

get_modifier_code_info

The **get_modifier_code_info** message provides information needed to populate a tree node for a given search keyword. This message requires the user to pass a string that is queried against the `_C_BASECODE_` column.

Return Name / Information Associated with a Code

To generate a list of base tree nodes or a list of names associated with a given keyword, the sequence of events is as follows:

1. A client requests modifier(s) associated with a concept. These modifiers are specified as a basecode containing a given keyword.
2. The ONT server performs the following steps:
 - a. Parses `<sel/>` to obtain the table key and path. Queries the table of tables to confirm that the user / role can access the table that is referenced by the table key that is passed in. If not, the client receives an error message with the code "TABLE_ACCESS_DENIED"
 - b. If max is set, query the database for the number of entries that meet the search criteria.
 - c. If count <max or no max is set, query the database for entries that meet the search criteria.
 - d. If count > max send an error message back.
1. The client generates a list of modifiers that match the search criteria.
2. The client receives an error message with the code "MAX_EXCEEDED" and displays a dialog asking if the user wants to see all nodes. If no – done. If yes – client sends another message with max empty.

get_modifier_code_info Request Message

A **get_modifier_code_info** message implies that the user is passing a *code* and wants the associated modifier information about that code returned. The attributes provide information about the results to be returned. The `hiddens` and `synonyms` attributes tell us whether to return hiddens and synonyms. By default `hiddens` and `synonyms` are false, so if they are left out it will be false. The `type` tells which columns to select (default / core / all). By default, the `type` is set to default so you don't have to include it if you want the default set of columns returned. Each message will interpret the default to be a different set of columns. The default set of columns for **get_modifier_code_info** consists of name only.

- If **type = limited**, then all columns except the blob, the system / date information, and the related dimension table information will be returned.
- If **type = core**, then all columns except the blob and the system / date information will be returned.
- If **type = all**, then all columns except the blob are returned.

The *blob attribute* indicates whether or not to return the blob along with the default / core / all return columns.

Example:

```
<message_body>
<get_modifier_code_info blob="true" type="limited" max="200" synonyms="true" hiddens="false">
<match_str strategy="exact">SNO:255604002</match_str>
<self>\\i2b2_DEMO\i2b2\Diagnoses\Circulatory system (390-459)\Arterial vascular disease (440-447)(444) Arterial embolism and throm~{color:#0000ff}<
/self>
</get_modifier_code_info>
</message_body>
```

Possible "type" Settings

Value	Description
default	Return only the name
limited	Return all data except the system / date and dimension information
core	Return all data except the system / date information
all	Return all data

get_modifier_code_info Response Message

The ONT request to map a code to a modifier has the following settings:
type=limited
blob=false

Response Message:

```
<message_body>  
<modifiers>  
<modifier>  
<level>1</level>  
<applied_path>i2b2\Diagnoses%</applied_path>  
<key>\\i2b2_DEMO\Severity\Mild{color:#0000ff}</key>  
<fullname>\Severity\Mild{color:#0000ff}</fullname>  
<name>Severity: Mild</name>  
<visualattributes>RA </visualattributes>  
<synonym_cd>N</synonym_cd>  
<totalnum />  
<basecode>SNO:255604002</basecode>  
<comment />  
<tooltip>Severity \ Mild</tooltip>  
</modifier>  
</modifiers>  
</message_body>
```