

# Reporting API changelog

## Version 2.0 to Version 2.1

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# 1. Executive summary

This changelog documents all modifications introduced between Version 2.0 and Version 2.1 of the MaPS Pensions Dashboards Reporting API OpenAPI specification (OpenAPI 3.0.0). Changes have been identified through a comprehensive line-by-line comparison of both specifications.

**Version 2.1 introduces BREAKING CHANGES that affect the following areas:**

- Schema consolidation: `SubmissionStatusDefinition` and `RecordIdDefinition` merged into `GeneralReportingProperties`.
- "late submission" removed from `SubmissionReasonNullNotIncluded` enum and all discriminator mappings.
- Service-availability endpoints changed from `oneOf` to `anyOf` schema composition.
- `NullSubmission` replaced by `NullSubmissionMultipleHolders` (single `holdernameGuid` to items array of `holdernameGuids`).
- Field rename: `unavail_schedule` to `unavail_scheduled` in `ServiceUnavailabilityData`.
- `ViewResponseUnavailableRequest` flattened — nested items array removed.
- `ProblemDetails`: `timestamp` to `datetimestamp`, `as_uri` and `code` description changes.
- Error code fix: `INVALID_MISSINGADMIN_ACCOUNT` to `INVALID_MISSINGADMIN_COUNT`.
- `BaseCalculationRequest` required field composition simplified.
- `CalculationRequest` changed from `SubmissionReasonNullNotIncluded` to `SubmissionReasonNullIncluded`.
- `ViewResponse` schemas (`RequestNumber`, `ResponseTime`) changed to `SubmissionReasonNullIncluded`.

**All consuming systems, pension providers, and scheme integrators MUST review Section 3.1 (Breaking Changes) and Section 5 (Backwards Compatibility) before migrating to v2.1.**

## 2. Version information

Attribute	Details
Previous version	2.0
New version	2.1
OpenAPI specification	3.0.0
Previous server URL	reporting-api/2.0
New server URL	reporting-api/2.1
Endpoints affected	6 of 6 (all endpoints impacted)
Breaking changes	11
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## 3. Change register

### 3.1 Breaking changes

These changes alter request validation behaviour and may cause previously valid payloads to be rejected, or previously invalid payloads to be accepted.

#### BRK-001

CHANGE ID	BRK-001
SEVERITY	<b>CRITICAL</b>
COMPONENT	components/schemas/ (multiple)
CATEGORY	Schema Consolidation
ENDPOINTS	All 6 endpoints (via GeneralReportingProperties composition)

#### Description:

In v2.0, SubmissionStatusDefinition (submission\_status enum) and RecordIdDefinition (record\_id uuid) were standalone reusable schemas referenced separately by multiple data schemas. In v2.1, these fields are consolidated directly into GeneralReportingProperties, eliminating the standalone definitions. This changes the allOf composition of every schema that previously referenced them: GenericReportingProperties, NullSubmissionData, ServiceAvailabilityReportData, BaseCalculationRequest, CalculationRequest, ViewResponseRequestNumberData, ViewResponseResponseTimesData, and ViewResponseUnavailableRequest.

#### Before (v2.0):

```
GeneralReportingProperties:
  required: [reporting_period_start]
  properties:
    reporting_period_start: date-time

SubmissionStatusDefinition: (standalone)
  required: [submission_status]
  enum: [on time, correction, late]

RecordIdDefinition: (standalone)
  required: [record_id]
  format: uuid
```

#### After (v2.1):

```
GeneralReportingProperties:
  required: [record_id, submission_status,
    reporting_period_start]
  properties:
```

```
record_id: uuid
submission_status: enum [on time, correction, late]
reporting_period_start: date-time
```

SubmissionStatusDefinition: REMOVED

RecordIdDefinition: REMOVED

### **Impact:**

- All data schemas that previously composed with SubmissionStatusDefinition and/or RecordIdDefinition now rely on GeneralReportingProperties for those fields.
- Code generators (e.g., OpenAPI Generator, NSwag, AutoRest) will produce different allOf composition structures. Client models must be regenerated.
- The resolved property set is functionally unchanged — the same fields are still required.

### **Action required:**

- Regenerate client SDKs from the v2.1 specification.
- Update any code that references the removed standalone definitions.

