

The .q3d file format is a method of storing query definitions as XML, ensuring that they are both human- and machine-readable. Inspect3D allows users to save query definitions from the ]] **Advanced_Query_SectionGroup Definition** dialog. Previously-saved query definitions can be loaded and applied to the CMO library to populate groups in the Group Definition dialog or from the Group Definitions drop-down menu's I3DOpenGroupDef.png}} **Load Group Def & Compute Groups** option.

Format

As an XML document, a .q3d file is made up of hierarchical elements that are demarcated by tags, indicated by the < and > characters. An element consists of a start tag, <elementname>, and end tag, </elementname>, and all of the characters in between. Alternatively, an element can be defined by a single tag, <elementname />.

Tags can also contain attributes in the *name="value"* format, further describing the associated element.

1. The top-level element in a .q3d file is *queries*. It contains an arbitrary (1-n) number of *query* elements.
2. The second-level element in a .q3d file is *query*. A *query* element has a *name* attribute (the corresponding group's name) and contains an arbitrary (1-n) number of *Definition* elements.
3. The bottom-level element in a .q3d file is *Definition*. A *Definition* element consists of a single tag and encodes a single sub-group via a number of attributes.

DTD

Formally, a .q3d file respects the Document Type Definition (DTD):

```
<!DOCTYPE queries [
  <!ELEMENT queries query+>
  <!ENTITY query Definition+>
  <!ATTLIST query
    name CDATA #REQUIRED
  >
  <!ENTITY Definition>
  <!ATTLIST Definition
    condition CDATA #REQUIRED
    query CDATA #REQUIRED
    workspace CDATA #REQUIRED
    type CDATA #REQUIRED
    folder CDATA #REQUIRED
    name CDATA #REQUIRED
    component CDATA #REQUIRED
    max_elements CDATA #REQUIRED
    negate_result CDATA #REQUIRED
    events CDATA #REQUIRED
```

```
exclude_events CDATA #REQUIRED
has_tag_ref CDATA #REQUIRED
tag_logic CDATA #REQUIRED
tag CDATA #REQUIRED
has_subject_ref CDATA #REQUIRED
subject CDATA #REQUIRED
normalize_info CDATA #REQUIRED
>
]>
```

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