



Tarana Cloud Suite (TCS) North-Bound API

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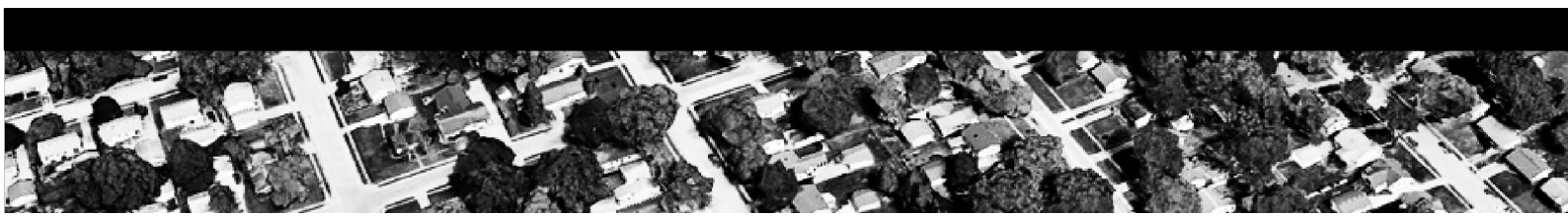


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Intended Audience

This document is intended for Tarana customers and their employees who use Tarana Cloud Suite (TCS) to monitor, manage, and troubleshoot a Tarana G1 network, which consists of Tarana Base Nodes and Remote Nodes (BNs and RNs). G1 BNs and RNs use the unlicensed spectrums 5 GHz and 3 GHz (CBRS).

Note: For the most up-to-date documentation and videos, see our support portal at: <https://support.taranawireless.com/hc/en-us>

Overview

REST-over-http APIs

The Tarana Wireless API is organized around [REST](#). Our API accepts [form-encoded](#) request bodies, returns [JSON-encoded](#) responses, and uses standard HTTP response codes, authentication, and verbs.

For 5GHz devices, this is accessible at `api.cloud.taranawireless.com`. For CBRS devices, this is accessible at `api.trial.cloud.taranawireless.com`.

General URL scheme:

- `api.cloud.taranawireless.com/v1/<group>/<resource-hierarchy>/<resource-id>/<optional-action>`
- `v1` : version number
- `<group>` : network, telemetry, operations...
- resource hierarchy: e.g., `region/market/site/cell/sector/radios`
- http verbs (GET/PATCH/POST/DELETE)

Check the individual APIs to see supported **HTTP Methods**.

Authentication Keys

Authentication using an API key is provided by Tarana. An API key is generated for each Operator. Contact Tarana customer support to get an API key.

Network Hierarchy APIs

Region APIs

Add Region

HTTP URL: <https://api.cloud.taranawireless.com/v1/network/regions>

HTTP Method: POST

Request Body

```
{
  "name": "string",
  "networkProfile": 0,
  "notes": "string",
  "contactPerson": "string",
  "email": "string",
  "regulatoryDomain": "string",
  "regulatoryCountry": "string"
}
```

Request Parameter Definitions

Parameter	Data Type	Required	Comments
name	string	Yes	2 – 64 characters
networkProfile	Integer	No	1,2,5,6
notes	String	No	
contactPerson	String	No	
email	String	No	
regulatoryDomain	String	Yes	FCC
regulatoryCountry	String	Yes	USA, ZAF

Response Codes

TCS responds with one of the following response codes:

Response Code 201 (Created)

```
{
  "data": {
    "status": "Added"
  },
  "error": null
}
```

Response Code 400 (Bad Request)

```
{
  "data": null,
  "error": {
    "code": 400,
    "message": "<messageText>",
  }
}
```

```
    "status": "Bad Request"
  }
}
```

Response Code 403 (Forbidden)

```
{
  "data": null,
  "error": {
    "code": 403,
    "message": "Access forbidden",
    "status": "Forbidden"
  }
}
```

Response Code 500 (Internal Server Error)

```
{
  "data": null,
  "error": {
    "code": 500,
    "message": "Internal server error",
    "status": "Internal Server Error"
  }
}
```

Get Region Details

HTTP URL: https://api.cloud.taranawireless.com/v1/network/regions/<regionName>

HTTP Method: GET

Request Body

This request requires no body.

Request Parameter Definitions

Parameter	Data Type	Required
regionName	string	Yes

Response Codes

TCS responds with one of the following response codes:

Response Code 201 (Created)

```
{
  "data": {
    "id": 0,
    "name": "string",
    "operatorId": 0,
    "operatorName": "string",
    "networkProfile": 1,
    "notes": "string",
    "contactPerson": "string",
    "email": "string",
    "regulatoryDomain": "string",
    "regulatoryCountry": "string"
  },
  "error": null
}
```

Response Code 403 (Forbidden)

```
{
  "data": null,
  "error": {
    "code": 403,
    "message": "Access forbidden",
    "status": "Forbidden"
  }
}
```

Response Code 404 (Not Found)

```
{
  "data": null,
  "error": {
    "code": 404,
    "message": "Region with name <XXX> not found",
    "status": "Not found"
  }
}
```

}

Response Code 500 (Internal Server Error)

```
{
  "data": null,
  "error": {
    "code": 500,
    "message": "Internal server error",
    "status": "Internal Server Error"
  }
}
```

Get All Regions Details

HTTP

URL: <https://api.cloud.taranawireless.com/v1/network/regions?offset=&count=&sortBy=&order=>

HTTP Method: GET

Request Body

This request requires no body.

Request Parameter Definitions

Parameter	Data Type	Required
offset	Integer	No
count	Integer	No
sortBy	String	No
order	String	No

Response Codes

TCS responds with one of the following response codes:

Response Code 200 (OK)

```
{
  "data": {
    "items": [
      {
        "id": 0,
        "name": "string",
        "operatorId": 0,
        "operatorName": "string",
        "networkProfile": 1,
        "notes": "string",
        "contactPerson": "string",
        "email": "string",
        "regulatoryDomain": "string",
        "regulatoryCountry": "string"
      }
    ],
    "count": 0,
    "offset": 0,
    "totalCount": 0,
    "error": null
  }
}
```

Response Code 400 (Bad Request)

```
{
  "data": null,
  "error": {
    "code": 400,
    "message": "<MESSAGE>",
    "status": "Bad Request"
  }
}
```

}

Response Code 403 (Forbidden)

```
{
  "data": null,
  "error": {
    "code": 403,
    "message": "Access forbidden",
    "status": "Forbidden"
  }
}
```

Response Code 500 (Internal Server Error)

```
{
  "data": null,
  "error": {
    "code": 500,
    "message": "Internal server error",
    "status": "Internal Server Error"
  }
}
```

Update Region

HTTP URL: <https://api.cloud.taranawireless.com/v1/network/regions/<regionName>>

HTTP Method: PUT

Request Body

```
{
  "name": "string",
  "networkProfile": 0,
  "notes": "string",
  "contactPerson": "string",
  "email": "string",
  "regulatoryDomain": "string",
  "regulatoryCountry": "string"
}
```

Request Parameter Definitions

Parameter Name	Datatype	Mandatory	Possible Input/Validation
regionName	String	Yes	Must be non-empty
name	String	Yes	Must be non-empty Should not has whitespace at the beginning and end Allowed length is between 2 to 64 Followed by regex - <code>^[A-Za-z0-9]([a-zA-Z0-9] [-_.&])*</code>
networkProfile	Integer	No	1,2,5,6
notes	String	No	
contactPerson	String	No	
email	String	No	
regulatoryDomain	String	Yes	Possible values [FCC]
regulatoryCountry	String	Yes	Possible values [USA, ZAF]