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## **BRK-002**

<b>CHANGE ID</b>	BRK-002
<b>SEVERITY</b>	<b>CRITICAL</b>
<b>COMPONENT</b>	components/schemas/SubmissionReasonNullNotIncluded + path-level discriminators
<b>CATEGORY</b>	Enum / Discriminator
<b>ENDPOINTS</b>	POST /service-availability/find POST /service-availability/view POST /view-response/response-time POST /view-response/calculations

### **Description:**

The "late submission" value has been removed from the SubmissionReasonNullNotIncluded enum and from all discriminator mappings across affected endpoints. Clients that submit data with "late submission" as the submission\_reason will receive validation errors in v2.1. The lateSubmissionCorrectionExample has also been removed from all endpoints.

### **Before (v2.0):**

SubmissionReasonNullNotIncluded:

```
enum:
  - "initial submission"
  - "resubmission"
  - "late submission"
```

Discriminator mappings on service-availability/find, /view, response-time, calculations included "late submission" with lateSubmissionCorrectionExample

### After (v2.1):

```
SubmissionReasonNullNotIncluded:  
  enum:  
    - "initial submission"  
    - "resubmission"
```

All "late submission" discriminator mappings removed.  
lateSubmissionCorrectionExample removed.

### Impact:

- Payloads with submission\_reason = " " will fail validation on all affected endpoints.
- This aligns the enum with the actual supported submission reasons in v2.1.

### Action required:

- Remove all usage of "late submission" as a submission\_reason value.
- Update test suites to remove "late submission" test cases for all affected endpoints.

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## BRK-003

<b>CHANGE ID</b>	BRK-003
<b>SEVERITY</b>	<b>HIGH</b>
<b>COMPONENT</b>	paths /service-availability/find and /view (request body schema)
<b>CATEGORY</b>	Schema Composition
<b>ENDPOINTS</b>	POST /service-availability/find POST /service-availability/view

### Description:

Both service-availability endpoints changed their request body schema composition from oneOf to anyOf. Under oneOf, the request must match exactly one schema. Under anyOf, the request must match at least one. This also changes the referenced schemas from NullSubmission to NullSubmissionMultipleHolders (see BRK-004).

### Before (v2.0):

```
requestBody:  
  content:  
    application/json:  
      schema:
```

```
oneOf:
  - $ref: '#/.../NullSubmission'
  - $ref: '#/.../ServiceAvailabilityReportData'
```

### After (v2.1):

```
requestBody:
  content:
    application/json:
      schema:
        anyOf:
          - $ref: '#/.../NullSubmissionMultipleHolders'
          - $ref: '#/.../ServiceAvailabilityReportData'
```

### Impact:

- Validators that enforce strict oneOf (exactly one match) need to be updated to anyOf semantics.
- The null submission schema reference has changed completely (see BRK-004).

### Action required:

- Update validation logic from oneOf to anyOf for service-availability endpoints.
- Update null submission payloads to use NullSubmissionMultipleHolders format (see BRK-004).

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## BRK-004

<b>CHANGE ID</b>	BRK-004
<b>SEVERITY</b>	<b>CRITICAL</b>
<b>COMPONENT</b>	components/schemas/NullSubmissionMultipleHolders (replaces NullSubmission for service-availability)
<b>CATEGORY</b>	Schema Structure
<b>ENDPOINTS</b>	POST /service-availability/find POST /service-availability/view

### Description:

In v2.0, null submissions for service-availability used the NullSubmission schema containing NullSubmissionData with a single holdernameGuid field. In v2.1, a new NullSubmissionMultipleHolders schema is used instead, with an items array of holdernameGuid UUID strings (maxItems: 667), allowing reporting of null submissions for multiple holders in a single request.

