

TM Forum Specification

Al Management API Conformance Profile

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TABLE OF CONTENTS

| T | ABLE OF CONTENTS | 3 |
|----|---|----|
| IN | ITRODUCTION - API DESCRIPTION | 5 |
| RI | ESOURCE MODEL CONFORMANCE | 6 |
| | API MANDATORY RESOURCES | 6 |
| | General Notes on Resource Attribute Conformance | 6 |
| | Alarm Resource Mandatory Attributes | 7 |
| | AiContractSpecification Resource Mandatory Attributes | 7 |
| | AiContractViolation Resource Mandatory Attributes | 9 |
| | AiModelSpecification Resource Mandatory Attributes | 10 |
| | AiContract Resource Mandatory Attributes | 11 |
| | AiModel Resource Mandatory Attributes | 12 |
| | Rule Resource Mandatory Attributes | 15 |
| Α | PI OPERATIONS CONFORMANCE | 16 |
| | Alarm Mandatory Operations | 16 |
| | AiContractSpecification Mandatory Operations | 16 |
| | AiContractViolation Mandatory Operations | 16 |
| | AiModelSpecification Mandatory Operations | 16 |
| | AiContract Mandatory Operations | 17 |
| | AiModel Mandatory Operations | 17 |
| | Rule Mandatory Operations | 17 |
| Α | PI GET OPERATION CONFORMANCE | 18 |
| | Definitions for Filter | 18 |
| | GET /alarm?fields=&{filtering} | 18 |
| | GET /alarm/{id}?fields=&{filtering} | 18 |
| | GET /aiContractSpecification?fields=&{filtering} | 18 |
| | GET /aiContractSpecification/{id}?fields=&{filtering} | 19 |
| | GET /aiContractViolation?fields=&{filtering} | 19 |
| | GET /aiContractViolation/{id}?fields=&{filtering} | 19 |
| | GET /aiModelSpecification?fields=&{filtering} | 19 |
| | GET /aiModelSpecification/{id}?fields=&{filtering} | 19 |
| | GET /aiContract?fields=&{filtering} | 19 |
| | GET /aiContract/{id}?fields=&{filtering} | 20 |
| | GET /aiModel?fields=&{filtering} | 20 |
| | GET /aiModel/{id}?fields=&{filtering} | 20 |



| | GET /rule?fields=&{filtering} | 20 |
|---|-------------------------------------|----|
| | GET /rule/{id}?fields=&{filtering} | 20 |
| A | PI POST OPERATION CONFORMANCE | 21 |
| | POST /alarm | 21 |
| | POST /aiContractSpecification | 21 |
| | POST /aiContractViolation | 21 |
| | POST /aiModelSpecification | 22 |
| | POST /aiContract | 22 |
| | POST /aiModel | 23 |
| | POST /rule | 23 |
| A | PI PATCH OPERATION CONFORMANCE | 24 |
| | PATCH /alarm/{id} | 24 |
| | PATCH /aiContractSpecification/{id} | 24 |
| | PATCH /aiModelSpecification/{id} | 24 |
| | PATCH /aiContract/{id} | 24 |
| | PATCH /aiModel/{id} | 25 |
| | PATCH /rule/{id} | 25 |
| A | CKNOWLEDGEMENTS | 26 |
| | Release History | 26 |
| | Version History | 26 |



INTRODUCTION - API DESCRIPTION

The API Component Suite for AI Management defines the set of operations that should be offered in order that a Service Provider can govern Artificial Intelligence systems deployed at scale. Effective governance and management of AI must span the lifecycle from design through deployment and eventual withdrawal from service. However, the initial focus of the AI Management API is restricted to the in-life aspects of AI and in particular on the management of 'model contracts.