Response Codes

TCS responds with one of the following response codes:

Response Code 200 (OK)

```
{
  "data": {
    "id": 0,
    "name": "string",
    "operatorId": 0,
    "operatorName": "string",
    "networkProfile": 1,
    "notes": "string",
    "contactPerson": "string",
    "email": "string",
    "regulatoryDomain": "string",
    "regulatoryCountry": "string"
  },
  "error": null
}
```

Response Code 400 (Bad Request)

```
{
  "data": null,
  "error": {
    "code": 400,
    "message": "<MESSAGE>",
    "status": "Bad Request"
  }
}
```

Response Code 403 (Forbidden)

```
{
  "message": "<MESSAGE>"
}
```

Response Code 404 (Not Found)

```
{
  "data": null,
  "error": {
    "code": 404,
    "message": "Region with name {regionName} not found",
    "status": "Not found"
  }
}
```

Response Code 500 (Internal Server Error)

```
{
  "data": null,
  "error": {
    "code": 500,
    "message": "Internal server error",
    "status": "Internal Server Error"
  }
}
```

Update Region (PATCH)

HTTP URL: <https://api.cloud.taranawireless.com/v1/network/regions/<regionName>>

HTTP Method: PATCH

Request Body

```
{
  "contactPerson": "John Smith",
  "email": "john@somedomain.com"
}
```

Request Parameter Definitions

Parameter Name	Datatype	Mandatory	Possible Input/Validation
regionName	String	Yes	Must be non-empty
name	String	No	Must be non-empty Should not has whitespace at the beginning and end Allowed length is between 2 to 64 Followed by regex - <code>^[A-Za-z0-9]([a-zA-Z0-9] [-_&])*\$</code>
networkProfile	Integer	No	1,2,5,6
notes	String	No	
contactPerson	String	No	
email	String	No	
regulatoryDomain	String	No	FCC
regulatoryCountry	String	No	USA,ZAF

Response Codes

TCS responds with one of the following response codes:

Response Code 200 (OK)

```
{
  "data": {
    "id": 0,
    "name": "string",
    "operatorId": 0,
    "operatorName": "string",
    "networkProfile": 1,
    "notes": "string",
    "contactPerson": "string",
    "email": "string",
    "regulatoryDomain": "string",
    "regulatoryCountry": "string"
  },
  "error": null
}
```

```
}
```

Response Code 400 (Bad Request)

```
{
  "data": null,
  "error": {
    "code": 400,
    "message": "<MESSAGE>",
    "status": "Bad Request"
  }
}
```

Response Code 403 (Forbidden)

```
{
  "data": null,
  "error": {
    "code": 403,
    "message": "Access forbidden",
    "status": "Forbidden"
  }
}
```

Response Code 404 (Not Found)

```
{
  "data": null,
  "error": {
    "code": 404,
    "message": "Region with name <XXX> does not exist",
    "status": "Not found"
  }
}
```

Response Code 500 (Internal Server Error)

```
{
  "data": null,
  "error": {
    "code": 500,
    "message": "Internal server error",
    "status": "Internal Server Error"
  }
}
```


Delete Region

HTTP URL: <https://api.cloud.taranawireless.com/v1/network/regions/<regionName>>

HTTP Method: DELETE

Request Body

This request requires no body.

Request Parameter Definitions

Parameter Name	Datatype	Mandatory	Possible Input/Validation
regionName	String	Yes	Must be non-empty

Response Codes

TCS responds with one of the following response codes:

Response Code 200 (OK)

```
{
  "data": {
    "id": 0,
    "name": "string",
    "operatorId": 0,
    "operatorName": "string",
    "networkProfile": 0,
    "notes": "string",
    "contactPerson": "string",
    "email": "string",
    "regulatoryDomain": "string",
    "regulatoryCountry": "string"
  },
  "error": null
}
```

Response Code 400 (Bad Request)

```
{
  "data": null,
  "error": {
    "code": 400,
    "message": "<MESSAGE>",
    "status": "Bad Request"
  }
}
```

Response Code 403 (Forbidden)

```
{
  "message": "<MESSAGE>"
}
```

Response Code 404 (Not Found)

```
{
  "data": null,
  "error": {
    "code": 404,
    "message": "Region with name <XXX> does not exist",
    "status": "Not found"
  }
}
```

Response Code 405 (Method Not Allowed)

```
{
  "data": null,
  "error": {
    "code": 405,
    "message": "HTTP 405 Method Not Allowed",
    "status": "Method Not Allowed"
  }
}
```

Response Code 500 (Internal Server Error)

```
{
  "data": null,
  "error": {
    "code": 500,
    "message": "Internal server error",
    "status": "Internal Server Error"
  }
}
```

Market APIs

Add Market

HTTP URL: <https://api.cloud.taranawireless.com/v1/network/regions/<regionName>/markets>

HTTP Method: POST

Request Body

```
{
  "name": "string",
  "networkProfile": 0,
  "notes": "string",
  "contactPerson": "string",
  "email": "string"
}
```

Request Parameter Definitions

Parameter Name	Datatype	Mandatory	Possible Input/Validation
regionName	String	Yes	Must be non-empty
name	String	Yes	Must be non-empty Should not has whitespace at the beginning and end Allowed length is between 2 to 64 Followed by regex - <code>^[A-Za-z0-9]([a-zA-Z0-9] [-_.&])*\$</code>
networkProfile	Integer	No	1,2,5,6
notes	String	No	
contactPerson	String	No	
email	String	No	

Response Codes

TCS responds with one of the following response codes:

Response Code 201 (Created)

```
{
  "data": {
    "id": 0,
    "name": "string",
    "regionId": 0,
    "regionName": "string",
    "networkProfile": 0,
    "notes": "string",
    "contactPerson": "string",
    "email": "string"
  },
}
```

```
    "error": null
  }
```

Response Code 400 (Bad Request)

```
{
  "data": null,
  "error": {
    "code": 400,
    "message": "<MESSAGE>",
    "status": "Bad Request"
  }
}
```

Response Code 403 (Forbidden)

```
{
  "message": "Forbidden"
}
```

Response Code 404 (Not Found)

```
{
  "data": null,
  "error": {
    "code": 404,
    "message": "<MESSAGE>",
    "status": "Not found"
  }
}
```

Response Code 405 (Method Not Allowed)

CODE

Response Code 500 (Internal Server Error)

```
{
  "data": null,
  "error": {
    "code": 500,
    "message": "Internal server error",
    "status": "Internal Server Error"
  }
}
```

Get Market details

HTTP

URL: https://api.cloud.taranawireless.com/v1/network/regions/<regionName>/markets/<marketName>

HTTP Method: GET

Request Body

This request requires no body.

Request Parameter Definitions

Parameter Name	Datatype	Mandatory	Possible Input/Validation
regionName	String	Yes	Must be non-empty
marketName	String	Yes	Must be non-empty

Response Codes

TCS responds with one of the following response codes:

Response Code 200 (OK)

```
{
  "data": {
    "id": 0,
    "name": "string",
    "regionId": 0,
    "regionName": "string",
    "networkProfile": 0,
    "notes": "string",
    "contactPerson": "string",
    "email": "string"
  },
  "error": null
}
```

Response Code 400 (Bad Request)

```
{
  "data": null,
  "error": {
    "code": 400,
    "message": "<MESSAGE>",
    "status": "Bad Request"
  }
}
```

Response Code 403 (Forbidden)

```
{
  "message": "Forbidden"
}
```


Response Code 404 (Not Found)

```
{
  "data": null,
  "error": {
    "code": 404,
    "message": "<MESSAGE>",
    "status": "Not found"
  }
}
```

Response Code 500 (Internal Server Error)

```
{
  "data": null,
  "error": {
    "code": 500,
    "message": "Internal server error",
    "status": "Internal Server Error"
  }
}
```

Get All Markets

HTTP

URL: <https://api.cloud.taranawireless.com/v1/network/regions/<regionName>/markets?offset=&count=&sortBy=&order=>

HTTP Method: GET

Request Body

This request requires no body.

