



NM 23.0.0 - NOP/B2B Reference Manuals - GeneralInformationServices

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References

NM

[1] NOP/B2B Reference Manuals - CommonServices

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Terminology

Main Abbreviations and Acronyms

AIM (Aeronautical Information Message)

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Chapter 1. Introduction

1.1. Identification

- (1) This document forms part of the set of the NM 23.0.0 - NOP/B2B Reference Manuals, which all together form the NM 23.0.0 - NOP/B2B Documentation.
- (2) Its reference is B2B/23.0.0/GeneralInformation.
- (3) Its title is NM 23.0.0 - NOP/B2B Reference Manuals - GeneralInformationServices.

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Chapter 2. Context

- (1) This service group is aimed at giving access to information of a general nature, e.g. AIM, headline news, etc.
- (2) The *GeneralInformationServices* NOP/B2B service group exposes the following services:
 - a) *AIMsService* - Serving Aeronautical Information Messages (AIMs).
 - b) *NMB2BInfoService* - General information about the NM B2B provider.

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Chapter 3. Port Types

3.1. AIMsService Port Type

- (1) AIMsService allows for querying and retrieving Aeronautical Information Messages (AIMs):

- a) [AIMListRequest](#) / [AIMListReply](#)
- b) [AIMRetrievalRequest](#) / [AIMRetrievalReply](#)

3.1.1. AIM List Request

3.1.1.1. SOAP

- (1) The associated SOAP operation is:

```
AIMListReply queryAIMs(
  AIMListRequest request
)
```

3.1.1.2. AIMListRequest

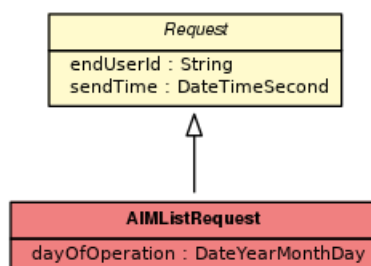


Figure 3.1. AIMListRequest Class Diagram

- (1) Request to query the AIM summaries of which the validity period overlaps the given day of operation.
- (2) Inherits from: [Request](#)
- (3) Attributes:
 - a) **[DateYearMonthDay](#) dayOfOperation** (Mandatory)
Day for which the AIM summaries are requested.
Constraint: See [DAY_OF_OPERATION_LESS_THAN_14_MONTHS](#)
- (4) Constraint:

a)	Name	DAY_OF_OPERATION_LESS_THAN_14_MONTHS
	Attribute	dayOfOperation

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Description	The dayOfOperation must be less than 14 months in the past up to any time in the future.
-------------	--

3.1.1.3. AIMListReply

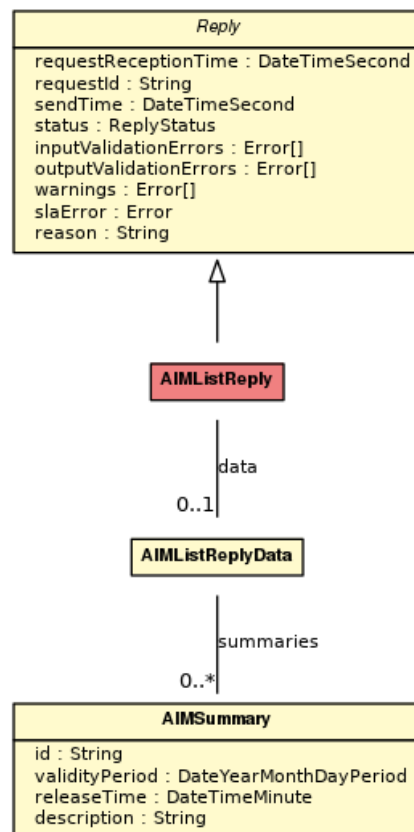


Figure 3.2. AIMListReply Class Diagram

- (1) Reply returned in response to [AIMListRequest](#).
- (2) Inherits from: [Reply](#)
- (3) Attributes:
 - a) [AIMSummary\[\] summaries](#) (Mandatory)
 The list of AIM summaries that match the query.
 The order of the AIM summaries in the returned list is not significant.
 The returned array is empty if no match was found.
Constraint: Size must be comprised between 0 and ∞.

