

IP Range List Service

IP Range List Service

The IP Range List Service is used to manage lists of IP ranges that can be used for targeting by the [Profile Service](#). The functionality provided by this service is similar to the [Domain List Service](#).

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Intended Use Case

The intended use case for this service is for mobile buyers who would like to serve ads to users where direct client billing is enabled, i.e., purchases are charged to the carrier and added to the mobile bill. In this scenario, campaigns target the IP ranges of gateways for cell towers that allow direct carrier billing.

To actually target the IP range lists you create and manage here, add them to the `ip_range_list_targets` field in the [Profile Service](#).

Not Designed for Blacklisting

This service is not designed for blacklisting IPs. See the Profile Service limitation below for more details.

Limitations

The following limitations exist for the IP Range List Service:

- You can create up to 100 IP range lists.
- A single "include" IP range list (`include` set to `true`) cannot contain more than 3500 ranges.
- A single "exclude" IP range list (`include` set to `false`) cannot contain more than 10 ranges.

In addition, the following limitations exist on the [Profile Service](#) when targeting IP Range Lists:

- Per profile, you can target up to 10 "include" IP range lists (`include` set to `true`) and no more than 1 "exclude" IP range list (`include` set to `false`). The excluded IP ranges must be a subset of the included IP ranges.

REST API

View all of your IP range lists:

```
GET https://api.appnexus.com/ip-range-list
```

View a specific IP range list:

```
GET https://api.appnexus.com/ip-range-list?id=LIST_ID
```

Add a new IP range list:

```
POST https://api.appnexus.com/ip-range-list
```

Modify an existing IP range list:

PUT https://api.appnexus.com/ip-range-list?id=LIST_ID

Delete an IP range list:

DELETE https://api.appnexus.com/ip-range-list?id=LIST_ID

Find out which fields you can filter and sort by:

GET <https://api.appnexus.com/ip-range-list/meta>

JSON Fields

Name	Type	Description	Default	Required on
id	int	The unique ID of this IP range list.		PUT, in query string
ip_ranges	array of objects	This array holds ranges of IP addresses. See the IP Ranges table below for details on the object fields.		POST, PUT
name	string	The name of the IP range list.		POST, PUT
description	string	An optional description of this IP range list.	null	
include	boolean	Whether to include the IP ranges in this list in campaign targeting using the Profile Service .	false	
num_ip_ranges	int	Read-only. The current number of IP ranges in this list.		
last_modified	date	Read-only. When this object was last updated.		

IP Ranges

Each object in the `ip_ranges` array contains the following fields.

Name	Type	Description	Required on
from_ip	string	The starting IP address. If no following <code>to_ip</code> field is included, this is treated as the only address to include or exclude. This string must be in valid IPV4 address format, i.e., "198.2.1.1".	POST, PUT

to_ip	string	The (optional) ending IP address. If this field is not included, the IP address in the <code>from_ip</code> field will be used alone. If this field is included, the addresses between the fields form a range. Ranges must be listed in ascending order, e.g., <code>{"from_ip": "192.168.2.1", "to_ip": "192.168.2.100"}</code> .	
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Examples

>> [View an IP range list](#)

```

$ curl -b cookies -c cookies 'https://api.appnexus.com/ip-range-list?id=2'
{
  "response": {
    "status": "OK",
    "count": 1,
    "start_element": 0,
    "num_elements": 100,
    "ip-range-list": {
      "id": 2,
      "name": "Sky IPs 1",
      "description": "Targeted Sky IP Addresses",
      "include": true,
      "last_modified": "2014-02-19 15:04:36",
      "ip_ranges": [
        {
          "from_ip": "2.120.0.0",
          "to_ip": "2.120.0.0"
        },
        {
          "from_ip": "2.216.0.0",
          "to_ip": "2.216.0.0"
        },
        {
          "from_ip": "5.64.0.0",
          "to_ip": "5.64.0.0"
        },
        {
          "from_ip": "90.192.0.0",
          "to_ip": "90.192.0.0"
        },
        {
          "from_ip": "94.0.0.0",
          "to_ip": "94.0.0.0"
        },
        {
          "from_ip": "151.224.0.0",
          "to_ip": "151.224.0.0"
        },
        {
          "from_ip": "176.24.0.0",
          "to_ip": "176.24.0.0"
        },
        {
          "from_ip": "176.248.0.0",
          "to_ip": "176.248.0.0"
        }
      ],
      "num_ip_ranges": 8
    }
  }
}

```

>> **Create an IP range list**

```

$ cat ip-range-list.json

{
  "ip-range-list": {
    "ip_ranges": [
      {
        "to_ip": "168.100.1.105",
        "from_ip": "168.100.1.100"
      },
      {
        "from_ip": "168.109.109.100"
      }
    ],
    "include": true,
    "description": "Yet another nice little IP range list for testing.",
    "name": "Rich's Second Ever IP range list"
  }
}

$ curl -b cookies -X POST -d @ip-range-list.json
'https://api.appnexus.com/ip-range-list'

{
  "response": {
    "status": "OK",
    "count": 1,
    "id": 3,
    "start_element": 0,
    "num_elements": 100,
    "ip-range-list": {
      "id": 3,
      "name": "Rich's Second Ever IP range list",
      "description": "Yet another nice little IP range list for testing.",
      "include": true,
      "last_modified": "2014-02-25 20:21:12",
      "ip_ranges": [
        {
          "from_ip": "168.100.1.100",
          "to_ip": "168.100.1.105"
        },
        {
          "from_ip": "168.109.109.100",
          "to_ip": "168.109.109.100"
        }
      ],
      "num_ip_ranges": 2
    }
  }
}