Request Parameter Definitions

Parameter Name	Datatype	Mandatory	Possible Input/Validation
regionName	String	Yes	Must be non-empty
offset	Integer	No	Default: 0
count	Integer	No	Default: 10
sortBy	String	No	Default: Id
order	String	No	Possible values: ["asc", "desc"]

Response Codes

TCS responds with one of the following response codes:

Response Code 200 (OK)

```
{
  "data": {
    "items": [
      {
        "id": 0,
        "name": "string",
        "regionId": 0,
        "regionName": "string",
        "networkProfile": 0,
        "notes": "string",
        "contactPerson": "string",
        "email": "string"
      }
    ],
    "count": 0,
    "offset": 0,
    "totalCount": 0
  },
  "error": null
}
```


Response Code 400 (Bad Request)

```
{
  "data": null,
  "error": {
    "code": 400,
    "message": "<MESSAGE>",
    "status": "Bad Request"
  }
}
```

Response Code 403 (Forbidden)

```
{
  "message": "Forbidden"
}
```

Response Code 404 (Not Found)

```
{
  "data": null,
  "error": {
    "code": 404,
    "message": "<MESSAGE>",
    "status": "Not found"
  }
}
```

Response Code 500 (Internal Server Error)

```
{
  "data": null,
  "error": {
    "code": 500,
    "message": "Internal server error",
    "status": "Internal Server Error"
  }
}
```

Update Market

HTTP

URL: <https://api.cloud.taranawireless.com/v1/network/regions/<regionName>/markets/<marketName>>

HTTP Method: PUT

Request Body

```
{
  "name": "string",
  "networkProfile": 0,
  "notes": "string",
  "contactPerson": "string",
  "email": "string"
}
```

Request Parameter Definitions

Parameter Name	Datatype	Mandatory	Possible Input/Validation
regionName	String	Yes	Must be non-empty
marketName	String	Yes	Must be non-empty
name	String	Yes	Must be non-empty
networkProfile	Integer	No	Null (default), 1, 2, 5, 6
notes	String	No	
contactPerson	String	No	
email	String	No	

Response Codes

TCS responds with one of the following response codes:

Response Code 200 (OK)

```
{
  "data": {
    "id": 0,
    "name": "string",
    "regionId": 0,
    "regionName": "string",
    "networkProfile": 0,
    "notes": "string",
    "contactPerson": "string",
    "email": "string"
  },
  "error": null
}
```

Response Code 400 (Bad Request)

```
{
  "data": null,
  "error": {
    "code": 400,
    "message": "<MESSAGE>",
    "status": "Bad Request"
  }
}
```

Response Code 403 (Forbidden)

```
{
  "message": "<MESSAGE>"
}
```

Response Code 404 (Not Found)

```
{
  "data": null,
  "error": {
    "code": 404,
    "message": "<MESSAGE>",
    "status": "Not found"
  }
}
```

Response Code 405 (Method Not Allowed)

```
{
  "data": null,
  "error": {
    "code": 405,
    "message": "HTTP 405 Method Not Allowed",
    "status": "Method Not Allowed"
  }
}
```

Response Code 500 (Internal Server Error)

```
{
  "data": null,
  "error": {
    "code": 500,
    "message": "Internal server error",
    "status": "Internal Server Error"
  }
}
```

Update Market (PATCH)

HTTP

URL: <https://api.cloud.taranawireless.com/v1/network/regions/<regionName>/markets/<marketName>>

HTTP Method: PATCH

Request Body

```
{
  "networkProfile": 2,
  "notes": "changed network profile from 1 to 2"
}
```

Request Parameter Definitions

Parameter Name	Datatype	Mandatory	Possible Input/Validation
regionName	String	Yes	Must be non-empty
marketName	String	Yes	Must be non-empty
name	String	No	Must be non-empty Should not has whitespace at the beginning and end Allowed length is between 2 to 64 Followed by regex - <code>^[A-Za-z0-9]([a-zA-Z0-9] [-_.&])*\$</code>
networkProfile	Integer	No	1,2,5,6
notes	String	No	
contactPerson	String	No	
email	String	No	

Response Codes

TCS responds with one of the following response codes:

Response Code 200 (OK)

```
{
  "data": {
    "id": 0,
    "name": "string",
    "regionId": 0,
    "regionName": "string",
    "networkProfile": 0,
    "notes": "string",
    "contactPerson": "string",
    "email": "string"
  },
  "error": null
}
```


Response Code 400 (Bad Request)

```
{
  "data": null,
  "error": {
    "code": 400,
    "message": "<MESSAGE>",
    "status": "Bad Request"
  }
}
```

Response Code 403 (Forbidden)

```
{
  "data": null,
  "error": {
    "code": 403,
    "message": "Access forbidden",
    "status": "Forbidden"
  }
}
```

Response Code 404 (Not Found)

```
{
  "data": null,
  "error": {
    "code": 404,
    "message": "Not found",
    "status": "Not found"
  }
}
```

Response Code 500 (Internal Server Error)

```
{
  "data": null,
  "error": {
    "code": 500,
    "message": "Internal server error",
    "status": "Internal Server Error"
  }
}
```

Delete Market

HTTP

URL: <https://api.cloud.taranawireless.com/v1/network/regions/<regionName>/markets/<marketName>>

HTTP Method: DELETE

Request Body

This request requires no body.

Request Parameter Definitions

Parameter Name	Datatype	Mandatory	Possible Input/Validation
regionName	String	Yes	Must be non-empty
marketName	String	Yes	Must be non-empty

Response Codes

TCS responds with one of the following response codes:

Response Code 200 (OK)

```
{
  "data": {
    "id": 0,
    "name": "string",
    "regionId": 0,
    "regionName": "string",
    "networkProfile": 0,
    "notes": "string",
    "contactPerson": "string",
    "email": "string"
  },
  "error": null
}
```

Response Code 400 (Bad Request)

```
{
  "data": null,
  "error": {
    "code": 400,
    "message": "<MESSAGE>",
    "status": "Bad Request"
  }
}
```

Response Code 403 (Forbidden)

```
{
  "message": "<MESSAGE>"
}
```


Response Code 404 (Not Found)

```
{
  "data": null,
  "error": {
    "code": 404,
    "message": "<MESSAGE>",
    "status": "Not found"
  }
}
```

Response Code 405 (Method Not Allowed)

```
{
  "data": null,
  "error": {
    "code": 405,
    "message": "HTTP 405 Method Not Allowed",
    "status": "Method Not Allowed"
  }
}
```

Response Code 500 (Internal Server Error)

```
{
  "data": null,
  "error": {
    "code": 500,
    "message": "Internal server error",
    "status": "Internal Server Error"
  }
}
```

Site APIs

Add Site

HTTP

URL: <https://api.cloud.taranawireless.com/v1/network/regions/<regionName>/markets/<marketName>/sites>

HTTP Method: POST

Request Body

```
{
  "name": "string",
  "networkProfile": 0,
  "notes": "string",
  "contactPerson": "string",
  "email": "string",
  "address": "string",
  "latitude": 0,
  "longitude": 0
}
```