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3.1.2. AIM Retrieval Request

3.1.2.1. SOAP

- (1) The associated SOAP operation is:

```

AIMRetrievalReply retrieveAIMs(
    AIMRetrievalRequest request
)

```

3.1.2.2. AIMRetrievalRequest

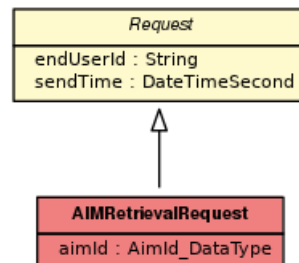


Figure 3.3. *AIMRetrievalRequest* Class Diagram

- (1) Request to retrieve an AIM based on its unique id (extracted from an AIMSummary).
- (2) Inherits from: [Request](#)
- (3) Attributes:
- [AimId_DataType](#) **aimId** (Mandatory)
AIM unique id.

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3.1.2.3. AIMRetrievalReply

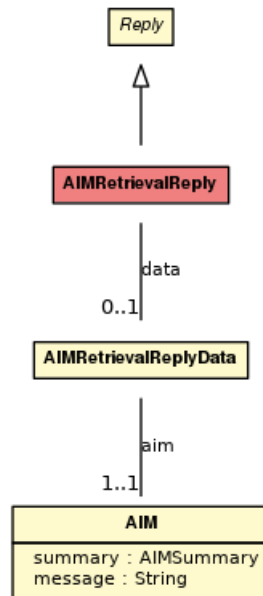


Figure 3.4. AIMRetrievalReply Class Diagram

- (1) Reply returned in response to [AIMRetrievalRequest](#).
- (2) Inherits from: [Reply](#)
- (3) Attributes:
 - a) [AIM aim](#) (Mandatory)
The requested AIM.

3.2. NMB2BInfoService Port Type

3.2.1. Overview

3.2.1.1. Operations

- (1) General information about the NM B2B provider:
 - a) [NMB2BReferenceManualsRequest](#) / [NMB2BReferenceManualsReply](#)
 - b) [NMB2BWSDLsRequest](#) / [NMB2BWSDLsReply](#)
 - c) [NMB2BScenariosRequest](#) / [NMB2BScenariosReply](#)
 - d) [NMB2BAddendaErrataRequest](#) / [NMB2BAddendaErrataReply](#)
 - e) [NMReleaseInformationRequest](#) / [NMReleaseInformationReply](#)

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3.2.1.2. Introduction

- (1) General information about the NM B2B provider is the way to guarantee transparency between an NM B2B consumer's application and the services provided by the NM B2B provider.
- (2) The only way for an NM B2B consumer to know which services are offered by a B2B provider is to ask it.
- (3) The *NMB2BInfo* service will provide the following types of information:
 - a) NM release information:
 - i) The NM release UID
 - ii) The supported NM B2B versions
 - iii) Information about patches
 - b) Documentation for a specific NM B2B version that the NM release supports:
 - i) NM B2B reference manuals
 - ii) NM B2B release notes
 - iii) NM B2B addenda-errata
 - iv) NM B2B scenarios
 - c) End point documents for a specific NM B2B version that the NM release supports:
 - i) WSDLs
 - ii) XSDs
 - d) The profile associated to the NM B2B consumer. The access right of an NM B2B consumer may be different according to the NM platform the NM B2B consumer is connected to. E.g.:
 - i) OPS
 - ii) OPT
 - iii) ...

3.2.1.3. Concepts and Definitions

Name	Description
NM B2B consumer	A requester agent acting on behalf of person/organization that uses NM B2B services or receives NM B2B messages.
NM B2B provider	The NM B2B provider agent providing all NM Web services.