RESOURCE MODEL CONFORMANCE

API MANDATORY RESOURCES

The following table indicates the mandatory resources for this API.

| Resource Name | Comment |
|-------------------------|---------|
| Alarm | |
| AiContractSpecification | |
| AiContractViolation | |
| AiModelSpecification | |
| AiContract | |
| AiModel | |
| Rule | |

GENERAL NOTES ON RESOURCE ATTRIBUTE CONFORMANCE

There are three situations that could occur for an attribute:

- Mandatory attribute,
- o Mandatory attribute if the optional parent attribute is present,
- Non-mandatory/Optional attribute. Those are all the other attributes not mentioned in the following subsections. Please refer to the corresponding API REST Specification for more details.
- The tables in the subsections below indicate which attributes are mandatory including mandatory when an optional parent is present.
- Where a resource is an input into an API (e.g. POST, PATCH), Mandatory means that the attribute value must be supplied by the API consumer in the input (and must not be blank or null).
- Where a resource is an output from an API (e.g. GET, POST), Mandatory means that the attribute value must be supplied by the API provider in the output (and must not be blank or null).
- For a sub-resource that is not an array, Mandatory (cardinality 1..1) means that the sub-resource must be present, while Optional (cardinality 0..1) means that the sub-resource may be absent. Mandatory and Optional on the sub-resource attributes apply to the sub-resource if present.
- For a sub-resource that is an array, Mandatory (cardinality 1..*) means that at least one sub-resource must be present in the array, while Optional (cardinality 0..*) means that the array may be absent. Mandatory and Optional on the sub-resource attributes apply to each of the sub-resources if present.



In this table are listed all mandatory attributes. A mandatory attribute MUST be retrieved in resource representation when no attribute selection is used (e.g. GET /../{id}) without any attribute selection

When an attribute is listed with an indentation (in second column) it means this attribute is mandatory if root (parent) attribute is present.

ALARM RESOURCE MANDATORY ATTRIBUTES

| Mandatory at | tribute when parent is present | Rule |
|--------------------------|--------------------------------|--|
| alarmRaised | Гime | M |
| alarmType | | M |
| alarmedObje | ct | M |
| href | | M (in response messages) |
| id | | M (in response messages) |
| perceivedSev | rerity | M |
| probableCaus | se | M |
| sourceSystem | nld | M |
| state | | M |
| correlatedAla | rm (if present) | Array of AlarmRef |
| | id | M |
| crossedThres | sholdInformation.threshold (if | |
| | id | M |
| parentAlarm (if present) | | Array of AlarmRef |
| | | See conditions for AlarmRef at correlatedAlarm |
| place (if prese | ent) | Array of RelatedPlaceRefOrValue |
| | role | М |

AICONTRACTSPECIFICATION RESOURCE MANDATORY ATTRIBUTES

| Mandatory attribute when parent is present | Rule |
|--|--------------------------|
| href | M (in response messages) |



| Mandatory attribute when parent is present | Rule |
|--|---|
| id | M (in response messages) |
| name | M |
| constraint (if present) | Array of ConstraintRef |
| id | M |
| entitySpecRelationship (if present) | Array of EntitySpecificationRelationship |
| relationshipType | М |
| entitySpecRelationship.associationSpec (if present) | |
| id | М |
| relatedParty (if present) | Array of RelatedParty |
| @referredType | M |
| id | M |
| targetEntitySchema (if present) | |
| @schemaLocation | M |
| @type | M |
| specCharacteristic (if present) | Array of CharacteristicSpecification |
| name | M |
| specCharacteristic.validFor (if present) | |
| endDateTime | If validFor is supplied, one or other or both of the start or end dates must be supplied. |
| startDateTime | |
| specCharacteristic.characteristicValueSpecification (if present) | Array of CharacteristicValueSpecification |
| value | M |
| specCharacteristic.characteristicValueSpecification.validFo r (if present) | See conditions for TimePeriod at specCharacteristic.validFor |
| specCharacteristic.charSpecRelationship (if present) | Array of CharacteristicSpecificationRelationshi p |
| TM Forum 2020. All Rights Reserved | Page 8 of 26 |



| Mano | datory attribute when parent is present | Rule |
|------|---|--|
| | href | M (in response messages) O (otherwise) |
| | id | М |
| | name | М |
| | relationshipType | М |

AICONTRACTVIOLATION RESOURCE MANDATORY ATTRIBUTES

| Mandatory attribute when parent is present | Rule |
|--|--------------------------|
| href | M (in response messages) |
| id | M (in response messages) |
| aiContract | М |
| id | М |
| violation | М |
| actualValue | М |
| consequence | М |
| operator | М |
| referenceValue | М |
| violation.attachment (if present) | |
| id | М |
| violation.rule (if present) | |
| id | М |
| relatedParty (if present) | Array of RelatedParty |
| @referredType | М |
| id | М |