Request Parameter Definitions

Parameter Name	Datatype	Mandatory	Possible Input/Validation
regionName	String	Yes	Must be non-empty
marketName	String	Yes	Must be non-empty
name	String	Yes	Must be non-empty Should not has whitespace at the beginning and end Allowed length is between 2 to 64 Followed by regex - <code>^[A-Za-z0-9]([a-zA-Z0-9] [-_.&])*</code>
networkProfile	Integer	No	1,2,5,6
notes	String	No	
contactPerson	String	No	
email	String	No	
address	String	No	
latitude	Double	Yes	Latitude must be between -90d to 90d Default: 0.0
longitude	Double	Yes	Longitude must be between -180d to 180d Default: 0.0

Response Codes

TCS responds with one of the following response codes:

Response Code 201 (Created)

```
{
  "data": {
    "id": 0,
    "name": "string",
    "marketId": 0,
    "marketName": "string",
    "networkProfile": 0,
    "notes": "string",
    "contactPerson": "string",
    "email": "string",
    "address": "string",
    "latitude": 0.0,
    "longitude": 0.0
  },
  "error": null
}
```

Response Code 400 (Bad Request)

```
{
  "data": null,
  "error": {
    "code": 400,
    "message": "<MESSAGE>",
    "status": "Bad Request"
  }
}
```

Response Code 403 (Forbidden)

```
{
  "message": "Forbidden"
}
```

Response Code 404 (Not Found)

```
{
  "data": null,
  "error": {
    "code": 404,
    "message": "<MESSAGE>",
    "status": "Not found"
  }
}
```

Response Code 500 (Internal Server Error)

```
{
  "data": null,
  "error": {
    "code": 500,
    "message": "Internal server error",
    "status": "Internal Server Error"
  }
}
```


Get Site details

HTTP

URL: <https://api.cloud.taranawireless.com/v1/network/regions/<regionName>/markets/<marketName>/sites/<siteName>>

HTTP Method: GET

Request Body

This request requires no body.

Request Parameter Definitions

Parameter Name	Datatype	Mandatory	Possible Input/Validation
regionName	String	Yes	Must be non-empty
marketName	String	Yes	Must be non-empty
siteName	String	Yes	Must be non-empty

Response Codes

TCS responds with one of the following response codes:

Response Code 200 (OK)

```
{
  "data": {
    "id": 0,
    "name": "string",
    "marketId": 0,
    "marketName": "string",
    "networkProfile": 0,
    "notes": "string",
    "contactPerson": "string",
    "email": "string",
    "address": "string",
    "latitude": 0.0,
    "longitude": 0.0
  },
  "error": null
}
```

Response Code 400 (Bad Request)

```
{
  "data": null,
  "error": {
    "code": 400,
    "message": "<MESSAGE>",
    "status": "Bad Request"
  }
}
```

Response Code 403 (Forbidden)

```
{
  "message": "Forbidden"
}
```

Response Code 404 (Not Found)

```
{
  "data": null,
  "error": {
    "code": 404,
    "message": "<MESSAGE>",
    "status": "Not found"
  }
}
```

Response Code 500 (Internal Server Error)

```
{
  "data": null,
  "error": {
    "code": 500,
    "message": "Internal server error",
    "status": "Internal Server Error"
  }
}
```

Get All Sites

HTTP

URL: <https://api.cloud.taranawireless.com/v1/network/regions/<regionName>/markets/<marketName>/sites?offset=&count=&sortBy=&order=>

HTTP Method: GET

Request Body

This request requires no body.

Request Parameter Definitions

Parameter Name	Datatype	Mandatory	Possible Input/Validation
regionName	String	Yes	Must be non-empty
marketName	String	Yes	Must be non-empty
offset	Integer	No	Default: 0
count	Integer	No	Default: 10
sortBy	String	No	Default: Id
order	String	No	Possible values: ["asc", "desc"]

Response Codes

TCS responds with one of the following response codes:

Response Code 200 (OK)

```
{
  "data": {
    "items": [
      {
        "id": 0,
        "name": "string",
        "marketId": 0,
        "marketName": "string",
        "networkProfile": 0,
        "notes": "string",
        "contactPerson": "string",
        "email": "string",
        "address": "string",
        "latitude": 0.0,
        "longitude": 0.0
      }
    ],
    "count": 0,
    "offset": 0,
    "totalCount": 0
  },
  "error": null
}
```

Response Code 400 (Bad Request)

```
{
  "data": null,
  "error": {
    "code": 400,
    "message": "<MESSAGE>",
    "status": "Bad Request"
  }
}
```

Response Code 403 (Forbidden)

```
{
  "message": "Forbidden"
}
```

Response Code 404 (Not Found)

```
{
  "data": null,
  "error": {
    "code": 404,
    "message": "<MESSAGE>",
    "status": "Not found"
  }
}
```

Response Code 500 (Internal Server Error)

```
{
  "data": null,
  "error": {
    "code": 500,
    "message": "Internal server error",
    "status": "Internal Server Error"
  }
}
```


Update Site

HTTP

URL: <https://api.cloud.taranawireless.com/v1/network/regions/<regionName>/markets/<marketName>/sites/<siteName>>

HTTP Method: PUT

Request Body

```
{
  "name": "string",
  "networkProfile": 0,
  "notes": "string",
  "contactPerson": "string",
  "email": "string",
  "address": "string",
  "latitude": 0,
  "longitude": 0
}
```

Request Parameter Definitions

Parameter Name	Datatype	Mandatory	Possible Input/Validation
regionName	String	Yes	Must be non-empty
marketName	String	Yes	Must be non-empty
siteName	String	Yes	Must be non-empty
name	String	Yes	Must be non-empty Should not has whitespace at the beginning and end Allowed length is between 2 to 64 Followed by regex - <code>^[A-Za-z0-9]([a-zA-Z0-9] [-_.&])*\$</code>
networkProfile	Integer	No	Null (default), 1, 2, 5, 6
notes	String	No	
contactPerson	String	No	
email	String	No	
address	String	No	
latitude	Double	Yes	Latitude must be between -90d to 90d Default: 0.0
longitude	Double	Yes	Longitude must be between -180d to 180d Default: 0.0

Response Codes

TCS responds with one of the following response codes:

Response Code 200 (OK)

```
{
  "data": {
    "id": 0,
    "name": "string",
    "marketId": 0,
    "marketName": "string",
    "networkProfile": 0,
    "notes": "string",
    "contactPerson": "string",
    "email": "string",
    "address": "string",
    "latitude": 0.0,
    "longitude": 0.0
  },
  "error": null
}
```

Response Code 400 (Bad Request)

```
{
  "data": null,
  "error": {
    "code": 400,
    "message": "<MESSAGE>",
    "status": "Bad Request"
  }
}
```

Response Code 403 (Forbidden)

```
{
  "message": "Forbidden"
}
```

Response Code 404 (Not Found)

```
{
  "data": null,
  "error": {
    "code": 404,
    "message": "<MESSAGE>",
    "status": "Not found"
  }
}
```

Response Code 500 (Internal Server Error)

```
{
  "data": null,
  "error": {
    "code": 500,
    "message": "Internal server error",
    "status": "Internal Server Error"
  }
}
```


Update Site (PATCH)

HTTP

URL: <https://api.cloud.taranawireless.com/v1/network/regions/<regionName>/markets/<marketName>/sites/<siteName>>