### Before (v2.0):

```
NullSubmission → NullSubmissionData:
  allOf:
    - HoldernameGuidDefinition (single holdernameGuid)
    - RecordIdDefinition
    - SubmissionIdDefinition
```

- SubmissionStatusDefinition
- GenericReportingProperties

Example:

```
holdernameGuid: "816f82b5-..."
submission_reason: "null submission"
```

### After (v2.1):

NullSubmissionMultipleHolders:

```
allOf:
  - SubmissionIdDefinition
  - GeneralReportingProperties
  - SubmissionReasonNullIncluded
  - items: array of uuid strings (maxItems: 667)
```

Example:

```
submission_reason: "null submission"
items:
  - "816f82b5-..."
  - "927a93c6-..."
```

### Impact:

- Null submission payloads must now send an array of holdernameGuids in the items field instead of a single holdernameGuid at the top level.
- The schema composition is completely different — no RecordIdDefinition, no SubmissionStatusDefinition.

### Action required:

- Restructure null submission payloads for service-availability endpoints to use the items array format.
- Update integration tests for null submission scenarios.

## BRK-005

<b>CHANGE ID</b>	BRK-005
<b>SEVERITY</b>	<b>HIGH</b>
<b>COMPONENT</b>	components/schemas/ServiceUnavailabilityData
<b>CATEGORY</b>	Field Name
<b>ENDPOINTS</b>	POST /service-availability/find POST /service-availability/view

### Description:

The boolean field "unavail\_schedule" in ServiceUnavailabilityData has been renamed to "unavail\_scheduled" (past tense "d" added). This is a breaking change as the field name in the JSON payload must match exactly.

### Before (v2.0):

```
ServiceUnavailabilityData:
  properties:
    unavail_schedule:
      type: boolean
      description: false=Unplanned, true=Planned
```

### After (v2.1):

```
ServiceUnavailabilityData:
  properties:
    unavail_scheduled:
      type: boolean
      description: false=Unplanned, true=Planned
```

### Impact:

- All payloads containing ServiceUnavailabilityData must use the new field name.

### Action required:

- Rename "unavail\_schedule" to "unavail\_scheduled" in all service-availability payloads.

---

## BRK-006

<b>CHANGE ID</b>	BRK-006
<b>SEVERITY</b>	<b>CRITICAL</b>
<b>COMPONENT</b>	components/schemas/ViewResponseUnavailableRequest
<b>CATEGORY</b>	Schema Structure
<b>ENDPOINTS</b>	POST /view-response/unavailable

### Description:

In v2.0, ViewResponseUnavailableRequest contained a nested items array where each element was an allOf composition of ViewResponseUnavailable, EriUnavailableData, and AccruedUnavailableData (maxItems: 740). In v2.1, the structure is flattened — the count fields are direct properties of the request object with no wrapping items array.

### Before (v2.0):

```
ViewResponseUnavailableRequest:
  allOf:
    - HoldernameGuidDefinition
    - SubmissionIdDefinition
    - RecordIdDefinition
    - GenericReportingPropertiesWithoutNull
    - items: array (maxItems: 740)
      allOf:
```

- ViewResponseUnavailable
- EriUnavailableData
- AccruedUnavailableData

### After (v2.1):

```
ViewResponseUnavailableRequest:
  allOf:
    - HoldernameGuidDefinition
    - SubmissionIdDefinition
    - GenericReportingPropertiesWithoutNull
    - ViewResponseUnavailable
    - EriUnavailableData
    - AccruedUnavailableData
```

No items array. Count fields are direct properties.

### Impact:

- Payloads must place all count fields (contact\_count, missingadmin\_count, temperror\_count, eri\_unavail\_\*\_count, accrued\_unavail\_\*\_count) directly in the request body instead of inside an items array.

### Action required:

- Remove the items array wrapper from unavailable endpoint payloads. Place all count fields at the top level of the request body.

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## BRK-007

<b>CHANGE ID</b>	BRK-007
<b>SEVERITY</b>	<b>HIGH</b>
<b>COMPONENT</b>	components/schemas/ProblemDetails
<b>CATEGORY</b>	Error Response Schema
<b>ENDPOINTS</b>	All 6 endpoints (all error responses)

### Description:

The ProblemDetails schema has three changes: (1) the timestamp field is renamed to datetimestamp, (2) the as\_uri field description changes from 'A URI for PAT refresh' to 'A URI used in the context of an error and can provide additional information', and (3) the code field description changes from 'defined by the PDP' to 'defined by MaPS'.

