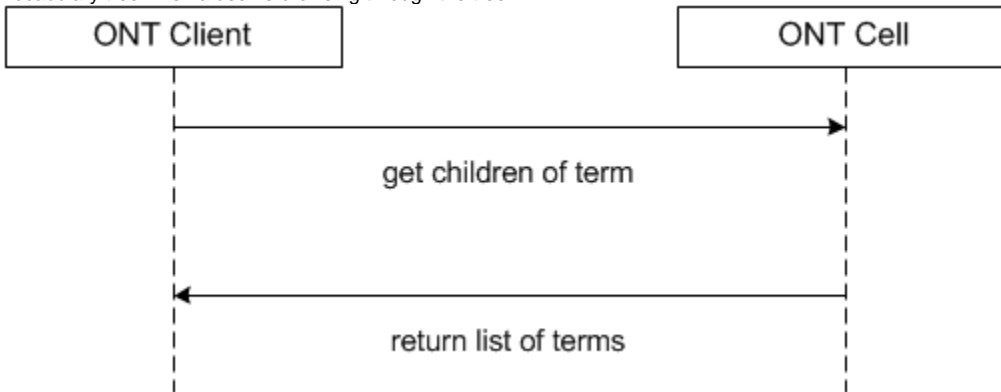


get_children

The **get_children** message returns all the children of a particular term. A client may want a list of all the children in order to expand a node of the vocabulary tree when a user is browsing through the tree.



Populating Children of Tree Nodes

The **get_children** message is used to populate tree nodes in the ontology Navigate Terms and Find Terms views. In both of these cases the table / path (root) to search are known.

The sequence of events is as follows:

1. The client sends a message with the following settings:

max = 200 (or higher)
type = core

- **Note**

The default for the "max" setting is 200. If you wish to set this default higher you can do this by adding the following parameter to the Ontology cell:

Parameter Name: ONTMAX

Parameter Value: enter a number that represents the maximum number of terms to return.

1. ONT server performs the following steps:
 - a. Parses *<parent>* to obtain the table key and path. Queries the table of tables to confirm that the user / role can access the table that is reference by the table key passed in. This call returns the table name referenced by that key. If not, return coded error. The client receives error message with code "TABLE_ACCESS_DENIED".
 - b. If max is set, the database is queried for that number of children associated with the parent passed in.
 - c. If count < max or no mas set, the database is queried for the entire list of children that meets the parent criteria.
 - d. If count > max a coded error message is sent back.
1. If no errors, the client receives a list of children and populates the tree.
2. If max exceeded, the client receives an error message with the code "MAX_EXCEEDED". A dialog box is displayed to ask if the user wants to see all nodes. If no – done. If yes – client sends another message with max=empty.

get_children Request Message

The **get_children** message implies that the user is passing a key / path for a parent and wants the children returned. The parent tag will tell the service what metadata table / path to search in and for the **get_children** message must be specified. The structure of a parent is organized as follows:
 \\table_key\path

The key (i2b2) plus the path (\RPDR\Diagnoses\Circulatory system (390-459)) is the parent:
 <parent>\\i2b2\RPDR\Diagnoses\Circulatory system (390-459)</parent>

The remaining attributes provide information about the results to be returned. If the number of rows found is greater than max, then an error message will be return in the i2b2 header. If max is left out then it is interpreted that there is no max. The **hiddens** and **synonyms** attributes tell 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 actually include it if you want the default set of columns returned. Each message will interpret "default" to be a different set of columns. **get_children's** default set of columns is set to all columns except the blob and the system / date information. If **type = core**, then all columns except the blob and the system / date information will be returned (same as "default" in this case). 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.

```
<message_body>
<get_children max="200" hiddens="true" synonyms="true" type="default" blob="false">
<parent>\\i2b2\RPDR\Diagnoses\Circulatory system (390-459)</parent>
</get_children>
</message_body>
```

Possible "hiddens" Settings

Some ontology terms exist but for various reasons are not displayed in the query tree.

Value	Description
false	Do not return data categorized as "hidden"
true	Include data categorized as "hidden"

Possible "synonyms" Settings

Some ontology terms are listed as synonyms for other terms.

Value	Description
false	Do not return data categorized as "synonym"
true	Include data categorized as "synonym"

Possible "type" Settings

Value	Description
default	Return all data except system / date information
core	Return all data except system / date information (same as default)
all	Return all data

Possible "blob" Settings

Value	Description	Example
false	Do not return data stored as a blob or clob	xml, comments
true	Return xml and comments	

get_children Response Message

The request has the following settings:

type=default

blob=true

Response Message:

```
<message_body>
<concepts>
<concept>
<level>1</level>
<key>\\i2b2\RPDR\Diagnoses\Circulatory system (390-459)\Acute Rheumatic fever (390-392)</key>
<name>Acute Rheumatic fever</name>
<synonym_cd>N</synonym_cd>
<visualattributes>FA </visualattributes>
<totalnum/>
<basecode/>
<metadataxml/>
<facttablecolumn>concept_cd</facttablecolumn>
<tablename>concept_dimension</tablename>
<columnname>concept_path</columnname>
<columndatatype>T</columndatatype>
<operator>LIKE</operator>
<dimcode>\\ RPDR\Diagnoses\Circulatory system (390-459)\Acute Rheumatic fever (390-392)</dimcode>
<comment/>
<tooltip>Diagnoses \ Circulatory system \ Acute Rheumatic fever</tooltip>
</concept>
</concepts>
</message_body>
```