AIMODELSPECIFICATION RESOURCE MANDATORY ATTRIBUTES

| Mandatory attribute when parent is present | Rule |
|---|--|
| href | M (in response messages) |
| id | M (in response messages) |
| name | M |
| constraint (if present) | Array of ConstraintRef |
| id | М |
| resourceSpecification (if present) | Array of ResourceSpecificationRef |
| id | М |
| serviceLevelSpecification (if present) | Array of ServiceLevelSpecificationRef |
| id | M |
| serviceSpecRelationship (if present) | Array of ServiceSpecRelationship |
| relationshipType | M |
| entitySpecRelationship (if present) | Array of EntitySpecificationRelationship |
| relationshipType | М |
| entitySpecRelationship.associationSpec (if present) | |
| id | М |
| relatedParty (if present) | Array of RelatedParty |
| @referredType | M |
| id | М |
| targetEntitySchema (if present) | |
| @schemaLocation | M |
| @type | М |
| featureSpecification.constraint (if present) | Array of ConstraintRef |
| | See conditions for ConstraintRef at constraint |
| featureSpecification.featureSpecCharacteristic (if present) | Array of FeatureSpecificationCharacteristic |



| Mar | datory attribute when parent is present | Rule |
|-----|--|---|
| | name | M |
| | ureSpecification.featureSpecRelationship (if sent) | Array of FeatureSpecificationRelationship |
| | name | M |
| | relationshipType | М |

AICONTRACT RESOURCE MANDATORY ATTRIBUTES

| Manda | atory attribute when parent is present | Rule |
|----------|--|---|
| href | | M (in response messages) |
| id | | M (in response messages) |
| state | | M |
| aiCont | tractSpecification | M |
| | id | M |
| aiMode | el | M |
| | | See conditions for EntityRef at aiContractSpecification |
| related | dParty | М |
| | | Array of RelatedParty |
| | @referredType | М |
| | id | М |
| templa | ate (if present) | |
| | id | M |
| charac | cteristic (if present) | Array of Characteristic |
| | name | М |
| , | value | M |
| rule (if | present) | |
| | @type | М |



| Mano | datory attribute when parent is present | Rule |
|------|---|--------------------------|
| | href | M (in response messages) |
| | id | M (in response messages) |
| | name | М |

AIMODEL RESOURCE MANDATORY ATTRIBUTES

| Mandatory attribute when parent is present | Rule |
|---|---------------------------------------|
| href | M (in response messages) |
| id | M (in response messages) |
| state | М |
| software | М |
| | Array of SoftwareRef |
| id | М |
| aiModelSpecification | М |
| href | M (in response messages) |
| id | M (in response messages) |
| name | М |
| aiModelSpecification.constraint (if present) | Array of ConstraintRef |
| id | М |
| aiModelSpecification.resourceSpecification (if present) | Array of ResourceSpecificationRef |
| id | М |
| aiModelSpecification.serviceLevelSpecification (if present) | Array of ServiceLevelSpecificationRef |
| id | М |
| aiModelSpecification.serviceSpecRelationship (if present) | Array of ServiceSpecRelationship |
| relationshipType | М |



| Mandatory attribute when parent is present | Rule |
|--|---|
| aiModelSpecification.entitySpecRelationship (if present) | Array of EntitySpecificationRelationship |
| relationshipType | М |
| aiModelSpecification.entitySpecRelationship.associationSpec (if present) | |
| id | М |
| aiModelSpecification.relatedParty (if present) | Array of RelatedParty |
| @referredType | М |
| id | М |
| aiModelSpecification.targetEntitySchema (if present) | |
| @schemaLocation | М |
| @type | М |
| aiModelSpecification.featureSpecification.constraint (if present) | Array of ConstraintRef |
| | See conditions for ConstraintRef at aiModelSpecification.constraint |
| aiModelSpecification.featureSpecification.featureSpecCharacteri stic (if present) | Array of FeatureSpecificationCharacterist ic |
| name | M |
| aiModelSpecification.featureSpecification.featureSpecRelationsh ip (if present) | Array of FeatureSpecificationRelationshi p |
| name | М |
| relationshipType | М |
| gpu (if present) | |
| id | М |
| place (if present) | Array of RelatedPlaceRefOrValue |
| role | М |