### Before (v2.0):

```
ProblemDetails:
  properties:
    timestamp: string (date-time)
```

```
as_uri: "A URI for PAT refresh."
errors[].code: "...defined by the PDP"
```

#### **After (v2.1):**

```
ProblemDetails:
  properties:
    datetimestamp: string (date-time)
    as_uri: "A URI used in the context of an error
      and can provide additional information."
    errors[].code: "...defined by MaPS"
```

#### **Impact:**

- Error response parsing must use 'datetimestamp' instead of 'timestamp'.
- The description changes reflect organisational naming updates (PDP → MaPS).

#### **Action required:**

- Update error response models to use 'datetimestamp' field name.
- Update any documentation referencing 'PDP' to 'MaPS'.

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### **BRK-008**

<b>CHANGE ID</b>	BRK-008
<b>SEVERITY</b>	<b>HIGH</b>
<b>COMPONENT</b>	components/schemas/BaseCalculationRequest
<b>CATEGORY</b>	Required Fields
<b>ENDPOINTS</b>	POST /view-response/calculations

#### **Description:**

The explicit required fields list has been reduced. holdernameGuid and record\_id have been removed from the BaseCalculationRequest required array. RecordIdDefinition has also been removed from the allOf composition (consolidated into GeneralReportingProperties via BRK-001).

#### **Before (v2.0):**

```
BaseCalculationRequest:
  allOf:
    - HoldernameGuidDefinition
    - RecordIdDefinition
  required:
    - record_id
    - holdernameGuid
    - calculation_type
```

### After (v2.1):

```
BaseCalculationRequest:  
  allOf:  
    - HoldernameGuidDefinition  
  required:  
    - calculation_type
```

### Impact:

- holdernameGuid is no longer listed as explicitly required in BaseCalculationRequest. However, it remains present via the allOf reference to HoldernameGuidDefinition, which declares it as required within its own schema.
- record\_id is now required via GeneralReportingProperties (BRK-001).

### Action required:

- Verify that client SDK generation correctly resolves the allOf composition and still enforces holdernameGuid and record\_id as required.
- No payload changes are required; the fields remain mandatory through composition.

---

## BRK-009

CHANGE ID	BRK-009
SEVERITY	<b>HIGH</b>
COMPONENT	components/schemas/CalculationRequest
CATEGORY	Schema Reference
ENDPOINTS	POST /view-response/calculations

### Description:

In v2.0, CalculationRequest used SubmissionReasonNullNotIncluded (allowing 'initial submission', 'resubmission', 'late submission'). In v2.1, it uses SubmissionReasonNullIncluded (allowing 'initial submission', 'resubmission', 'null submission'). This means calculations can now accept null submissions, and the 'late submission' option is removed. Additionally, the separate SubmissionStatusDefinition reference has been removed (consolidated into GeneralReportingProperties).

### Before (v2.0):

```
CalculationRequest allOf:  
  - BaseCalculationRequest  
  - GeneralReportingProperties  
  - SubmissionStatusDefinition  
  - SubmissionReasonNullNotIncluded  
  - SubmissionIdDefinition  
  - anyOf: [SingleCalc / MultipleCalc]
```

### After (v2.1):

CalculationRequest allOf:

- BaseCalculationRequest
- GeneralReportingProperties
- SubmissionReasonNullIncluded
- SubmissionIdDefinition
- anyOf: [SingleCalc / MultipleCalc]

(No separate SubmissionStatusDefinition needed)

### Impact:

- Calculations endpoint now accepts 'null submission' as submission\_reason.
- 'late submission' is no longer valid for this endpoint.

### Action required:

- Update validation to accept 'null submission' for calculations.
- Remove 'late submission' handling for the calculations endpoint.

---

## BRK-010

<b>CHANGE ID</b>	BRK-010
<b>SEVERITY</b>	<b>HIGH</b>
<b>COMPONENT</b>	components/schemas/ViewResponseRequestNumberData, ViewResponseResponseTimesData
<b>CATEGORY</b>	Schema Reference
<b>ENDPOINTS</b>	POST /view-response/request-number POST /view-response/response-time

### Description:

In v2.0, ViewResponseRequestNumberData and ViewResponseResponseTimesData referenced GenericReportingPropertiesWithoutNull (which used SubmissionReasonNullNotIncluded containing 'late submission'). In v2.1, they reference GeneralReportingProperties + SubmissionReasonNullIncluded, accepting 'null submission' and removing 'late submission' at the schema level. RecordIdDefinition has also been removed from their allOf (consolidated into GeneralReportingProperties).

