

Q3D_Query_File

The .q3d file format is an 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  **Group 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  **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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