

# CWE REST API Endpoint & Query Strawman

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# Summary Information

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- [api.cwe.mitre.org/v1/](https://api.cwe.mitre.org/v1/)
  - Return JSON with information about supported current Content&XML Schema version, including dates
  - Return list of endpoints
- [api.cwe.mitre.org/v1/version/{ver}/content-schema](https://api.cwe.mitre.org/v1/version/{ver}/content-schema)
  - Returns JSON schema for content at version {ver}
  - Can be used to determine list of acceptable values for a fields
  - version can be latest - may want to discourage doing so without filtering
- **Additional param such as {lastRequestDate} for all queries to support delta downloads**



# GET Collection of CWEs

- `api.cwe.mitre.org/view/{view}?{searchTerm}={value1|value2}&{filter}={elems}`
  - Parameters are optional
  - Should passing no view be equivalent to "all" or "Research" view?
  - 1000 covers all weaknesses and no categories, or views.
  - 2000 covers all all === XML.zip

```
4      <Weakness ID="346" Name="Origin Validation Error" Abstraction="Base"
Structure="Simple" Status="Draft">
5      <Description>The software does not properly verify that the source of data or
communication is valid.</Description>
6      <Related_Weaknesses>
7      <Related_Weakness Nature="ChildOf" CWE_ID="345" View_ID="1000"
Ordinal="Primary"/>
8      <Related_Weakness Nature="ChildOf" CWE_ID="345" View_ID="1003"
Ordinal="Primary"/>
9      <Related_Weakness Nature="ChildOf" CWE_ID="284" View_ID="1000"/>
```

# GET Collection of CWEs by parent

- `api.cwe.mitre.org/tree/{view}/{ID}?{searchTerm}={value1|value2}&{filter}={elems}`
  - Parameters are optional
  - Should passing no view be equivalent to "all" or "Research" view?
  - 1000 covers all weaknesses and no categories, or views.
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```
4      <Weakness ID="346" Name="Origin Validation Error" Abstraction="Base"
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Ordinal="Primary"/>
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```



# CWE Get by parent - Graph

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- `api.cwe.mitre.org/graph/{view}/{ID}?{searchTerm}={value1|value2}&{filter}={elems}`



# GET Single CWE

- **api.cwe.mitre.org/v1/{ver}/id/{CWE-ID}?{filter}={elements\_needed}**
  - Returns content in JSON
  - filtering would be on top level non mandatory elements needed, i.e. filter=Description|Observed\_Examples|...
  - filter=None possible as well
- Be more explicit about association between {vars} and their variable name



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- **Wait on Alec for voting & board choices**