### Before (v2.0):

ViewResponseRequestNumberData allOf:

- HoldernameGuidDefinition
- RecordIdDefinition
- SubmissionIdDefinition
- RequestNumber
- GenericReportingPropertiesWithoutNull

ViewResponseResponseTimesData allOf:

- HoldernameGuidDefinition
- RecordIdDefinition
- SubmissionIdDefinition
- GenericReportingPropertiesWithoutNull
- ResponseTimes

#### **After (v2.1):**

ViewResponseRequestNumberData allOf:

- HoldernameGuidDefinition
- SubmissionIdDefinition
- RequestNumber
- GeneralReportingProperties
- SubmissionReasonNullIncluded

ViewResponseResponseTimesData allOf:

- HoldernameGuidDefinition
- SubmissionIdDefinition
- GeneralReportingProperties
- SubmissionReasonNullIncluded
- ResponseTimes

#### **Impact:**

- Both schemas now accept 'null submission' and no longer accept 'late submission'.
- RecordIdDefinition no longer directly referenced (comes from GeneralReportingProperties).

#### **Action required:**

- Update client-side enum validation for these schemas.

---

### **BRK-011**

<b>CHANGE ID</b>	BRK-011
<b>SEVERITY</b>	<b>HIGH</b>
<b>COMPONENT</b>	components/responses/ViewResponseUnavailableBadRequestError
<b>CATEGORY</b>	Error Code
<b>ENDPOINTS</b>	POST /view-response/unavailable

#### **Description:**

The error code "INVALID\_MISSINGADMIN\_ACCOUNT" was a typo. It has been corrected to INVALID\_MISSINGADMIN\_COUNT to be consistent with the field name missingadmin\_count.

### **Before (v2.0):**

errors:

- code: "INVALID\_MISSINGADMIN\_ACCOUNT"

### **After (v2.1):**

errors:

- code: "INVALID\_MISSINGADMIN\_COUNT"

### **Impact:**

- Clients that parse or match against specific error codes must update to the corrected code.
- The example reference has also been corrected: BadRequestMissingAdminCountExample (was BadRequestMissingAdminAccountExample).

### **Action required:**

- Update error code matching logic for the unavailable endpoint.
- 

## **3.2 Behavioural changes**

### **BHV-001**

<b>CHANGE ID</b>	BHV-001
<b>SEVERITY</b>	MEDIUM
<b>COMPONENT</b>	Server Configuration
<b>CATEGORY</b>	Base URL
<b>ENDPOINTS</b>	All 6 endpoints

### **Description:**

The API base path version segment has been updated.

### **Before (v2.0):**

reporting-api/2.0

### **After (v2.1):**

reporting-api/2.1

### **Action required:**

Update all client configurations, environment variables, and deployment manifests to reference the new base path.

### 3.3 Schema modifications

Beyond the breaking changes in Section 3.1, the following additional schema modifications have been identified:

#### SCH-001

<b>CHANGE ID</b>	SCH-001
<b>SEVERITY</b>	LOW
<b>COMPONENT</b>	Documentation (schema description)
<b>CATEGORY</b>	Base URL
<b>ENDPOINTS</b>	All endpoints using SubmissionIdDefinition

#### *Description:*

The description for SubmissionIdDefinition. `submission_id` has been expanded to include explicit rules about when `submission_id` should be null versus populated.

#### *Before (v2.0):*

description: "The submission id is a unique identifier for the batch of records as part of the same data being reported."

#### *After (v2.1):*

description: "The submission id is a unique identifier for the batch of records as part of the same data being reported. `Submission_id` must always be populated for all records. When `submission_reason` is 'null submission' and for any individual record not submitted as part of a batch, `submission_id` should be null."

#### SCH-002

<b>CHANGE ID</b>	SCH-002
<b>SEVERITY</b>	LOW
<b>COMPONENT</b>	Schema Validation Constraint
<b>CATEGORY</b>	Base URL
<b>ENDPOINTS</b>	POST /view-response/calculations

The `minItems` constraint on the `items` array in `CalculationDataArray` was changed from 1 to 0, allowing empty calculation arrays to be submitted.

