

## API Filters:

Technopedia APIs support using filter parameters with different filter operators to narrow down the results of the API.

### Filter Operators:

All filter operators are of the following format:

Filter parameter name followed by double underscore followed by operator name followed by equals sign followed by the value.

For exact filter, it is not necessary to specify the double underscore followed by the operator name exact. Instead for exact operator, we can just specify parameter name followed by equals sign followed by the value.

The following table lists the filter operators supported by Technopedia APIs:

Filter Operator Name	Description	Format	Example
exact	Exact match	<Filter parameter>=<value>	cat_manufacturer_id=1234
contains	Contains	<Filter parameter>_contains=<value>	manufacturer_contains=Micro
icontains	Case insensitive contains	<Filter parameter>_icontains=<value>	manufacturer_icontains=micro
startswith	Starts with	<Filter parameter>_startswith=<value>	manufacturer_startswith=Micro
istartswith	Case insensitive startswith	<Filter parameter>_istartswith=<value>	manufacturer_istartswith=Micro
endswith	Ends with	<Filter parameter>_endswith=<value>	manufacturer_endswith=obe
gt	Greater than	<Filter parameter>_gt=<value>	tier_gt=1
lt	Less than	<Filter parameter>_lt=<value>	tier_lt=3
isnull	Is Null	<Filter parameter>_isnull=<True or False>	patchlevel_isnull=False

## API Filter Parameters:

The following table lists the filter parameters available on each API endpoint along with the supported filter operators:

API Name: **manufacturer**

Filter Parameter	Data type	Possible Values	Supported Operators	Usage
cat_manufacturer_id	Number		exact	?cat_manufacturer_id=1234
cat_manufacturer_owner_id	Number		exact	?cat_manufacturer_owner_id=1234
manufacturer	String		exact contains icontains startswith startswith endswith	To list all manufacturers whose name starts with micro, use: ?manufacturer_istartswith=micro
manufacturer_owner	String		exact contains icontains startswith endswith	
tier	Number	1 or 2 or 3	exact gt lt	To list all tier 1 &2 manufacturers, use: ?tier_lt=3  To list all manufacturers with tier 1, use: ?tier=1
tiers	String (comma separated string of tier)	1 or 1,2 or 1,3 or 2,3 or 1,2,3	exact	To list all tier 1 & 2 manufacturers, use: ?tiers=1,2
cat_industrytag_id	Number		exact	
industrytag_title	String		exact contains icontains startswith endswith	

API Name: **taxonomy2012**

<b>Filter Parameter</b>	<b>Data type</b>	<b>Possible Values</b>	<b>Supported Operators</b>	<b>Usage</b>
cat_taxonomy2012_id	Number		exact	
cat_taxonomy2012_parent_id	Number		exact	
taxonomy2012	String		exact contains icontains startswith startswith endswith	
software_hardware	String	Software or Hardware	exact	

API Name: **software\_standard**

<b>Filter Parameter</b>	<b>Data type</b>	<b>Possible Values</b>	<b>Supported Operators</b>	<b>Usage</b>
cat_manufacturer_id	Number		exact	
cat_taxonomy2012_id	Number		exact	
cat_sw_product_id	Number		exact	
cat_sw_edition_id	Number		exact	
cat_sw_version_id	Number		exact	
cat_sw_release_id	Number		exact	
major_release_id	Number		exact	
major_version_id	Number		exact	
manufacturer			exact contains icontains startswith startswith endswith	
tier	Number	1 or 2 or 3	exact gt lt	
category	String		exact	
sub_category	String		exact	

product_name	String		exact contains icontains startswith startswith endswith	
edition	String		exact	
version	String		exact	
version_group	String		exact	
release	String		exact	
patchlevel	String		exact isnull contains icontains	
licensable	String	yes or no or null	exact	
is_major_release	String	Y or N	exact	
is_major_version	String	Y or N	exact	To list only major versions, ?is_major_version=Y
show_all	String	Y or N. Default is N.	exact	?show_all=Y

You can also order the result set by the version\_order column. In order to do that, you have to specify order\_by=version\_order in the GET request of the api call to software\_standard. This will order the result set in the ascending order of version\_order. To get the result ordered by descending order of version\_order column, you have to specify order\_by=-version\_order in the GET request. For example, to obtain the most recent 5 releases of Microsoft Office 2007, the query would be:

[http://api.technopedia.com/api/v1/software\\_standard/?manufacturer=Microsoft&product\\_name=Office&version\\_group=2007&order\\_by=-version\\_order&limit=5](http://api.technopedia.com/api/v1/software_standard/?manufacturer=Microsoft&product_name=Office&version_group=2007&order_by=-version_order&limit=5)