| Mandatory attribute when parent is present | Rule |
|--|---|
| relatedEntity (if present) | Array of RelatedEntityRefOrValue |
| role | М |
| serviceSpecification (if present) | |
| id | М |
| supportingResource (if present) | Array of ResourceRef |
| | See conditions for ResourceRef at gpu |
| trainingData (if present) | |
| id | М |
| relatedParty (if present) | Array of RelatedParty |
| | See conditions for RelatedParty at aiModelSpecification.relatedPart y |
| serviceCharacteristic (if present) | Array of Characteristic |
| name | М |
| value | М |
| feature (if present) | Array of Feature |
| name | М |
| featureCharacteristic | М |
| | Array of Characteristic |
| | See conditions for Characteristic at serviceCharacteristic |
| feature.featureRelationship (if present) | Array of FeatureRelationship |
| name | M |
| relationshipType | М |
| serviceRelationship (if present) | Array of ServiceRelationship |
| relationshipType | М |



| Mandatory attribute when parent is present | Rule |
|--|--|
| serviceRelationship.service.place (if present) | Array of RelatedPlaceRefOrValue |
| | See conditions for RelatedPlaceRefOrValue at place |
| serviceRelationship.service.relatedEntity (if present) | Array of RelatedEntityRefOrValue |
| | See conditions for RelatedEntityRefOrValue at relatedEntity |
| serviceRelationship.service.serviceSpecification (if present) | See conditions for ServiceSpecificationRef at serviceSpecification |
| serviceRelationship.service.feature (if present) | Array of Feature |
| | See conditions for Feature at feature |
| serviceRelationship.service.feature.featureRelationship (if present) | Array of FeatureRelationship |
| present) | See conditions for |
| | FeatureRelationship at |
| | feature.featureRelationship |
| supportingService.serviceRelationship (if present) | Array of ServiceRelationship |
| | See conditions for |
| | ServiceRelationship at |
| | serviceRelationship |

RULE RESOURCE MANDATORY ATTRIBUTES

| Mandatory attribute when parent is present | Rule |
|--|--------------------------|
| @type | M |
| href | M (in response messages) |
| id | M (in response messages) |
| name | М |



API OPERATIONS CONFORMANCE

For every single resource the following tables includes mandatory operations.

ALARM MANDATORY OPERATIONS

The following table indicates which ones are mandatory for the Alarm resource:

| Jniform API Operation | |
|-----------------------|--|
| GET | |
| POST | |
| PATCH | |

AICONTRACTSPECIFICATION MANDATORY OPERATIONS

The following table indicates which ones are mandatory for the AiContractSpecification resource:

| Uniform API Operation | |
|-----------------------|--|
| GET | |
| POST | |

AICONTRACTVIOLATION MANDATORY OPERATIONS

The following table indicates which ones are mandatory for the AiContractViolation resource:

| Uniform API Operation |
|-----------------------|
| GET |
| POST |

AIMODELSPECIFICATION MANDATORY OPERATIONS

The following table indicates which ones are mandatory for the AiModelSpecification resource:

| Uniform API Operation | |
|-----------------------|--|
| GET | |
| POST | |



AICONTRACT MANDATORY OPERATIONS

The following table indicates which ones are mandatory for the AiContract resource:

| Uniform API Operation | |
|-----------------------|--|
| GET | |
| POST | |

AIMODEL MANDATORY OPERATIONS

The following table indicates which ones are mandatory for the AiModel resource:

| Uniform API Operation | |
|-----------------------|--|
| GET | |
| POST | |

RULE MANDATORY OPERATIONS

The following table indicates which ones are mandatory for the Rule resource:

| Uniform API Operation | |
|-----------------------|--|
| GET | |
| POST | |



API GET OPERATION CONFORMANCE

All the GET operations in this API share the same status code pattern.

| GET | Mandatory/Optional |
|--|--------------------|
| Response Status Code 200 if successful | М |
| Response Status Code 404 if not found | М |

DEFINITIONS FOR FILTER

The following definitions apply to all the GET operations:

- Filtered Search: A filtered search can be applied using query parameters to obtain only the resources that meet the criteria defined by the filtering parameters included in the query request. Several elements can be applied to the filtered search. In that case logic, a logical AND is applied to combine the criteria (e.g.:?severity=<value>&status=<value>).
- Attribute selection (Limiting Response Data): In order to limit which attributes are included in the
 response, the GET request can include the ?fields= query parameter. Only those attributes whose
 names are supplied in this parameter will be returned. Attribute selection capabilities are the same
 for collections retrieval and individual resource queries.
- Level: The filtering and attribute selection can apply to the top level properties (attributes) and subproperties. The tables below show which attributes need to be supported in top-level or contained resources.