### Before (v2.0):

```
CalculationDataArray:  
  items:  
    minItems: 1
```

### After (v2.1):

```
CalculationDataArray:  
  items:  
    minItems: 0
```

## 3.4 Error response changes

The error response examples have been restructured across all endpoints.

### ERR-001

<b>CHANGE ID</b>	ERR-001
<b>SEVERITY</b>	MEDIUM
<b>COMPONENT</b>	All endpoint 400 Bad Request responses
<b>CATEGORY</b>	Error Response Structure
<b>ENDPOINTS</b>	All 6 endpoints

### Description:

In v2.0, each endpoint's 400 Bad Request response contained a single `BadRequestExample` with all possible error codes in one `errors` array. In v2.1, errors are split into individual named examples (e.g., `BadRequestXRequestIDExample`, `BadRequestHoldernameGuidExample`), each defined as a reusable component under `components/examples/` and referenced via `$ref`.

### Before (v2.0):

```
ServiceAvailabilityBadRequestError:  
  examples:  
    BadRequestExample:  
      value:  
        errors:  
          - code: "INVALID_X_REQUEST_ID"  
          - code: "INVALID_HOLDERNAMEGUID"  
          ...(all codes in one array)
```

### After (v2.1):

```
ServiceAvailabilityBadRequestError:  
  examples:  
    BadRequestXRequestIDExample:  
      $ref: '#/components/examples/...'  
    BadRequestHoldernameGuidExample:
```

```
$ref: '#/components/examples/...'
...(one example per error code)
```

#### Impact:

- No payload format change. This is a documentation/tooling improvement.
- All error examples now use 'datetimestamp' instead of 'timestamp' (see BRK-007).

### 3.5 Discriminator and mapping updates

The "late submission" discriminator mapping entry has been removed from the following endpoints (covered by BRK-002):

- /service-availability/find
- /service-availability/view
- /view-response/response-time
- /view-response/calculations

No additional discriminator changes beyond those documented in BRK-002 were identified.

### 3.6 Documentation and metadata changes

#### DOC-001

<b>CHANGE ID</b>	DOC-001
<b>SEVERITY</b>	LOW
<b>COMPONENT</b>	Example Value Casing
<b>CATEGORY</b>	Document and metadata changes
<b>ENDPOINTS</b>	All 6 endpoints (202 response)

The example value for the message field in DefaultResponse changed from lowercase "accepted" to uppercase "ACCEPTED". The field validation pattern (`^[a-zA-Z0-9_]*$`) accepts both cases, so this is a documentation change only.

#### DOC-002

<b>CHANGE ID</b>	DOC-002
<b>SEVERITY</b>	LOW
<b>COMPONENT</b>	API Metadata
<b>CATEGORY</b>	Document and metadata changes

## ENDPOINTS

N/A — API metadata only

The info.contact block containing name, url, and email has been removed from the v2.1 spec. This was metadata for API documentation tools and has no impact on API functionality.

## DOC-003

<b>CHANGE ID</b>	DOC-003
<b>SEVERITY</b>	LOW
<b>COMPONENT</b>	HTTP 413 Coverage
<b>CATEGORY</b>	Document and metadata changes
<b>ENDPOINTS</b>	POST /service-availability/find POST /service-availability/view POST /view-response/request-number

The 413 ContentTooLargeError response has been added to three endpoints that did not previously include it. This is additive — no existing behaviour changes.

### *Before (v2.0):*

413 present ONLY on:

- /view-response/response-time
- /view-response/calculations
- /view-response/unavailable

### *After (v2.1):*

413 now present on ALL 6 endpoints:

- /service-availability/find (NEW)
- /service-availability/view (NEW)
- /view-response/request-number (NEW)
- /view-response/response-time
- /view-response/calculations
- /view-response/unavailable

### *Action required:*

- Add 413 error handling for the three newly affected endpoints.

## 4. Endpoint impact matrix

The following matrix summarises which changes affect each endpoint.