API Name: **software\_extended**

Filter Parameter	Data type	Possible Values	Supported Operators	Usage
cat_manufacturer_id	Number		exact	
cat_taxonomy2012_id	Number		exact	
cat_sw_product_id	Number		exact	
cat_sw_edition_id	Number		exact	
cat_sw_version_id	Number		exact	
cat_sw_version_group_id	Number		exact	
cat_sw_release_id	Number		exact	
major_release_id	Number		exact	

major_version_id	Number		exact	
manufacturer			exact contains icontains startswith startswith endswith	
tier	Number	1 or 2 or 3	exact gt lt	
category	String		exact	
sub_category	String		exact	
product_name	String		exact contains icontains startswith startswith endswith	
edition	String		exact	
version	String		exact	
version_group	String		exact	
release	String		exact	
patchlevel	String		exact isnull contains icontains	
licensable	String	yes or no or null	exact	
is_major_release	String	Y or N	exact	
is_major_version	String	Y or N	exact	To list only major versions, ?is_major_version=Y
obsolete_date	Date (YYYY-MM-DD)	Date of the format YYYY-MM-DD	exact gt lt	To list all software releases whose obsolete date is in the future: ?obsolete_date_gt=2015-03-09
show_all	String	Y or N. Default is N.	exact	?show_all=Y

You can also order the result set by the version\_order column. In order to do that, you have to specify order\_by=version\_order in the GET request of the api call to software\_extended. This will order the result set in the ascending order of version\_order. To get the result ordered by descending order of version\_order column, you have to specify order\_by=-version\_order in the

GET request. For example, to obtain the most recent 5 releases of Microsoft Office 2007, the query would be:

[http://api.technopedia.com/api/v1/software\\_extended/?manufacturer=Microsoft&product\\_name=Office&version\\_group=2007&order\\_by=-version\\_order&limit=5](http://api.technopedia.com/api/v1/software_extended/?manufacturer=Microsoft&product_name=Office&version_group=2007&order_by=-version_order&limit=5)

API Name: **sw\_product**

Filter Parameter	Data type	Possible Values	Supported Operators	Usage
manufacturer_id	Number		exact	
cat_taxonomy2012_id	Number		exact	
manufacturer	String		exact contains icontains startswith endswith	
tier	Number		exact	
taxonomy2012	String		exact contains icontains startswith endswith	
software	String		exact contains icontains startswith endswith	
is_suite	Number	1 or 0	exact	
family	Number		exact contains icontains startswith endswith	
plicable	Number	0 or 1 or 2	exact	

API Name: **sw\_release**

Filter Parameter	Data type	Possible Values	Supported Operators	Usage
manufacturer_id	Number		exact	
sw_product_id	Number		exact	
sw_edition_id	Number		exact	

sw_version_id	Number		exact	
sw_version_group_id	Number		exact	
manufacturer			exact contains icontains startswith startswith endswith	
sw_product	String		exact contains icontains startswith endswith	
sw_edition	String		exact contains icontains startswith endswith	
sw_version	String		exact contains icontains startswith endswith	
sw_version_group	String		exact contains icontains startswith endswith	
release	String		exact contains icontains startswith endswith	

API Name: **hardware\_standard**

<b>Filter Parameter</b>	<b>Data type</b>	<b>Possible Values</b>	<b>Supported Operators</b>	<b>Usage</b>
manufacturer_id	Number		exact	
hw_product_id	Number		exact	
model_id	Number		exact	
manufacturer	String		exact contains icontains	

			startswith startswith endswith	
tier	Number		exact lt gt	
product_name	String		exact contains icontains startswith startswith endswith	
model_name	String		exact contains icontains startswith endswith	

API Name: **hardware\_extended**

<b>Filter Parameter</b>	<b>Data type</b>	<b>Possible Values</b>	<b>Supported Operators</b>	<b>Usage</b>
cat_manufacturer_id	Number		exact	
cat_taxonomy2012_id	Number		exact	
cat_hw_product_id	Number		exact	
cat_model_id	Number		exact	
manufacturer	String		exact contains icontains startswith startswith endswith	
tier	Number		exact lt gt	
category	String		exact	
sub_category	String		exact	
product	String		exact contains icontains startswith startswith endswith	
model	String		exact contains	



			icontains startswith endswith	
obsolete_date	Date (YYYY- MM-DD)	Date of the format YYYY- MM-DD	exact gt lt	To list all hardware models whose obsolete date is in the future: ?obsolete_date_gt=2015-03-09

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