GET /ALARM?FIELDS=...&{FILTERING}

This operation list or find Alarm entities

Attribute selection is mandatory for all first level attributes except for the href attribute.

Filtering on sub-resources is optional for all compliance levels

GET /ALARM/{ID}?FIELDS=...&{FILTERING}

This operation retrieves a Alarm entity. Attribute selection is enabled for all first level attributes.

Attribute selection is mandatory for all first level attributes except for the href attribute.

Filtering on sub-resources is optional for all compliance levels

GET /AICONTRACTSPECIFICATION?FIELDS=...&{FILTERING}

This operation list or find AiContractSpecification entities

Attribute selection is mandatory for all first level attributes except for the href attribute.

Filtering on sub-resources is optional for all compliance levels



GET /AICONTRACTSPECIFICATION/{ID}?FIELDS=...&{FILTERING}

This operation retrieves a AiContractSpecification entity. Attribute selection is enabled for all first level attributes.

Attribute selection is mandatory for all first level attributes except for the href attribute.

Filtering on sub-resources is optional for all compliance levels

GET /AICONTRACTVIOLATION?FIELDS=...&{FILTERING}

This operation list or find AiContractViolation entities

Attribute selection is mandatory for all first level attributes except for the href attribute.

Filtering on sub-resources is optional for all compliance levels

GET /AICONTRACTVIOLATION/{ID}?FIELDS=...&{FILTERING}

This operation retrieves a AiContractViolation entity. Attribute selection is enabled for all first level attributes.

Attribute selection is mandatory for all first level attributes except for the href attribute.

Filtering on sub-resources is optional for all compliance levels

GET /AIMODELSPECIFICATION?FIELDS=...&{FILTERING}

This operation list or find AiModelSpecification entities

Attribute selection is mandatory for all first level attributes except for the href attribute.

Filtering on sub-resources is optional for all compliance levels

GET /AIMODELSPECIFICATION/{ID}?FIELDS=...&{FILTERING}

This operation retrieves a AiModelSpecification entity. Attribute selection is enabled for all first level attributes.

Attribute selection is mandatory for all first level attributes except for the href attribute.

Filtering on sub-resources is optional for all compliance levels

GET /AICONTRACT?FIELDS=...&{FILTERING}

This operation list or find AiContract entities

Attribute selection is mandatory for all first level attributes except for the href attribute.

Filtering on sub-resources is optional for all compliance levels



GET /AICONTRACT/{ID}?FIELDS=...&{FILTERING}

This operation retrieves a AiContract entity. Attribute selection is enabled for all first level attributes.

Attribute selection is mandatory for all first level attributes except for the href attribute.

Filtering on sub-resources is optional for all compliance levels

GET /AIMODEL?FIELDS=...&{FILTERING}

This operation list or find AiModel entities

Attribute selection is mandatory for all first level attributes except for the href attribute.

Filtering on sub-resources is optional for all compliance levels

GET /AIMODEL/{ID}?FIELDS=...&{FILTERING}

This operation retrieves a AiModel entity. Attribute selection is enabled for all first level attributes.

Attribute selection is mandatory for all first level attributes except for the href attribute.

Filtering on sub-resources is optional for all compliance levels

GET /RULE?FIELDS=...&{FILTERING}

This operation list or find Rule entities

Attribute selection is mandatory for all first level attributes except for the href attribute.

Filtering on sub-resources is optional for all compliance levels

GET /RULE/{ID}?FIELDS=...&{FILTERING}

This operation retrieves a Rule entity. Attribute selection is enabled for all first level attributes.

Attribute selection is mandatory for all first level attributes except for the href attribute.

Filtering on sub-resources is optional for all compliance levels



API POST OPERATION CONFORMANCE

All the POST operations in this API share the same status code pattern.

| POST | Mandatory/Optional |
|-------------------------------------|--------------------|
| Status Code 201 if resource created | М |

POST /ALARM

This operation creates a Alarm entity.