HTTP Method: PATCH

Request Body

```
{
  "address": "1000, Washington Street, Some City",
  "latitude": 0.0,
  "longitude": 0.0
}
```

Request Parameter Definitions

Parameter Name	Datatype	Mandatory	Possible Input/Validation
regionName	String	Yes	Must be non-empty
marketName	String	Yes	Must be non-empty
siteName	String	Yes	Must be non-empty
name	String	No	Must be non-empty
networkProfile	Integer	No	1,2,5,6
notes	String	No	
contactPerson	String	No	
email	String	No	
address	String	No	
latitude	Double	No	Latitude must be between -90d to 90d
longitude	Double	No	Longitude must be between -180d to 180d

Response Codes

TCS responds with one of the following response codes:

Response Code 200 (OK)

```
{
  "data": {
    "id": 0,
    "name": "string",
    "marketId": 0,
    "marketName": "string",
    "networkProfile": 0,
    "notes": "string",
    "contactPerson": "string",
    "email": "string",
    "address": "string",
    "latitude": 0,
    "longitude": 0
  },
  "error": null
}
```


Response Code 400 (Bad Request)

```
{
  "data": null,
  "error": {
    "code": 400,
    "message": "<MESSAGE>",
    "status": "Bad Request"
  }
}
```

Response Code 403 (Forbidden)

```
{
  "message": "Forbidden"
}
```

Response Code 404 (Not Found)

```
{
  "data": null,
  "error": {
    "code": 404,
    "message": "<MESSAGE>",
    "status": "Not found"
  }
}
```

Response Code 500 (Internal Server Error)

```
{
  "data": null,
  "error": {
    "code": 500,
    "message": "Internal server error",
    "status": "Internal Server Error"
  }
}
```

Delete Site

HTTP

URL: <https://api.cloud.taranawireless.com/v1/network/regions/<regionName>/markets/<marketName>/sites/<siteName>>

HTTP Method: DELETE

Request Body

This request requires no body.

Request Parameter Definitions

Parameter Name	Datatype	Mandatory	Possible Input/Validation
regionName	String	Yes	Must be non-empty
marketName	String	Yes	Must be non-empty
siteName	String	Yes	Must be non-empty

Response Codes

TCS responds with one of the following response codes:

Response Code 200 (OK)

```
{
  "data": {
    "id": 0,
    "name": "string",
    "marketId": 0,
    "marketName": "string",
    "networkProfile": 0,
    "notes": "string",
    "contactPerson": "string",
    "email": "string",
    "address": "string",
    "latitude": 0.0,
    "longitude": 0.0
  },
  "error": null
}
```

Response Code 400 (Bad Request)

```
{
  "data": null,
  "error": {
    "code": 400,
    "message": "<MESSAGE>",
    "status": "Bad Request"
  }
}
```

Response Code 403 (Forbidden)

```
{
  "message": "Forbidden"
}
```

Response Code 404 (Not Found)

```
{
  "data": null,
  "error": {
    "code": 404,
    "message": "<MESSAGE>",
    "status": "Not found"
  }
}
```

Response Code 405 (Method Not Allowed)

```
{
  "data": null,
  "error": {
    "code": 405,
    "message": "HTTP 405 Method Not Allowed",
    "status": "Not Allowed"
  }
}
```

Response Code 500 (Internal Server Error)

```
{
  "data": null,
  "error": {
    "code": 500,
    "message": "Internal server error",
    "status": "Internal Server Error"
  }
}
```


Cell APIs

Add Cell

HTTP

URL: <https://api.cloud.taranawireless.com/v1/network/regions/<regionName>/markets/<marketName>/sites/<siteName>/cells>

HTTP Method: POST

Request Body

```
{
  "networkId": 0,
  "radioSetId": 0,
  "name": "string",
  "notes": "string",
  "networkProfile": 0,
  "band": "string"
}
```

Request Parameter Definitions

Parameter Name	Datatype	Mandatory	Possible Input/Validation
regionName	String	Yes	Must be non-empty
marketName	String	Yes	Must be non-empty
siteName	String	Yes	Must be non-empty
networkId	Integer	Yes	networkId must be specified networkId must be between 0 to 23, inclusive
radioSetId	Integer	No	radioSetId must be between 1 to 1 inclusive
name	String	Yes	Must be non-empty Should not has whitespace at the beginning and end Allowed length is between 2 to 64 Followed by regex - <code>^[A-Za-z0-9]([a-zA-Z0-9] [-_.&])*\$</code>
notes	String	No	
networkProfile	Integer	No	Null (default), 1, 2, 5, 6
band	String	No	3ghz, 5ghz (default)

Response Codes

TCS responds with one of the following response codes:

Response Code 201 (Created)

```
{
  "data": {
    "id": 0,
    "name": "string",
    "networkId": 0,
    "siteId": 0,
    "siteName": "string",
    "radioSetId": 0,
    "notes": "string",
    "networkProfile": 0,
    "band": "string",
    "isChrsCell": true
  },
  "error": null
}
```

Response Code 400 (Bad Request)

```
{
  "data": null,
  "error": {
    "code": 400,
    "message": "<MESSAGE>",
    "status": "Bad Request"
  }
}
```

Response Code 403 (Forbidden)

```
{
  "message": "Forbidden"
}
```

Response Code 404 (Not Found)

```
{
  "data": null,
  "error": {
    "code": 404,
    "message": "<MESSAGE>",
    "status": "Not found"
  }
}
```

Response Code 500 (Internal Server Error)

```
{
  "data": null,
  "error": {
    "code": 500,
    "message": "Internal server error",
    "status": "Internal Server Error"
  }
}
```

Get Cell Details

HTTP

URL: <https://api.cloud.taranawireless.com/v1/network/regions/<regionName>/markets/<marketName>/sites/<siteName>/cells/<cellName>>

HTTP Method: GET

Request Body

This request requires no body.

Request Parameter Definitions

Parameter Name	Datatype	Mandatory	Possible Input/Validation
regionName	String	Yes	Must be non-empty
marketName	String	Yes	Must be non-empty
siteName	String	Yes	Must be non-empty

Response Codes

TCS responds with one of the following response codes:

Response Code 200 (OK)

```
{
  "data": {
    "id": 0,
    "name": "string",
    "networkId": 0,
    "siteId": 0,
    "siteName": "string",
    "radioSetId": 0,
    "notes": "string",
    "networkProfile": 0,
    "band": "string",
    "isCbrsCell": true
  },
  "error": null
}
```

Response Code 400 (Bad Request)

```
{
  "data": null,
  "error": {
    "code": 400,
    "message": "<MESSAGE>",
    "status": "Bad Request"
  }
}
```

Response Code 403 (Forbidden)

```
{
  "message": "Forbidden"
}
```

Response Code 404 (Not Found)

```
{
  "data": null,
  "error": {
    "code": 404,
    "message": "<MESSAGE>",
    "status": "Not found"
  }
}
```

Response Code 500 (Internal Server Error)

```
{
  "data": null,
  "error": {
    "code": 500,
    "message": "Internal server error",
    "status": "Internal Server Error"
  }
}
```

Get All Cells

HTTP

URL: <https://api.cloud.taranawireless.com/v1/network/regions/<regionName>/markets/<marketName>/sites/<siteName>/cells?offset=&count=&sortBy=&order=>

HTTP Method: GET

Request Body

This request requires no body.