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Name	Description
NM Release	<p>The version identifier of major NM deliveries. It is composed of:</p> <ul style="list-style-type: none"> (1) <major> is the major NM release version (2) <minor> is the minor NM release version (3) <micro> is the micro NM release version <p><u>Example:</u> 19.5.0</p>
NM B2B provider version	<p>The unique identifier of the software running the NM B2B provider agent. It is composed of:</p> <ul style="list-style-type: none"> (1) <NM Release> as defined above. (2) <milestones> corresponds to development milestones of the NM B2B provider agent. (3) <build> is the incremental build number of the NM B2B provider agent. <p><u>Example:</u> 19.5.0.4.76</p>
NM B2B version	<p>Corresponds to the version of the Web Services supported by the NM B2B provider agent. The NM B2B provider agent can support several NM B2B versions. The NM B2B version is supported during two years after its deployment. The NM B2B version identifier of any service artefact is the version identifier of its NM release, namely 18.0.0, 18.5.0, and so forth.</p>
NM platform	Group of B2B service requests.
Partition	<p>Details the authorisation rules of a service use case.</p> <p><u>Example:</u> "update Capacity Plan" on <i>Dataset</i>.</p>
Parts	<p>The values associated to a partition.</p> <p><u>Example:</u> <i>Dataset</i>. {OPERATIONAL, FORECAST, SIMULATION}.</p>

Table 3.1.

3.2.2. Query for the NM B2B reference manuals

3.2.2.1. SOAP

- (1) The associated SOAP operation is:

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```
NMB2BReferenceManualsReply queryNMB2BReferenceManuals(
    NMB2BReferenceManualsRequest request
)
```

3.2.2.2. NMB2BReferenceManualsRequest

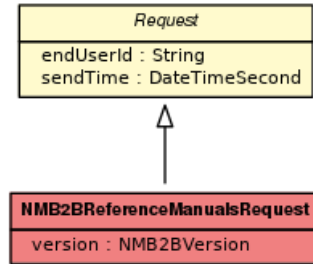


Figure 3.5. NMB2BReferenceManualsRequest Class Diagram

- (1) This service allows querying for the NM B2B reference manuals and the NM B2B release notes associated to a NM B2B version.
- (2) Inherits from: [Request](#)
- (3) Attributes:
 - a) [NMB2BVersion](#) **version** (*Mandatory*)
One of the supported NM B2B versions.

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3.2.2.3. NMB2BReferenceManualsReply

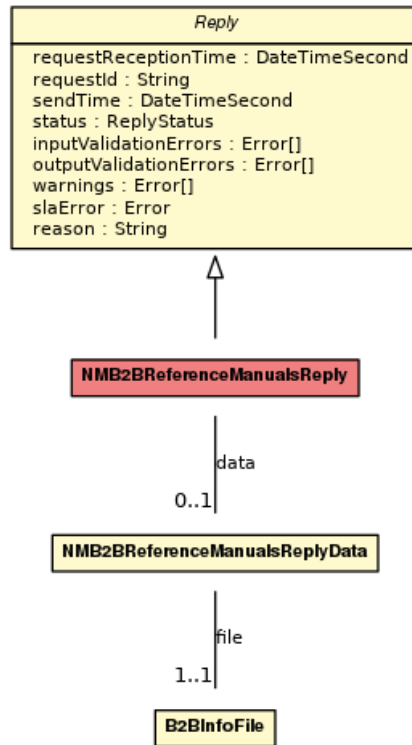


Figure 3.6. NMB2BReferenceManualsReply Class Diagram

- (1) Reply returned in response to [NMB2BReferenceManualsRequest](#).
- (2) Inherits from: [Reply](#)
- (3) Attributes:
 - a) **B2BInfoFile file** (Mandatory)
Identification of the compress file containing the NM B2B reference manuals and the NM B2B release notes corresponding to the requested NM B2B version.

3.2.3. Query for the NM B2B WSDLs

3.2.3.1. SOAP

- (1) The associated SOAP operation is:

```

NMB2BWSDLsReply queryNMB2BWSDLs(
  NMB2BWSDLsRequest request
)
  
```

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3.2.3.2. NMB2BWSDLsRequest

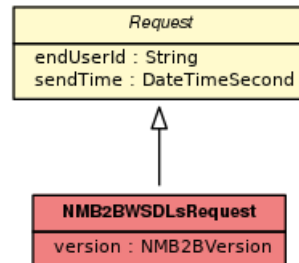


Figure 3.7. NMB2BWSDLsRequest Class Diagram

- (1) This service allows querying for the NM B2B WSDLs and the NM B2B XSDs associated to a NM B2B version.
- (2) Inherits from: [Request](#)
- (3) Attributes:
 - a) [NMB2BVersion](#) **version** (*Mandatory*)
One of the supported NM B2B versions.

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3.2.3.3. NMB2BWSDLsReply

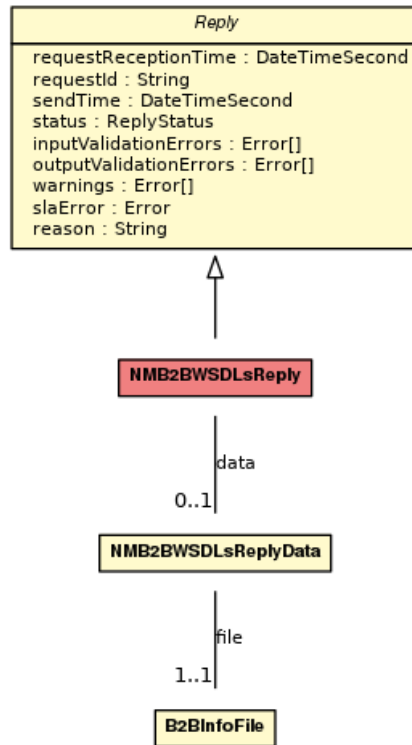


Figure 3.8. NMB2BWSDLsReply Class Diagram

- (1) Reply returned in response to [NMB2BWSDLsRequest](#).
- (2) Inherits from: [Reply](#)
- (3) Attributes:
 - a) **B2BInfoFile file** (Mandatory)
Identification of the compress file containing the NM B2B WSDLs and the NM B2B XSDs corresponding to the requested NM B2B version.

3.2.4. Query for the NM B2B Scenarios

3.2.4.1. SOAP

- (1) The associated SOAP operation is:

```

NMB2BScenariosReply queryNMB2BScenarios(
    NMB2BScenariosRequest request
)
  
```

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3.2.4.2. NMB2BScenariosRequest

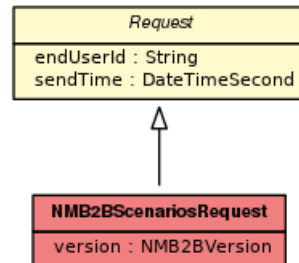


Figure 3.9. NMB2BScenariosRequest Class Diagram

- (1) This service allows querying for the NM B2B scenarios. This is for the moment a REST/SOAP example for each NM B2B service request.
- (2) Inherits from: [Request](#)
- (3) Attributes:
 - a) [NMB2BVersion](#) **version** (Mandatory)
One of the supported NM B2B versions.

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3.2.4.3. NMB2BScenariosReply

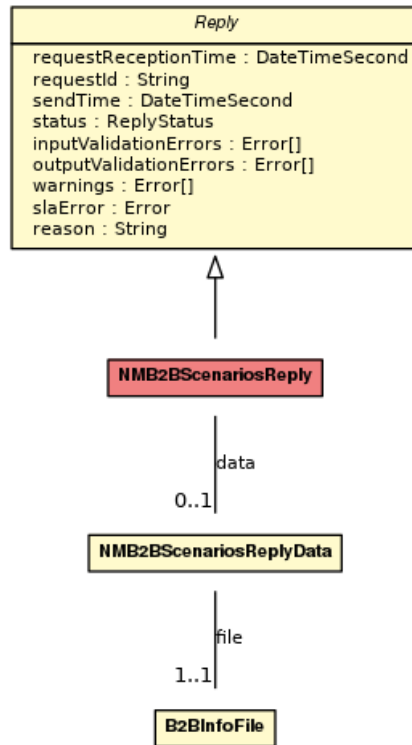


Figure 3.10. NMB2BScenariosReply Class Diagram

- (1) Reply returned in response to [NMB2BScenariosRequest](#).
- (2) Inherits from: [Reply](#)
- (3) Attributes:
 - a) **B2BInfoFile file** (Mandatory)
Identification of the compress file containing the NM B2B Scenarios corresponding to the requested NM B2B version.

3.2.5. Query for the NM B2B Addenda-Errata

3.2.5.1. SOAP

- (1) The associated SOAP operation is:

```

NMB2BAddendaErrataReply queryNMB2BAddendaErrata(
    NMB2BAddendaErrataRequest request
)

```

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3.2.5.2. NMB2BAddendaErrataRequest

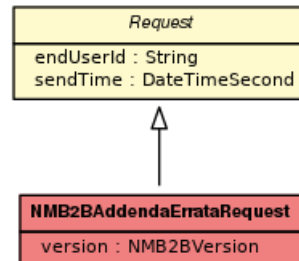


Figure 3.11. NMB2BAddendaErrataRequest Class Diagram

- (1) This service allows querying for a document describing the late modifications or additions (addenda) to the B2B reference manuals and errors (errata) discovered in them after publication.
- (2) This document is associated to a NM B2B version.
- (3) This document may also contain patch description. It is possible that a patch is applied to one or more NM B2B versions.
- (4) Inherits from: [Request](#)
- (5) Attributes:
 - a) [NMB2BVersion](#) **version** (Mandatory)
One of the supported NM B2B versions.

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3.2.5.3. NMB2BAddendaErrataReply

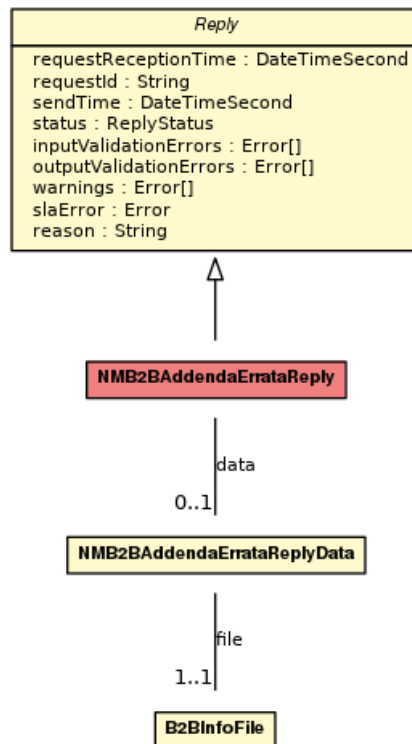


Figure 3.12. NMB2BAddendaErrataReply Class Diagram

- (1) Reply returned in response to [NMB2BAddendaErrataRequest](#).
- (2) Inherits from: [Reply](#)
- (3) Attributes:
 - a) **B2BInfoFile file** (Mandatory)
Identification of the NM B2B Addenda-Errata document corresponding to the requested NM B2B version.

3.2.6. Retrieve NM Release Information

3.2.6.1. SOAP

- (1) The associated SOAP operation is:

```

NMReleaseInformationReply retrieveNMReleaseInformation(
    NMReleaseInformationRequest request
)
  
```


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3.2.6.2. NMReleaseInformationRequest

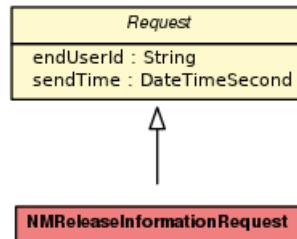


Figure 3.13. *NMReleaseInformationRequest* Class Diagram

- (1) This service allows querying for relevant information associated to the NM B2B provider agent.
- (2) Inherits from: [Request](#)

3.2.6.3. NMReleaseInformationReply

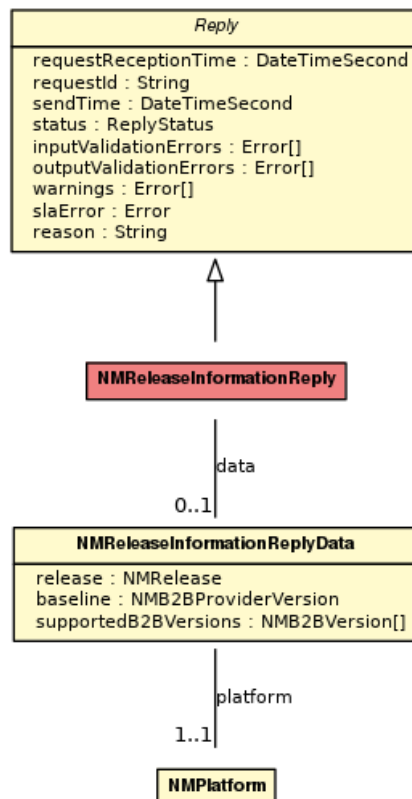


Figure 3.14. *NMReleaseInformationReply* Class Diagram

- (1) Reply returned in response to [NMReleaseInformationRequest](#).
- (2) Inherits from: [Reply](#)

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(3) Attributes:

- a) **NMRelease release** (*Mandatory*)
NM release number.
- b) **NMB2BProviderVersion baseline** (*Mandatory*)
The unique identifier of the software running by the NM B2B provider agent.
- c) **NMB2BVersion[] supportedB2BVersions** (*Mandatory*)
The unique identifier of the software running by the NM B2B provider agent.
Constraint: Size must be comprised between 0 and ∞ .
- d) **NMPlatform platform** (*Mandatory*)
The platform where the NM B2B provider agent is running.

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Chapter 4. Data Types

4.1. AIM

- (1) Attributes:
- a) **AIMSummary** **summary** (Optional)
AIM summary.
 - b) **string** **message** (Optional)
AIM body.
New line characters are encoded using "\n".
- (2) Used by: [AIMMessage](#), [AIMRetrievalReply](#).

4.2. typedef<string> AimId_DataType

- (1) Pattern: DIGIT{8}
- (2) Used by: [AIMRetrievalRequest](#).

4.3. AIMS

4.4. AIMSummary

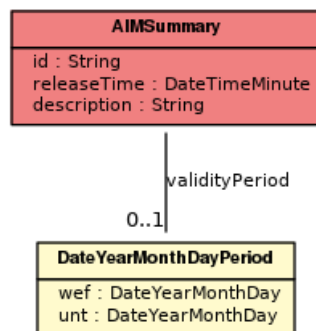


Figure 4.1. AIMSummary Class Diagram

- (1)
- (2) Attributes:
- a) **string** **id** (Optional)
AIM unique id.
 - b) **DateYearMonthDayPeriod** **validityPeriod** (Optional)
The period for which the AIM is valid.

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c) **[DateTimeMinute](#) releaseTime** (*Optional*)

The time at which the AIM was released.

d) **string description** (*Optional*)

AIM short description.

(3) Used by: [AIM](#), [AIMListReply](#).

4.5. B2BInfoFile

(1) Represents the B2B publication artefacts:

(2) `<docbook:orderedList>`
`<docbook:listitem>`
 B2B Reference Manuals
`</docbook:listitem>`
`<docbook:listitem>`
 B2B WSDLs and XSDs
`</docbook:listitem>`
`<docbook:listitem>`
 B2B Scenarios
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Chapter 5. PRE-OPS Testing

- (1) The data available in the PRE-OPS platform for the current AIMsService is fed daily from the OPS systems.

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- for faults, the Systems Incident Management Procedure, ref. STD-CM/PRO/SIMP
- for changes, the IT Change Management Process, ref. STD/ITSM/CHG