

5 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

◆ 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`
-

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
-

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 + DB-backed Dimensions + Cross-cutting	Core + Relationships + IDs + DB-backed Dimensions + 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.