Request Parameter Definitions

Parameter Name	Datatype	Mandatory	Possible Input/Validation
regionName	String	Yes	Must be non-empty
marketName	String	Yes	Must be non-empty
siteName	String	Yes	Must be non-empty
offset	Integer	No	Default: 0
count	Integer	No	Default: 10
sortBy	String	No	Default: Id
order	String	No	Possible values: ["asc", "desc"]

Response Codes

TCS responds with one of the following response codes:

Response Code 200 (OK)

```
{
  "data": {
    "items": [
      {
        "id": 0,
        "name": "string",
        "networkId": 0,
        "siteId": 0,
        "siteName": "string",
        "radioSetId": 0,
        "notes": "string",
        "networkProfile": 0,
        "band": "string",
        "isCbrsCell": true
      },
    ],
    "count": 0,
    "offset": 0,
    "totalCount": 0
  },
  "error": null
}
```

Response Code 400 (Bad Request)

```
{
  "data": null,
  "error": {
    "code": 400,
    "message": "<MESSAGE>",
    "status": "Bad Request"
  }
}
```

Response Code 403 (Forbidden)

```
{
  "message": "Forbidden"
}
```

Response Code 404 (Not Found)

```
{
  "data": null,
  "error": {
    "code": 404,
    "message": "<MESSAGE>",
    "status": "Not found"
  }
}
```

Response Code 500 (Internal Server Error)

```
{
  "data": null,
  "error": {
    "code": 500,
    "message": "Internal server error",
    "status": "Internal Server Error"
  }
}
```

Update Cell

HTTP

URL: <https://api.cloud.taranawireless.com/v1/network/regions/<regionName>/markets/<marketName>/sites/<siteName>/cells/<cellName>>

HTTP Method: PUT

Request Body

```
{
  "networkId": 0,
  "radioSetId": 0,
  "name": "string",
  "notes": "string",
  "networkProfile": 0,
  "band": "string"
}
```

Request Parameter Definitions

Parameter Name	Datatype	Mandatory	Possible Input/Validation
regionName	String	Yes	Must be non-empty
marketName	String	Yes	Must be non-empty
siteName	String	Yes	Must be non-empty
cellName	String	Yes	Must be non-empty
networkId	Integer	Yes	networkId must be specified networkId must be between 0 to 23, inclusive
radioSetId	Integer	No	radioSetId must be between 1 and 1
name	String	Yes	Must be non-empty Should not has whitespace at the beginning and end Allowed length is between 2 to 64 Followed by regex - <code>^[A-Za-z0-9]([a-zA-Z0-9] [-_.&])*\$</code>
notes	String	No	
networkProfile	Integer	No	Null (default), 1, 2, 5, 6
band	String	No	3ghz,5ghz

Response Codes

TCS responds with one of the following response codes:

Response Code 200 (OK)

```
{
  "data": {
    "id": 0,
    "name": "string",
    "networkId": 0,
    "siteId": 0,
    "siteName": "string",
    "radioSetId": 0,
    "notes": "string",
    "networkProfile": 0,
    "band": "string",
    "isChrsCell": true
  },
  "error": null
}
```

Response Code 400 (Bad Request)

```
{
  "data": null,
  "error": {
    "code": 400,
    "message": "<MESSAGE>",
    "status": "Bad Request"
  }
}
```

Response Code 403 (Forbidden)

```
{
  "message": "Forbidden"
}
```

Response Code 404 (Not Found)

```
{
  "data": null,
  "error": {
    "code": 404,
    "message": "<MESSAGE>",
    "status": "Not found"
  }
}
```

Response Code 405 (Method Not Allowed)

```
{
  "data": null,
  "error": {
    "code": 405,
    "message": "HTTP 405 Method Not Allowed",
    "status": "Method Not Allowed"
  }
}
```


Response Code 500 (Internal Server Error)

```
{
  "data": null,
  "error": {
    "code": 500,
    "message": "Internal server error",
    "status": "Internal Server Error"
  }
}
```

Update Cell (PATCH)

HTTP

URL: <https://api.cloud.taranawireless.com/v1/network/regions/<regionName>/markets/<marketName>/sites/<siteName>/cells/<cellName>>

HTTP Method: PATCH

Request Body

```
{
  "additionalProp1": {},
  "additionalProp2": {},
  "additionalProp3": {}
}
```

Request Parameter Definitions

Parameter Name	Datatype	Mandatory	Possible Input/Validation
regionName	String	Yes	Must be non-empty
marketName	String	Yes	Must be non-empty
siteName	String	Yes	Must be non-empty
cellName	String	Yes	Must be non-empty
networkId	Integer	No	networkId must be specified networkId must be between 0 to 23, inclusive
radioSetId	Integer	No	radioSetId must be between 1 to 1, inclusive
name	String	No	Must be non-empty Should not has whitespace at the beginning and end Allowed length is between 2 to 64 Followed by regex - <code>^[A-Za-z0-9]([a-zA-Z0-9] [-_.&])*\$</code>
notes	String	No	
networkProfile	Integer	No	1, 2, 5, 6
band	String	No	3ghz, 5ghz

Response Codes

TCS responds with one of the following response codes:

Response Code 200 (OK)

```
{
  "data": {
    "id": 0,
    "name": "string",
    "networkId": 0,
    "siteId": 0,
    "siteName": "string",
    "radioSetId": 0,
    "notes": "string",
    "networkProfile": 0,
    "band": "string",
    "isChrsCell": true
  },
  "error": null
}
```

Response Code 400 (Bad Request)

```
{
  "data": null,
  "error": {
    "code": 400,
    "message": "<MESSAGE>",
    "status": "Bad Request"
  }
}
```

Response Code 403 (Forbidden)

```
{
  "message": "Forbidden"
}
```

Response Code 404 (Not Found)

```
{
  "data": null,
  "error": {
    "code": 404,
    "message": "<MESSAGE>",
    "status": "Not found"
  }
}
```

Response Code 500 (Internal Server Error)

```
{
  "data": null,
  "error": {
    "code": 500,
    "message": "Internal server error",
    "status": "Internal Server Error"
  }
}
```

Delete Cell

HTTP

URL: <https://api.cloud.taranawireless.com/v1/network/regions/<regionName>/markets/<marketName>/sites/<siteName>/cells/<cellName>>

HTTP Method: DELETE

Request Body

This request requires no body.

Request Parameter Definitions

Parameter Name	Datatype	Mandatory	Possible Input/Validation
regionName	String	Yes	Must be non-empty
marketName	String	Yes	Must be non-empty
siteName	String	Yes	Must be non-empty

Response Codes

TCS responds with one of the following response codes:

Response Code 200 (OK)

```
{
  "data": {
    "id": 0,
    "name": "string",
    "networkId": 0,
    "siteId": 0,
    "siteName": "string",
    "radioSetId": 0,
    "notes": "string",
    "networkProfile": 0,
    "band": "string",
    "isCbrsCell": true
  },
  "error": null
}
```

Response Code 400 (Bad Request)

```
{
  "data": null,
  "error": {
    "code": 400,
    "message": "<MESSAGE>",
    "status": "Bad Request"
  }
}
```

Response Code 403 (Forbidden)

```
{
  "message": "Forbidden"
}
```

Response Code 404 (Not Found)

```
{
  "data": null,
  "error": {
    "code": 404,
    "message": "<MESSAGE>",
    "status": "Not found"
  }
}
```

Response Code 405 (Method Not Allowed)

```
{
  "data": null,
  "error": {
    "code": 405,
    "message": "HTTP 405 Method Not Allowed",
    "status": "Method Not Allowed"
  }
}
```

Response Code 500 (Internal Server Error)

```
{
  "data": null,
  "error": {
    "code": 500,
    "message": "Internal server error",
    "status": "Internal Server Error"
  }
}
```