```

>> Update an IP range list

In this example, we add a new ip range to ip range list 3.

```
$ cat update-ip-range-list.json
```

```
{
  "ip-range-list": {
    "ip_ranges": [
      {
        "to_ip": "168.100.1.105",
        "from_ip": "168.100.1.100"
      },
      {
        "to_ip": "192.168.1.100",
        "from_ip": "192.168.1.1"
      },
      {
        "from_ip": "168.109.109.100"
      }
    ]
  }
}
```

```
$ curl -b cookies -X PUT -d @update-ip-range-list.json
'https://api.appnexus.com/ip-range-list?id=3'
```

```
{
  "response":
    "status": "OK",
    "count": 1,
    "id": "3",
    "start_element": 0,
    "num_elements": 100,
    "ip-range-list": {
      "id": 3,
      "name": "Rich's First IP range list, now with updates!",
      "description": "Just a nice little IP range list for testing. Recently
updated.",
      "include": true,
      "last_modified": "2014-12-10 18:49:00",
      "ip_ranges": [
        {
          "from_ip": "168.100.1.100",
          "to_ip": "168.100.1.105"
        },
        {
          "from_ip": "168.109.109.100",
          "to_ip": "168.109.109.100"
        },
        {
          "from_ip": "192.168.1.1",
          "to_ip": "192.168.1.100"
        }
      ],
      "num_ip_ranges": 3
    }
}
```

>> Add an IP range list to your profile

This service is used for IP range list management. In order for targeting to take effect, the list must be added to your profile via the [Profile Service](#).

```
$ cat profile-update.json

{
  "profile": {
    "ip_range_list_targets": [
      {
        "id":5
      }
    ]
  }
}

$ curl -b cookies -X PUT -d @profile-update.json
'https://api.appnexus.com/profile?id=294641&advertiser_id=41884'

{
  "response":{
    "num_elements":100,
    "start_element":0,
    "id":"294641",
    "count":1,
    "status":"OK"
    "profile":{
      "exelate_targets":null,
      "segment_targets":null,
      "publisher_targets":null,
      "platform_publisher_targets":null,
      "platform_placement_targets":null,
      "platform_content_category_targets":null,
      "placement_targets":null,
      "deal_targets":null,
      "content_category_targets":null,
      "mobile_app_instance_list_targets":null,
      "mobile_app_instance_targets":null,
      "ip_range_list_targets": [
        {
          "id": 5
          "include": false,
          "description": "Test IP range list",
          "name": "Test IP range list",
        }
      ],
      "operating_system_extended_targets":null,
      "venue_targets":null,
      "site_targets":null,
      "position_targets":null,
      "operating_system_family_targets":null,
      "operating_system_targets":null,
      "ip_targets":null,
      "inventory_network_resold_targets":null,
      "inventory_group_targets":null,
      "intended_audience_targets":null,
      "gender_targets":null,
      "querystring_targets":null,
      "device_model_targets":null,
      "screen_size_targets":null,
    }
  }
}
```

```
"device_type_targets":null,
"supply_type_targets":null,
"carrier_targets":null,
"segment_group_targets":null,
"member_targets":null,
"postal_code_targets":null,
"size_targets":null,
"language_targets":null,
"domain_list_targets":null,
"domain_targets":null,
"dma_targets":null,
"browser_family_targets":null,
"browser_targets":null,
"daypart_targets":null,
"age_targets":null,
"inventory_attribute_targets":null,
"inventory_source_targets":null,
"inv_class_targets":null,
"city_targets":null,
"region_targets":null,
"country_targets":null,
"user_group_targets":null,
"mobile_app_instance_list_action_include":false,
"mobile_app_instance_action_include":false,
"use_operating_system_extended_targeting":false,
"operating_system_family_action":"exclude",
"created_on":"2013-09-16 17:22:30",
"is_template":false,
"allow_unaudited":false,
"trust":"seller",
"require_cookie_for_freq_cap":true,
"operating_system_action":"exclude",
"venue_action":"exclude",
"min_minutes_per_imp":null,
"max_pageimps":null,
"max_lifetimeimps":null,
"max_dayimps":null,
"max_sessionimps":null,
"publisher_id":null,
"advertiser_id":41884,
"daypart_bitmap":null,
"non_audited_url_action":"include",
"is_expired":false,
"querystring_boolean_operator":"and",
"querystring_action":"exclude",
"location_target_longitude":null,
"location_target_latitude":null,
"location_target_radius":null,
"device_model_action":"exclude",
"screen_size_action":"exclude",
"device_type_action":"exclude",
"supply_type_action":"exclude",
"carrier_action":"exclude",
"session_freq_type":"platform",
"min_sessionimps":null,
"segment_boolean_operator":"and",
"language_action":"exclude",
"inventory_action":"exclude",
"domain_list_action":"exclude",
```



```
"domain_action":"exclude",
"dma_action":"exclude",
"daypart_timezone":null,
"last_modified":"2014-02-05 19:52:32",
"use_inventory_attribute_targets":false,
"browser_action":"exclude",
"city_action":"exclude",
"region_action":"exclude",
"country_action":"exclude",
"description":null,
"code":null,
"id":294641
```

```
}  
  }  
}
```

Related Topics

- [Profile Service](#)
- [API Semantics](#)
- [API Best Practices](#)