The following table provides the list of mandatory attributes when creating an instance of the Alarm resource, including any possible rule, conditions and applicable default values.

| Mandatory Attributes | Rule |
|----------------------|------|
| alarmRaisedTime | |
| alarmType | |
| alarmedObject | |
| perceivedSeverity | |
| probableCause | |
| sourceSystemId | |
| state | |

POST /AICONTRACTSPECIFICATION

This operation creates a AiContractSpecification entity.

The following table provides the list of mandatory attributes when creating an instance of the AiContractSpecification resource, including any possible rule, conditions and applicable default values.

| Mandatory Attributes | Rule |
|----------------------|------|
| name | |

POST /AICONTRACTVIOLATION

This operation creates a AiContractViolation entity.



The following table provides the list of mandatory attributes when creating an instance of the AiContractViolation resource, including any possible rule, conditions and applicable default values.

| Mandatory Attributes | Rule |
|--------------------------|------|
| aiContract | |
| aiContract.id | |
| violation | |
| violation.actualValue | |
| violation.consequence | |
| violation.operator | |
| violation.referenceValue | |

POST / AIMODELS PECIFICATION

This operation creates a AiModelSpecification entity.

The following table provides the list of mandatory attributes when creating an instance of the AiModelSpecification resource, including any possible rule, conditions and applicable default values.

| Mandatory | Attributes | Rule |
|-----------|------------|------|
| name | | |

POST /AICONTRACT

This operation creates a AiContract entity.

The following table provides the list of mandatory attributes when creating an instance of the AiContract resource, including any possible rule, conditions and applicable default values.

| Mandatory Attributes | Rule |
|----------------------------|------|
| aiContractSpecification | |
| aiContractSpecification.id | |
| aiModel | |
| aiModel.id | |
| relatedParty | |
| relatedParty.@referredType | |



| Mandatory Attributes | Rule |
|----------------------|------|
| relatedParty.id | |
| state | |

POST /AIMODEL

This operation creates a AiModel entity.

The following table provides the list of mandatory attributes when creating an instance of the AiModel resource, including any possible rule, conditions and applicable default values.

| Mandatory Attributes | Rule |
|---------------------------|------|
| aiModelSpecification | |
| aiModelSpecification.href | |
| aiModelSpecification.id | |
| aiModelSpecification.name | |
| software | |
| software.id | |
| state | |

POST /RULE

This operation creates a Rule entity.

The following table provides the list of mandatory attributes when creating an instance of the Rule resource, including any possible rule, conditions and applicable default values.

| Mandatory Attributes | Rule |
|----------------------|------|
| @type | |
| name | |



API PATCH OPERATION CONFORMANCE

All the PATCH operations in this API share the same status code pattern.

The mandatory application context is JSON Merge.

| PATCH | Mandatory/Optional |
|--------------------------------------|--------------------|
| Status Code 200 if resource modified | М |

PATCH /ALARM/{ID}

This operation updates partially a Alarm entity.

| Patchable Attributes | Rule |
|----------------------|------|
| alarmType | |
| perceivedSeverity | |
| probableCause | |
| state | |

PATCH /AICONTRACTSPECIFICATION/{ID}

This operation updates partially a AiContractSpecification entity.

| Patchable Attributes | Rule |
|----------------------|------|
| name | |

PATCH /AIMODELSPECIFICATION/{ID}

This operation updates partially a AiModelSpecification entity.

| Patchable Attributes | Rule |
|----------------------|------|
| name | |

PATCH /AICONTRACT/{ID}

This operation updates partially a AiContract entity.



| Patchable Attributes | Rule |
|----------------------|------|
| state | |

PATCH /AIMODEL/{ID}

This operation updates partially a AiModel entity.

| Patchable Attributes | Rule |
|----------------------|------|
| state | |

PATCH /RULE/{ID}

This operation updates partially a Rule entity.

| Patchable Attributes | Rule |
|----------------------|------|
| @type | |
| name | |



ACKNOWLEDGEMENTS

RELEASE HISTORY

| Release Status | Date | Release led by: | Description |
|-------------------|-------------|--|---------------------------|
| Pre-production | 31-Jul-2020 | Pierre Gauthier – TM Forum Henrique Rodrigues – TM Forum Tayeb Ben Meriem - Orange | First release of document |
| | | | |

VERSION HISTORY

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