

# 28.0 Suggestions APIs

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## 28.0 Suggestions APIs

### 28.1 Suggestions Query

Get limited number of sorted existing suggestions that match a specified pattern for an entity type. Patterns may include simple path wildcards, (the \* to match any number of characters and the ? character to match one). The \ character can be used to escape the wildcards or the escape character itself. Not specifying a pattern matches all suggestions. Supported entity types include: `HOST`, `SERVICE`, `HOSTGROUP`, `SERVICE_GROUP`, and `CUSTOM_GROUP`. Host suggestions include host and host identity names, (aliases). More than one entity type can be queried, yielding a single heterogeneous set of suggestions. Matching and sorting is done in a case-insensitive fashion. Optimized suggestions queries are executed against the database and reflect the current set of available suggestions. The total count of suggestions matching the pattern is also returned.

#### 28.1.1 Method: GET Suggestions Query

[GET /api/suggestions/query/{entityTypeNames}](#)

[GET /api/suggestions/query/{entityTypeNames}/{pattern}](#)

[GET /api/suggestions/query/{entityTypeNames}/{pattern}?limit=5](#)

#### 28.1.2 Path And Query Parameters

Field	Type	Description	Required
entityTypeNames	Path	Encoded delimited list of entity type names including <code>HOST</code> , <code>SERVICE</code> , <code>HOSTGROUP</code> , <code>SERVICE_GROUP</code> , and <code>CUSTOM_GROUP</code>	yes
pattern	Path	Encoded pattern string optionally including simple * or ? wildcards	no
limit	Query	Limit returned suggestions, (defaults to 10, -1 returns all)	no

#### 28.1.3 HTTP Headers

Header	Valid Values	Required
Accept	application/xml or application/json	True
GWOS-API-TOKEN	a valid token returned from login	True
GWOS-APP-NAME	your application name	True

#### 28.1.4 HTTP Status Codes

Code	Description
200	Matching suggestions for pattern returned
404	No matching suggestions for pattern
401	Authentication/authorization error occurred
500	An internal server error occurred while processing suggestions query

#### 28.1.5 Example Responses

Here is an XML example of the suggestions returned.

XML results are always wrapped in an `<suggestions>` element with a `count` attribute. Within is a wrapping `<suggestions>` collection element with one or more `<suggestion>` subelements.

```

<suggestions count="18">
  <suggestions>
    <suggestion name="local_cpu_httpd" entityType="SERVICE"/>
    <suggestion name="local_cpu_java" entityType="SERVICE"/>
    <suggestion name="local_cpu_nagios" entityType="SERVICE"/>
  </suggestions>
</suggestions>

```

Here is a JSON example of the suggestions returned.

JSON results are always wrapped in an object with a count and suggestions array member with one or more elements.

```

{
  "count" : 18,
  "suggestions" : [ {
    "name" : "local_cpu_httpd",
    "entityType" : "SERVICE"
  }, {
    "name" : "local_cpu_java",
    "entityType" : "SERVICE"
  }, {
    "name" : "local_cpu_nagios",
    "entityType" : "SERVICE"
  } ]
}

```

## 28.2 Host Service Description Suggestions

Return a sorted list of all Host name Service description suggestions. Optimized Host Service queries are executed against the database and reflect the current set of available Service descriptions.

### 28.2.1 Method: GET Host Services

GET [/api/suggestions/services/{hostName}](#)

### 28.2.2 Path And Query Parameters

Field	Type	Description	Required
hostName	Path	Encoded Host or Host Identity host name	yes

### 28.2.3 HTTP Headers

Header	Valid Values	Required
Accept	application/xml or application/json	True
GWOS-API-TOKEN	a valid token returned from login	True
GWOS-APP-NAME	your application name	True

### 28.2.4 HTTP Status Codes

Code	Description
200	Service descriptions for Host returned
404	No Service descriptions for Host
401	Authentication/authorization error occurred
500	An internal server error occurred while processing suggestions query

### 28.2.5 Example Responses

Here is an XML example of the Service description names returned.

XML results are always wrapped in an <names> collection element, with one or more <name> subelements.

```
<names>
  <name>local_cpu_httpd</name>
  <name>local_cpu_java</name>
  <name>local_cpu_nagios</name>
  <name>local_cpu_perl</name>
</names>
```

Here is a JSON example of the Service description names returned.

JSON results are always wrapped in an object with a names array member, with one or more name strings.

```
{
  "names" : [ "local_cpu_httpd", "local_cpu_java", "local_cpu_nagios", "local_cpu_perl" ]
}
```

## 28.3 Service Host Name Suggestions

Return a sorted list of all Service description Host host name suggestions. Returned names include Host and Host Identity, (alias), host names. Optimized Service Host queries are executed against the database and reflect the current set of available Host names.

### 28.3.1 Method: GET Service Hosts

[GET /api/suggestions/hosts/{serviceDescription}](#)

### 28.3.2 Path And Query Parameters

Field	Type	Description	Required
serviceDescription	Path	Encoded Service description	yes

### 28.3.3 HTTP Headers

Header	Valid Values	Required
Accept	application/xml or application/json	True
GWOS-API-TOKEN	a valid token returned from login	True
GWOS-APP-NAME	your application name	True

### 28.3.4 HTTP Status Codes

Code	Description
200	Host and Host Identity host names for Service description returned
404	No host names for Service description
401	Authentication/authorization error occurred
500	An internal server error occurred while processing suggestions query

### 28.3.5 Example Responses

Here is an XML example of the Host and Host Identity host names returned.

XML results are always wrapped in an <names> collection element, with one or more <name> subelements.

```
<names>
  <name>localhost</name>
</names>
```

Here is a JSON example of the Host and Host Identity host names returned.

JSON results are always wrapped in an object with a `names` array member, with one or more name strings.

```
{
  "names" : [ "localhost" ]
}
```