# TM Forum Specification

# Incident
# Conformance Profile

**TMF724B**

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# NOTICE

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# 1. Introduction – API description

This text is a replacement of the ${conformance.variables.intro} template variable used in the template in this location.

Multiple lines can be added as needed.

See https://yaml-multiline.info/ for details on how to format multi-line text with YAML.

# 2. Resource Model Conformance

## 2.1.    API Mandatory Resources

The following table indicates the mandatory resources for this API.

| Resource Name | Comment |
|---|---|
| Incident | |
| DiagnoseIncident | |
| ResolveIncident | |

## 2.2.  General Notes on Resource Attribute Conformance

There are three situations that could occur for an attribute:

- o   Mandatory attribute,
- o   Mandatory attribute if the optional parent attribute is present,
- o   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.

## 2.3. Incident Resource Mandatory Attributes

| Mandatory attribute when parent is present | Rule |
|---|---|
| ackState | M |
| category | M |
| domain | M |
| href | M (in response messages) |
| id | M (in response messages) |
| name | M |
| occurTime | M |
| priority | M |
| sourceObject | M<br><br>Array of ResourceEntity |
| state | M |
| affectedEntity (if present) | Array of EntityRef |
| id | M |
| externalIdentifier (if present) | Array of ExternalIdentifier |
| id | M |
| rootCause (if present) | Array of RootCause |
| location | M |
| extensionInfo (if present) | Array of Characteristic |
| name | M |
| value | M |

## 2.4. DiagnoseIncident Resource Mandatory Attributes

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

| Mandatory attribute when parent is present | | Rule |
|---|---|---|
| | id | M |

## 2.5.    ResolveIncident Resource Mandatory Attributes

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

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# 3. API Operations Conformance

For every single resource the following tables includes mandatory operations.

## 3.1. Incident Mandatory Operations

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

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

## 3.2. DiagnoseIncident Mandatory Operations

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

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

## 3.3. ResolveIncident Mandatory Operations

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

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

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# 4. 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 | M |
| Response Status Code 404 if not found | M |

## 4.1. 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.

## 4.2. GET /incident?fields=...&{filtering}

This operation list or find Incident 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

## 4.3. GET /incident/{id}?fields=...&{filtering}

This operation retrieves a Incident 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

## 4.4. GET /diagnoseIncident?fields=...&{filtering}

This operation list or find DiagnoseIncident 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

## 4.5. GET /diagnoseIncident/{id}?fields=...&{filtering}

This operation retrieves a DiagnoseIncident 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

## 4.6. GET /resolveIncident?fields=...&{filtering}

This operation list or find ResolveIncident 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

## 4.7. GET /resolveIncident/{id}?fields=...&{filtering}

This operation retrieves a ResolveIncident 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

# 5. 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 | M |

## 5.1. POST /incident

This operation creates a Incident entity.

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

| Mandatory Attributes | Rule |
|---|---|
| ackState | |
| category | |
| domain | |
| name | |
| occurTime | |
| priority | |
| sourceObject | |
| state | |

## 5.2. POST /diagnoseIncident

This operation creates a DiagnoseIncident entity.

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

| Mandatory Attributes | Rule |
|---|---|
| incident | |
| incident.id | |

## 5.3. POST /resolveIncident

This operation creates a ResolveIncident entity.

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

| Mandatory Attributes | Rule |
|---|---|
| incident | |
| incident.id | |

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# 6. Administrative Appendix

## 6.1.    Document History

### 6.1.1. Version History

| Version Number | Date Modified | Modified by: | Description of changes |
|----------------|---------------|--------------|------------------------|
|                |               |              |                        |
|                |               |              |                        |

### 6.1.2. Release History

| Release Status | Date Modified | Modified by: | Description of changes |
|----------------|---------------|--------------|------------------------|
|                |               |              |                        |
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## 6.2.    Acknowledgements

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