Sector APIs

Add Sector

HTTP

URL: <https://api.cloud.taranawireless.com/v1/network/regions/<regionName>/markets/<marketName>/sites/<siteName>/cells/<cellName>/sectors>

HTTP Method: POST

Request Body

```
{
  "name": "string",
  "networkProfile": 0,
  "notes": "string",
  "slaClassificationType": "string",
  "carriers": [
    {
      "frequency": 0,
      "channelWidth": 0,
      "enabled": true
    },
    {
      "frequency": 0,
      "channelWidth": 0,
      "enabled": true
    }
  ],
  "rnTransmitPower": 0,
  "bnTransmitPower": 0,
  "primaryBNEEnabled": true
}
```

Request Parameter Definitions

Parameter Name	Datatype	Mandatory	Possible Input/Validation
regionName	String	Yes	Must be non-empty
marketName	String	Yes	Must be non-empty
siteName	String	Yes	Must be non-empty
cellName	String	Yes	Must be non-empty
name	String	Yes	Must be non-empty Should not has whitespace at the beginning and end Allowed length is between 2 to 64 Followed by regex - <code>^[A-Za-z0-9]([a-zA-Z0-9] [-_&])*\$</code>
networkProfile	Integer	No	Null (default), 1, 2, 5, 6
notes	String	No	
slaClassificationType	String	No	slaClassificationType must be one of the following: dscp, cos-inner (default)
carriers	Array	Yes	Only two elements of the array are allowed. Both must be provided.

frequency	Integer	No	CbrrCarrier Carrier <X>.frequency must be null, as this sector is in a cbrs cell Non-CbrrCarrier Carrier<X> must be specified
channelWidth	Integer	No	CbrrCarrier Carrier <X>.channelWidth must be null, as this sector is in a cbrs cell Non-CbrrCarrier Carrier<X>.channelWidth must be specified
enabled	Boolean	No	CbrrCarrier Carrier <X>.enabled must be null, as this sector is in a cbrs cell Non-CbrrCarrier Carrier<X>.enabled must be specified
rnTransmitPower	Float	No	maxRnTransmitPower should be between 0 to 30
bnTransmitPower	Float	No	maxTransmitPower is applicable only for non-cbrr sector maxBnTransmitPower should be between 0 to 30
primaryBNEnabled	Boolean	No	

Response Codes

TCS responds with one of the following response codes:

Response Code 201 (Created)

```
{
  "data": {
    "cellId": 0,
    "name": "string",
    "radioOperatorId": 0,
    "networkProfile": 0,
    "notes": "string",
    "assignedBN": "string",
    "slaClassificationType": "string",
    "carrier1": {
      "frequency": 0,
      "channelWidth": 0,
      "enabled": true
    },
    "carrier2": {
      "frequency": 0,
      "channelWidth": 0,
      "enabled": true
    },
    "rnTransmitPower": 0,
    "bnTransmitPower": 0,
    "primaryBNEnabled": true,
    "autoReconnectToPrimaryBnEnabled": true,
    "dhcpRelayAgentEnabled": false,
    "circuitIdentifierType": "string"
  }
}
```

```
    },  
    "error": null  
}
```


Response Code 400 (Bad Request)

```
{
  "data": null,
  "error": {
    "code": 400,
    "message": "<MESSAGE>",
    "status": "Bad Request"
  }
}
```

Response Code 403 (Forbidden)

```
{
  "message": "Forbidden"
}
```

Response Code 404 (Not Found)

```
{
  "data": null,
  "error": {
    "code": 404,
    "message": "<MESSAGE>",
    "status": "Not found"
  }
}
```

Response Code 500 (Internal Server Error)

```
{
  "data": null,
  "error": {
    "code": 500,
    "message": "Internal server error",
    "status": "Internal Server Error"
  }
}
```

Get Sector Details

HTTP

URL: <https://api.cloud.taranawireless.com/v1/network/regions/<regionName>/markets/<marketName>/sites/<siteName>/cells/<cellName>/sectors/<sectorName>>

HTTP Method: GET

Request Body

This request requires no body.

Request Parameter Definitions

Parameter Name	Datatype	Mandatory	Possible Input/Validation
regionName	String	Yes	Must be non-empty
marketName	String	Yes	Must be non-empty
siteName	String	Yes	Must be non-empty
cellName	String	Yes	Must be non-empty
sectorName	String	Yes	Must be non-empty

Response Codes

TCS responds with one of the following response codes:

Response Code 200 (OK)

```
{
  "data": {
    "cellId": 0,
    "name": "string",
    "radioOperatorId": 0,
    "networkProfile": 0,
    "notes": "string",
    "assignedBN": "string",
    "slaClassificationType": "string",
    "carrier1": {
      "frequency": 0,
      "channelWidth": 0,
      "enabled": true
    },
    "carrier2": {
      "frequency": 0,
      "channelWidth": 0,
      "enabled": true
    },
    "rnTransmitPower": 0,
    "bnTransmitPower": 0,
    "primaryBNEnabled": true,
    "dhcpRelayAgentEnabled": false,
    "circuitIdentifierType": "string",
    "autoReconnectToPrimaryBnEnabled": true,
  },
  "error": null
}
```

Response Code 400 (Bad Request)

```
{
  "data": null,
  "error": {
    "code": 400,
    "message": "<MESSAGE>",
    "status": "Bad Request"
  }
}
```

Response Code 403 (Forbidden)

```
{
  "message": "Forbidden"
}
```

Response Code 404 (Not Found)

```
{
  "data": null,
  "error": {
    "code": 404,
    "message": "<MESSAGE>",
    "status": "Not found"
  }
}
```

Response Code 500 (Internal Server Error)

```
{
  "data": null,
  "error": {
    "code": 500,
    "message": "Internal server error",
    "status": "Internal Server Error"
  }
}
```

Get All Sectors

HTTP

URL: <https://api.cloud.taranawireless.com/v1/network/regions/<regionName>/markets/<marketName>/sites/<siteName>/cells/<cellName>/sectors?offset=&count=&sortBy=&order=>

HTTP Method: GET

Request Body

This request requires no body.

Request Parameter Definitions

Parameter Name	Datatype	Mandatory	Possible Input/Validation
regionName	String	Yes	Must be non-empty
marketName	String	Yes	Must be non-empty
siteName	String	Yes	Must be non-empty
cellName	String	Yes	Must be non-empty
offset	Integer	No	Default: 0
count	Integer	No	Default: 10
sortBy	String	No	Default: Id
order	String	No	Possible values: ["asc", "desc"]

Response Codes

TCS responds with one of the following response codes:

Response Code 200 (OK)

```
{
  "data": {
    "items": [
      {
        "cellId": 0,
        "name": "string",
        "radioOperatorId": 0,
        "networkProfile": 0,
        "notes": "string",
        "assignedBN": "string",
        "slaClassificationType": "string",
        "carrier1": {
          "frequency": 0,
          "channelWidth": 0,
          "enabled": true
        },
        "carrier2": {
          "frequency": 0,
          "channelWidth": 0,
          "enabled": true
        },
        "rnTransmitPower": 0,
        "bnTransmitPower": 0,
        "primaryBNEnabled": true,
        "autoReconnectToPrimaryBnEnabled":
      true,
    ]
  }
}
```

```

        "dhcpRelayAgentEnabled": false,
        "circuitIdentifierType": "string"
    },
    ],
    "count": 0,
    "offset": 0,
    "totalCount": 0
},
"error": null
}

```

Response Code 201 (Created)