It uses the following shorthand:

SA Find = POST /service-availability/find

SA View = POST /service-availability/view

VR ReqNo = POST /view-response/request-number

VR Time = POST /view-response/response-time

VR Calc = POST /view-response/calculations

VR Unav = POST /view-response/unavailable

X = Endpoint directly affected

– = Specification-level change, no endpoint-specific impact

Change ID	SA Find	SA View	VR ReqNo	VR Time	VR Calc	VR Unav
BRK-001 Schema Consolidation	X	X	X	X	X	X
BRK-002 'late submission' Removed	X	X	–	X	X	–
BRK-003 oneOf → anyOf	X	X	–	–	–	–
BRK-004 NullSubmissionMultiHolders	X	X	–	–	–	–
BRK-005 unavail_scheduled rename	X	X	–	–	–	–
BRK-006 Unavailable flattened	–	–	–	–	–	X
BRK-007 ProblemDetails timestamp	X	X	X	X	X	X
BRK-008 BaseCalcRequest required	–	–	–	–	X	–
BRK-009 Calc SubmissionReason	–	–	–	–	X	–
BRK-010 ViewResp NullIncluded	–	–	X	X	–	–
BRK-011 MISSINGADMIN_COUNT fix	–	–	–	–	–	X

BHV-001 Server URL	X	X	X	X	X	X
ERR-001 Error examples restructured	X	X	X	X	X	X
DOC-001 ACCEPTED uppercase	-	-	-	-	-	-
DOC-002 Contact info removed	-	-	-	-	-	-
DOC-003 413 added	X	X	X	-	-	-
SCH-001 SubmissionId description	-	-	-	-	-	-
SCH-002 CalcDataArray minItems	-	-	-	-	X	-

## 5. Backwards compatibility

Version 2.1 is not backwards compatible with v2.0 for the following scenarios:

- Payloads using submission\_reason = "late submission" for any endpoint (removed in BRK-002).
- Payloads using the NullSubmission schema for service-availability (replaced by NullSubmissionMultipleHolders in BRK-004).
- Payloads using field name "unavail\_schedule" (renamed to "unavail\_scheduled" in BRK-005).
- Payloads using the nested items array for /view-response/unavailable (flattened in BRK-006).
- Error response parsing using "timestamp" field (renamed to "datetimestamp" in BRK-007).
- Error code matching for "INVALID\_MISSINGADMIN\_ACCOUNT" (corrected to \_COUNT in BRK-011).
- Code-generated models from v2.0 (schema composition changed in BRK-001, BRK-008, BRK-009, BRK-010).
- The server URL path has changed from reporting-api/2.0 to reporting-api/2.1 (BHV-001).

Non-breaking additions (413 on more endpoints, description expansions, example changes) do not affect backwards compatibility.

## 6. Appendix A – Schema definition comparison

Schema definition	v2.0	v2.1
HoldernameGuidDefinition	Unchanged	Unchanged
SubmissionIdDefinition	nullable: true (shorter desc)	nullable: true (expanded desc)

