ATT&CKTM Navigator Layer File Format Definition

This document describes **Version 1.2** of the MITRE ATT&CK Navigator Layer file format. The ATT&CK Navigator stores layers as JSON, therefore this document defines the JSON properties in a layer file.

Property Table

Name	Type	Required?	Default Value (if not present)	Description
version	String	Yes	n/a	Must be "1.1"
name	String	Yes	n/a	The name of the layer
description	String	No	""	A free-form text field that describes the contents or intent of the layer
domain	String	Yes	n/a	Technology domain that this layer represents. Valid values are: "mitre-enterprise" or "mitre-mobile"
filters	Filter object	No		See Filter object definition below

Name	Type	Required?	Default Value (if not present)	Description
sorting	Number	No	0	Specifies the ordering of the techniques within each tactic category as follows: **0**: sort ascending alphabetically by technique name **1**: sort descending alphabetically by technique name **2**: sort ascending by technique score **3**: sort descending by technique score

Name	Type	Required?	Default Value (if not present)	Description
viewMode	Number	No	0	Specifies the view mode for the layer as follows: **0**: display the full table with tactic and technique names **1**: display compact table with abbreviated tactic and technique names **2**: display mini table with no text with the exception of tooltips

Name	Type	Required?	Default Value (if not present)	Description
hideDisabled	Boolean	No	false	Specifies whether techniques that have been disabled are still displayed (greyed-out) or omitted from the view as follows: **true**: omit techniques marked as disabled from the view **false**: include disabled techniques in the view but display as greyed-out
techniques	Array of Technique objects	No		See definition of Technique object below
gradient	Gradient object	No	Red to Green, minValue=0, maxValue=100	See definition of Gradient object below
legendItems	Array of LegendItem objects	no		See definition of LegendItem object below

Filter Object Properties

Name	Type	Required?	Default Value (if not present)	Description
stages	Array of String	No	[“act”]	Specifies the logical stages of the attack lifecycle to display. Valid choices are: “prepare” and “act”. Array must contain at least one of these values.
platforms	Array of String	No	All platforms defined within domain	Specifies the platforms within the technology domain – only those techniques tagged with these platforms are to be displayed. Valid values are as follows: **domain=mitre-enterprise**: “windows”, “linux”, “mac” **domain=mitre-mobile**: “android”, “ios”

Technique Object properties

Name	Type	Required?	Default Value (if not present)	Description
techniqueID	String	Yes	n/a	Unique identifier of the ATT&CK technique, e.g. “T####”
comment	String	No	“”	Free-text field
enabled	Boolean	No	true	Specifies if the technique is considered enabled or disabled in this layer
score	Number	No	(unscored)	Optional numeric score assigned to this technique in the layer. If omitted, the technique is considered to be “unscored” meaning that it will not be assigned a color from the gradient by the Navigator.

Name	Type	Required?	Default Value (if not present)	Description
color	String	No	“”	Explicit color value assigned to the technique in this layer. Note that explicitly defined color overrides any color implied by the score – the Navigator will display the technique using the explicitly defined color.

Gradient Object properties

Name	Type	Required?	Default Value (if not present)	Description
colors	Array of String	Yes	n/a	Specifies the hexadecimal RGB color values that constitute the color spectrum in use. The array must contain at least two (2) values, corresponding to the minValue and maxValue scores.

Name	Type	Required?	Default Value (if not present)	Description
minValue	Number	Yes	n/a	Lower bound score of the gradient
maxValue	Number	Yes	n/a	Upper bound score of the gradient. *Note: maxValue must be > minValue*

LegendItem Object properties

Name	Type	Required?	Default Value (if not present)	Description
label	String	Yes	n/a	The name of the legend item
color	String	Yes	n/a	The color of the legend item

Example

The following example illustrates the layer file format:

```
{
    "version": "1.1",
    "name": "example",
    "description": "hello, world",
    "domain": "mitre-enterprise",
    "filters": {
        "stages": ["act"],
        "platforms": ["windows"],
    },
    "sorting": 2,
    "techniques": [
        {
            "techniqueID": "T1156",
            "enabled": false,
            "comment": "disabled technique with a comment"
        },
        {
            "techniqueID": "T1103",
```

```
            "score": 50
        },
        {
            "color": "#FF00FF",
            "techniqueID": "T1015",
        },
    ]
}
```