**Example - Create a new object type**

This is an example of a new SDO object type being created with the STIX Extension mechanism.

{

"id": "extension-definition--a932fcc6-e032-176c-126f-cb970a5a1fff",

"type": "extension-definition",

"spec\_version": "2.1",

"name": "New SDO 1",

"description": "This schema creates a new object type called my-favorite-sdo-1",

"created": "2014-02-20T09:16:08.989000Z",  
 "modified": "2014-02-20T09:16:08.989000Z",  
 "created\_by\_ref": "identity--11b76a96-5d2b-45e0-8a5a-f6994f370731",

"schema": "https://www.example.com/schema-my-favorite-sdo-1/v1/",

"version": "1.2.1",

"extension\_types": [ "new-sdo" ]

},

{  
 "type": "my-favorite-sdo",  
 "spec\_version": "2.1",

"id": "my-favorite-sdo--a932fcc6-e032-176c-126f-cb970a5a1ade",  
 "created": "2014-02-20T09:16:08.989000Z",  
 "modified": "2014-02-20T09:16:08.989000Z",  
 "name": "This is the name of my favorite",

"some\_property\_name1": "value1",  
 "some\_property\_name2": "value2",

"extensions": {

" extension-definition--a932fcc6-e032-176c-126f-cb970a5a1fff " : {

"extension\_type" : "new\_sdo"

}

}

}

**Example - Adding properties to an existing STIX object instance**

This example adds the properties **rank** and **toxicity** to the indicator object.

{

"id": "extension-definition--d83fce45-ef58-4c6c-a3f4-1fbc32e98c6e",

"type": "extension-definition",

"spec\_version": "2.1",

"name": "Extension Foo 1",

"description": "This schema adds two properties to a STIX object",

"created": "2014-02-20T09:16:08.989000Z",  
 "modified": "2014-02-20T09:16:08.989000Z",  
 "created\_by\_ref": "identity--11b76a96-5d2b-45e0-8a5a-f6994f370731",

"schema": "https://www.example.com/schema-foo-1/v1/",

"version": "1.2.1",

"extension\_types": [ "property-extension" ]

},

{  
 "type": "indicator",  
 "spec\_version": "2.1",

"id": "indicator--e97bfccf-8970-4a3c-9cd1-5b5b97ed5d0c",

"created": "2014-02-20T09:16:08.989000Z",

"modified": "2014-02-20T09:16:08.989000Z",  
 "name": "File hash for Poison Ivy variant",  
 "description": "This file hash indicates that a sample of Poison Ivy is present.",  
 "labels": [  
 "malicious-activity"  
 ],  
 "pattern": "[file:hashes.'SHA-256' = 'ef537f25c895bfa782526529a9b63d97aa631564d5d789c2b765448c8635fb6c']",  
 "valid\_from": "2014-02-20T09:00:00.000000Z",

"extensions": {

"extension-definition--d83fce45-ef58-4c6c-a3f4-1fbc32e98c6e" : {

"extension\_type": "property-extension",

"rank": 5,

"toxicity": 8

}

}

}

**Adding properties at the top-level to an existing STIX object instance**

NOTE: There is an example above using the preferred way, property-extension, of adding properties to an object.

This example is similar to the previous example, but uses the toplevel\_property\_extension to add the properties **rank** and **toxicity** to a STIX object.

{

"id": "extension-definition--71736db5-10db-43d3-b0e3-65cf81601fe1",

"type": "extension-definition",

"spec\_version": "2.1",

"name": "Extension Foo 1a",

"description": "This schema adds two properties to a STIX object at the toplevel",

"created": "2014-02-20T09:16:08.989000Z",  
 "modified": "2014-02-20T09:16:08.989000Z",  
 "created\_by\_ref": "identity--11b76a96-5d2b-45e0-8a5a-f6994f370731",

"schema": "https://www.example.com/schema-foo-1a/v1/",

"version": "1.2.1",

"extension\_types": [ "toplevel-property-extension" ],

"extension\_properties" : [

"toxicity",

"rank"

]

},

{  
 "type": "indicator",  
 "spec\_version": "2.1",

"id": "indicator--66a63e16-92d7-4b2f-bd3d-21540d6b3fc7",  
 "created": "2014-02-20T09:16:08.989000Z",  
 "modified": "2014-02-20T09:16:08.989000Z",  
 "name": "File hash for Poison Ivy variant",  
 "description": "This file hash indicates that a sample of Poison Ivy is present.",  
 "labels": [  
 "malicious-activity"  
 ],  
 "pattern": "[file:hashes.'SHA-256' = 'ef537f25c895bfa782526529a9b63d97aa631564d5d789c2b765448c8635fb6c']",

"pattern\_type": "stix",  
 "valid\_from": "2014-02-20T09:00:00.000000Z",

"rank": 1,

"toxicity": 2,

"extensions": {

" extension-definition--71736db5-10db-43d3-b0e3-65cf81601fe1" : {

"extension\_type": "toplevel-property-extension",

}

}

}

**Example - Adding two new STIX objects and properties to an existing STIX object instance**

In this example, the extension introduces a new SDO, SCO, and some properties to be added to the indicator object.

{

"id": "extension-definition--a932fcc6-e032-176c-126f-cb970a5a1fff",

"type": "extension-definition",

"spec\_version": "2.1",

"name": "Extension My Favorite SDO and Sub-Comp",

"description": "This schema adds a new object my-favorite-sdo and some sub-component to existing objects",

"created\_by": "identity--uuid1",

"schema": "https://www.example.com/schema-newobj-subcomp/v1/schema.json",

"version": "1.2.1",

"extension\_types": [ "new-sdo", "new-sco", "property-extension" ]

},

{  
 "type": "my-favorite-sdo",  
 "spec\_version": "2.1",

"id": "my-favorite-sdo--a932fcc6-e032-176c-126f-cb970a5a1ade",  
 "created": "2014-02-20T09:16:08.989000Z",  
 "modified": "2014-02-20T09:16:08.989000Z",  
 "name": "This is the name of my favorite",

"some\_field": "value",  
 "extensions": {

"extension-definition--a932fcc6-e032-176c-126f-cb970a5a1fff" : {

"extension\_type": "new-sdo",

}

}

},

{  
 "type": "my-favorite-sco",  
 "spec\_version": "2.1",

"id": "my-favorite-sco--f9dbe89c-0030-4a9d-8b78-0dcd0a0de874",  
 "name": "This is the name of my favorite SCO",

"some\_network\_protocol\_field": "value",  
 "extensions": {

"extension-definition--a932fcc6-e032-176c-126f-cb970a5a1fff" : {

"extension\_type": "new-sco",

}

}

},

{  
 "type": "indicator",  
 "spec\_version": "2.1",

"id": "indicator--a932fcc6-e032-176c-126f-cb970a5a1ade",  
 "created": "2014-02-20T09:16:08.989000Z",  
 "modified": "2014-02-20T09:16:08.989000Z",  
 "name": "File hash for Poison Ivy variant",  
 "description": "This file hash indicates that a sample of Poison Ivy is present.",  
 "labels": [  
 "malicious-activity"  
 ],  
 "pattern": "[file:hashes.'SHA-256' = 'ef537f25c895bfa782526529a9b63d97aa631564d5d789c2b765448c8635fb6c']",

"pattern\_type": "stix",  
 "valid\_from": "2014-02-20T09:00:00.000000Z",

"extensions": {

"extension-definition--a932fcc6-e032-176c-126f-cb970a5a1fff" : {

"extension\_type": "property\_extension",

"rank" : 5,

"toxicity": 8

}

}

}