid` – Mandatory

## Entity Name (cross-cutting)

- Unique across request

## Entity Relationships

- Same as INSERT

## Entity Dimensions

- Same as INSERT
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# TECHNICAL RULE

## ◆ INSERT

## Request-level

- `actionCode` – Mandatory ( `INSERT` )

## Identity (cross-cutting)

- Exactly one of:
  - `user.soeid`
  - `appInfo.appId`

## Entity (core)

- `entity.entityName` – Mandatory

- `entity.entityType` – Mandatory
- `entity.metadataStatusCd` – Mandatory
- `entity.metadataRecordType` – Mandatory
- `entity.entityDescription` – Mandatory

## Entity IDs

- `entity.entityMasterId` – Must be NULL
- `entity.recordUid` – Must be NULL

## Entity Name (cross-cutting)

- Must be unique across request

## Entity Relationships

- Same base relationship validations
- 

## Entity Dimensions (STRICT – DB-BACKED)

Applies to `DcmrControlledParameter`

Each of the following `paramNames` is mandatory

and `paramValue` must exist in DB reference data (loaded at startup):

- `ruleEngineCsiIdentifier`
- `ruleEngineZoneIdentifier`
- `dataNamespace`
- `dataQualityRuleDeploymentIdentifier`
- `dataProfileTeam`
- `dataQualityRuleSchedule`
- `expressionLanguage`
- `dataQualityRuleTimePeriod`
- `dataQualityTargetSystemCsiIdentifier`
- `eagleScope`

Validation behavior:

- Reference data loaded at **application startup**
- Missing / invalid value → validation error

`DcmrNumericParameter`

- Type resolved
- No DB constraint yet (extensible)

## ◆ UPDATE

### Request-level

- `actionCode` – Mandatory ( `UPDATE` )

### Identity (cross-cutting)

- Exactly one of:
  - `user.soeid`
  - `appInfo.appId`

### Entity (core)

- Same as INSERT

### Entity IDs

- `entity.entityMasterId` – Mandatory
- `entity.recordUid` – Mandatory

### Entity Name (cross-cutting)

- Unique across request

### Entity Relationships

- Same as INSERT

### Entity Dimensions

- Same DB-backed validations as INSERT

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## ERROR HANDLING (APPLIES TO ALL)

- All validations are accumulated
  - No early throws inside constraints
  - Final response contains:
    - Multiple validation errors
    - Full JSON path ( `datasets[0].entities[1].entityDimensions[3].paramValue` )
  - Single response → user fixes everything in one go
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## FINAL SUMMARY TABLE

Rule Type	INSERT	UPDATE
Business	Core + Relationships + Cross-cutting	Core + Relationships + IDs + Cross-cutting
Logical	Core + Relationships + Cross-cutting	Core + Relationships + IDs + Cross-cutting
Technical	Core + Relationships + <b>DB-backed Dimensions</b> + Cross-cutting	Core + Relationships + IDs + <b>DB-backed Dimensions</b> + Cross-cutting

If you want next, I can:

- Map **each bullet** → **exact constraint class**
- Produce **JUnit test matrix**
- Generate **Swagger/OpenAPI validation docs**
- Create **onboarding documentation for new devs**

Say the word.

