

TM Forum Specification

Incident Conformance Profile

TMF724B

Team Approved Date: 10/03/20232

Release Status: Released	Approval Status: Team Approved
Version 4.0.1	IPR Mode: RAND

NOTICE

Copyright © TM Forum 2023. All Rights Reserved.

This document and translations of it may be copied and furnished to others, and derivative works that comment on or otherwise explain it or assist in its implementation may be prepared, copied, published, and distributed, in whole or in part, without restriction of any kind, provided that the above copyright notice and this section are included on all such copies and derivative works. However, this document itself may not be modified in any way, including by removing the copyright notice or references to TM FORUM, except as needed for the purpose of developing any document or deliverable produced by a TM FORUM Collaboration Project Team (in which case the rules applicable to copyrights, as set forth in the [TM FORUM IPR Policy](#), must be followed) or as required to translate it into languages other than English.

The limited permissions granted above are perpetual and will not be revoked by TM FORUM or its successors or assigns.

This document and the information contained herein is provided on an “AS IS” basis and TM FORUM DISCLAIMS ALL WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY WARRANTY THAT THE USE OF THE INFORMATION HEREIN WILL NOT INFRINGE ANY OWNERSHIP RIGHTS OR ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

TM FORUM invites any TM FORUM Member or any other party that believes it has patent claims that would necessarily be infringed by implementations of this TM Forum Standards Final Deliverable, to notify the TM FORUM Team Administrator and provide an indication of its willingness to grant patent licenses to such patent claims in a manner consistent with the IPR Mode of the TM FORUM Collaboration Project Team that produced this deliverable.

The TM FORUM invites any party to contact the TM FORUM Team Administrator if it is aware of a claim of ownership of any patent claims that would necessarily be infringed by implementations of this TM FORUM Standards Final Deliverable by a patent holder that is not willing to provide a license to such patent claims in a manner consistent with the IPR Mode of the TM FORUM Collaboration Project Team that produced this TM FORUM Standards Final Deliverable. TM FORUM may include such claims on its website but disclaims any obligation to do so.

TM FORUM takes no position regarding the validity or scope of any intellectual property or other rights that might be claimed to pertain to the implementation or use of the technology described in this TM FORUM Standards Final Deliverable or the extent to which any license under such rights might or might not be available; neither does it represent that it has made any effort to identify any such rights. Information on TM FORUM's procedures with respect to rights in any document or deliverable produced by a TM FORUM Collaboration Project Team can be found on the TM FORUM website. Copies of claims of rights made available for publication and any assurances of licenses to be made available, or the result of an attempt made to obtain a general license or permission for the use of such proprietary rights by implementers or users of this TM FORUM Standards Final Deliverable, can be obtained from the TM FORUM Team Administrator. TM FORUM makes no representation that any information or list of intellectual property rights will at any time be complete, or that any claims in such list are, in fact, Essential Claims.

Direct inquiries to the TM Forum office:

181 New Road, Suite 304
Parsippany, NJ 07054, USA
Tel No. +1 862 227 1648
TM Forum Web Page: www.tmforum.org

Table of Contents

NOTICE	2
Table of Contents	4
1. Introduction – API description	5
2. Resource Model Conformance	6
2.1. API Mandatory Resources.....	6
2.2. General Notes on Resource Attribute Conformance.....	6
2.3. Incident Resource Mandatory Attributes	7
2.4. DiagnoseIncident Resource Mandatory Attributes	7
2.5. ResolveIncident Resource Mandatory Attributes	8
3. API Operations Conformance	9
3.1. Incident Mandatory Operations	9
3.2. DiagnoseIncident Mandatory Operations	9
3.3. ResolveIncident Mandatory Operations.....	9
4. API Get Operation Conformance	10
4.1. Definitions for Filter	10
4.2. GET /incident?fields=...&{filtering}.....	10
4.3. GET /incident/{id}?fields=...&{filtering}.....	10
4.4. GET /diagnoseIncident?fields=...&{filtering}	10
4.5. GET /diagnoseIncident/{id}?fields=...&{filtering}	10
4.6. GET /resolveIncident?fields=...&{filtering}	11
4.7. GET /resolveIncident/{id}?fields=...&{filtering}	11
5. API Post Operation Conformance.....	12
5.1. POST /incident	12
5.2. POST /diagnoseIncident.....	12
5.3. POST /resolveIncident	12
6. Administrative Appendix	14
6.1. Document History.....	14
6.1.1. Version History	14
6.1.2. Release History	14
6.2. Acknowledgements	14

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:

- Mandatory attribute,
 - 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.

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 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

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

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.

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	

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

6.2. Acknowledgements

- ..
- ..