GeneralReportingProperties	<b>required:</b> <b>[reporting_period_start]</b>	<b>required:</b> [record_id, submission_status, reporting_period_start]
SubmissionStatusDefinition	<b>Standalone schema</b> <b>enum:</b> [on time, correction, late]	<b>REMOVED (merged into</b> <b>GeneralReportingProperties)</b>
RecordIdDefinition	<b>Standalone schema</b> <b>format:</b> uuid	<b>REMOVED (merged into</b> <b>GeneralReportingProperties)</b>
SubmissionReasonNullIncluded	Unchanged	Unchanged
SubmissionReasonNullNotIncluded	<b>enum:</b> [initial submission, resubmission, late submission]	<b>enum:</b> [initial submission, resubmission]
GenericReportingProperties	<b>allOf:</b> [GeneralReportingProps, SubmissionStatusDef, SubmissionReasonNullIncl]	<b>allOf:</b> [GeneralReportingProps, SubmissionReasonNullIncl]
NullSubmissionData	<b>allOf:</b> [HoldernameGuid, RecordId, SubmissionId, SubmissionStatus, GenericReportingProps]	<b>allOf:</b> [HoldernameGuid, SubmissionId, GenericReportingProps]
NullSubmissionMultipleHolders	(same structure)	(same structure)
ServiceUnavailabilityData	<b>unavail_schedule:</b> boolean	<b>unavail_scheduled:</b> boolean
HolderNameUnavailabilityMap	Unchanged	Unchanged
ServiceAvailabilityReportData	<b>allOf includes</b> RecordIdDef, SubmissionStatusDef	<b>allOf simplified</b> <b>(no RecordIdDef/StatusDef)</b>
ViewResponseRequestNumberData	<b>allOf:</b> [HoldernameGuid, RecordId, SubmissionId, RequestNumber, GenericPropsWithoutNull]	<b>allOf:</b> [HoldernameGuid, SubmissionId, RequestNumber, GeneralReportingProps, SubmissionReasonNullIncl]
ViewResponseResponseTimesData	<b>allOf:</b> [HoldernameGuid, RecordId, SubmissionId, GenericPropsWithoutNull, ResponseTimes]	<b>allOf:</b> [HoldernameGuid, SubmissionId, GeneralReportingProps, SubmissionReasonNullIncl, ResponseTimes]
ViewResponseResponseTimesItemsData	Unchanged	Unchanged
BaseCalculationRequest	<b>allOf:</b> [HoldernameGuid, RecordId] <b>required:</b> [record_id,	<b>allOf:</b> [HoldernameGuid] <b>required:</b> [calculation_type]

**holdernameGuid,  
calculation\_type]**

CalculationDataItems	Unchanged	Unchanged
CalculationDataArray	<b>minItems: 1</b>	<b>minItems: 0</b>
SingleCalculationData	Unchanged	Unchanged
MultipleCalculationData	Unchanged	Unchanged
CalculationRequest	<b>allOf incl. SubmissionStatusDef, SubmissionReasonNullNotIncl</b>	<b>allOf incl. SubmissionReasonNullIncl (no SubmissionStatusDef)</b>
NullSubmission	Unchanged	Unchanged
ViewResponseUnavailableItemsData	Unchanged	Unchanged
ViewResponseUnavailableRequest	<b>Nested items array maxItems: 740 allOf: [Unavail, Eri, Accrued]</b>	<b>Flattened: direct allOf [Unavail, Eri, Accrued] (no items array)</b>
DefaultResponse	<b>message example: "accepted"</b>	<b>message example: "ACCEPTED"</b>
ProblemDetails	<b>timestamp: date-time as_uri: 'PAT refresh' code: 'defined by PDP'</b>	<b>datetimestamp: date-time as_uri: 'additional info' code: 'defined by MaPS'</b>

## 7. Appendix B – Affected OpenAPI paths

Path	HTTP Method
/service-availability/find	POST
/service-availability/view	POST
/view-response/request-number	POST
/view-response/response-time	POST
/view-response/calculations	POST
/view-response/unavailable	POST

All paths retain the same HTTP method (POST), operation IDs, parameter requirements (X-Request-ID header), and response code structure. Changes are limited to request body schemas, discriminator mappings, error response examples, and the addition of 413 responses.

Path-level changes summary:

### **/service-availability/find**

oneOf → anyOf; NullSubmission → NullSubmissionMultipleHolders; "late submission" mapping removed; 413 added; unavail\_schedule → unavail\_scheduled

### **/service-availability/view**

oneOf → anyOf; NullSubmission → NullSubmissionMultipleHolders; "late submission" mapping removed; 413 added; unavail\_schedule → unavail\_scheduled

### **/view-response/request-number**

413 added; schema refs simplified (no RecordIdDefinition); uses SubmissionReasonNullIncluded

### **/view-response/response-time**

"late submission" discriminator mapping removed; schema refs simplified; uses SubmissionReasonNullIncluded

### **/view-response/calculations**

"late submission" discriminator mapping removed; CalculationRequest uses NullIncluded; BaseCalculationRequest required simplified; CalculationDataArray minItems: 1 → 0

### **/view-response/unavailable**

ViewResponseUnavailableRequest flattened (items array removed); INVALID\_MISSINGADMIN\_ACCOUNT → INVALID\_MISSINGADMIN\_COUNT

**The 413 Content Too Large response is now present on ALL 6 endpoints in v2.1 (was only on 3 endpoints in v2.0).**