CODE

Response Code 400 (Bad Request)

```

{
  "data": null,
  "error": {
    "code": 400,
    "message": "<MESSAGE>",
    "status": "Bad Request"
  }
}

```

Response Code 403 (Forbidden)

```

{
  "message": "Forbidden"
}

```

Response Code 404 (Not Found)

```

{
  "data": null,
  "error": {
    "code": 404,
    "message": "<MESSAGE>",
    "status": "Not found"
  }
}

```

Response Code 500 (Internal Server Error)

```

{
  "data": null,
  "error": {
    "code": 500,
    "message": "Internal server error",
    "status": "Internal Server Error"
  }
}

```

Update Sector

HTTP

URL: <https://api.cloud.taranawireless.com/v1/network/regions/<regionName>/markets/<marketName>/sites/<siteName>/cells/<cellName>/sector/<sectorName>>

HTTP Method: PUT

Request Body

```
{
  "name": "string",
  "notes": "string",
  "slaClassificationType": "string",
  "carriers": [
    {
      "frequency": 0,
      "channelWidth": 0,
      "enabled": true
    },
    {
      "frequency": 0,
      "channelWidth": 0,
      "enabled": true
    }
  ],
  "rnTransmitPower": 0,
  "bnTransmitPower": 0,
  "primaryBNEEnabled": true
}
```

Request Parameter Definitions

Parameter Name	Datatype	Mandatory	Possible Input/Validation
regionName	String	Yes	Must be non-empty
marketName	String	Yes	Must be non-empty
siteName	String	Yes	Must be non-empty
cellName	String	Yes	Must be non-empty
sectorName	String	Yes	Must be non-empty
name	String	Yes	Must be non-empty Should not has whitespace at the beginning and end Allowed length is between 2 to 64 Followed by regex - <code>^[A-Za-z0-9]([a-zA-Z0-9] [-_.&])*\$</code>
networkProfile	Integer	No	1,2,5,6
notes	String	No	
slaClassificationType	String	Yes	slaClassificationType must be one of the following: dscp,cos-inner
carriers	Array	Yes	Only two elements of the array are allowed. Both must be provided.
frequency	Integer	No	CbrsCarrier

			Carrier <X>.frequency must be null, as this sector is in a cbrs cell Non-CbrsCarrier Carrier<X> must be specified
channelWidth	Integer	No	CbrsCarrier Carrier <X>.channelWidth must be null, as this sector is in a cbrs cell Non-CbrsCarrier Carrier<X>.channelWidth must be specified
enabled	Boolean	No	CbrsCarrier Carrier <X>.enabled must be null, as this sector is in a cbrs cell Non-CbrsCarrier Carrier<X>.enabled must be specified
rnTransmitPower	Float	No	maxRnTransmitPower should be between 0 to 30
bnTransmitPower	Float	No	maxTransmitPower is applicable only for non-cbrs sector maxBnTransmitPower should be between 0 to 30
primaryBnEnabled	Boolean	No	

Response Codes

TCS responds with one of the following response codes:

Response Code 200 (OK)

```
{
  "data": {
    "cellId": 0,
    "name": "string",
    "radioOperatorId": 0,
    "networkProfile": 0,
    "notes": "string",
    "assignedBN": "string",
    "slaClassificationType": "string",
    "carrier1": {
      "frequency": 0,
      "channelWidth": 0,
      "enabled": true
    },
    "carrier2": {
      "frequency": 0,
      "channelWidth": 0,
      "enabled": true
    },
    "rnTransmitPower": 0,
    "bnTransmitPower": 0,
    "primaryBnEnabled": true,
    "autoReconnectToPrimaryBnEnabled": true,
    "dhcpRelayAgentEnabled": false,
    "circuitIdentifierType": "string"
  },
}
```

```
"error": null  
}
```


Response Code 400 (Bad Request)

```
{
  "data": null,
  "error": {
    "code": 400,
    "message": "<MESSAGE>",
    "status": "Bad Request"
  }
}
```

Response Code 403 (Forbidden)

```
{
  "message": "Forbidden"
}
```

Response Code 404 (Not Found)

```
{
  "data": null,
  "error": {
    "code": 404,
    "message": "<MESSAGE>",
    "status": "Not found"
  }
}
```

Response Code 500 (Internal Server Error)

```
{
  "data": null,
  "error": {
    "code": 500,
    "message": "Internal server error",
    "status": "Internal Server Error"
  }
}
```

Update Sector (PATCH)

HTTP

URL: <https://api.cloud.taranawireless.com/v1/network/regions/<regionName>/markets/<marketName>/sites/<siteName>/cells/<cellName>/sector/<sectorName>>

HTTP Method: PATCH

Request Body

```
{
  "assignedBN": "SN000000",
  "primaryBNEabled": true,
  "bnTransmitPower": 10
}
```

Request Parameter Definitions

Parameter Name	Datatype	Mandatory	Possible Input/Validation
regionName	String	Yes	Must be non-empty
marketName	String	Yes	Must be non-empty
siteName	String	Yes	Must be non-empty
cellName	String	Yes	Must be non-empty
sectorName	String	Yes	Must be non-empty
name	String	No	Must be non-empty Should not has whitespace at the beginning and end Allowed length is between 2 to 64 Followed by regex - <code>^[A-Za-z0-9]([a-zA-Z0-9] [-_.&])*</code>
networkProfile	Integer	No	1,2,5,6
notes	String	No	
assignedBN	String	No	
slaClassificationType	String	No	slaClassificationType must be one of the following: dscp,cos-inner
carriers	Array	No	Only two elements of the array are allowed. Both must be provided.
frequency	Integer	No	CbrsCarrier Carrier <X>.frequency must be null, as this sector is in a cbrs cell Non-CbrsCarrier Carrier<X>.frequency must be specified
channelWidth	Integer	No	CbrsCarrier Carrier <X>.channelWidth must be null, as this sector is in a cbrs cell Non-CbrsCarrier Carrier<X>.channelWidth must be specified
enabled	Boolean	No	CbrsCarrier Carrier <X>.enabled must be null, as this sector is in a cbrs cell

			Non-CbrsCarrier Carrier<X>.enabled must be specified
rnTransmitPower	Float	No	maxRnTransmitPower should be between 0 to 30
bnTransmitPower	Float	No	maxTransmitPower is applicable only for non-cbrs sector maxBnTransmitPower should be between 0 to 30
primaryBNEnabled	Boolean	No	

Response Codes

TCS responds with one of the following response codes:

Response Code 200 (OK)

```
{
  "data": {
    "cellId": 0,
    "name": "string",
    "radioOperatorId": 0,
    "networkProfile": 0,
    "notes": "string",
    "assignedBN": "string",
    "slaClassificationType": "string",
    "carriers": [
      {
        "frequency": 0,
        "channelWidth": 0,
        "enabled": true
      },
      {
        "frequency": 0,
        "channelWidth": 0,
        "enabled": true
      }
    ],
    "rnTransmitPower": 0,
    "bnTransmitPower": 0,
    "primaryBNEnabled": true
  },
  "error": null
}
```

Response Code 400 (Bad Request)

```
{
  "data": null,
  "error": {
    "code": 400,
    "message": "<MESSAGE>",
    "status": "Bad Request"
  }
}
```

Response Code 403 (Forbidden)

```
{  
  "message": "Forbidden"  
}
```

Response Code 404 (Not Found)

```
{
  "data": null,
  "error": {
    "code": 404,
    "message": "<MESSAGE>",
    "status": "Not found"
  }
}
```

Response Code 500 (Internal Server Error)

```
{
  "data": null,
  "error": {
    "code": 500,
    "message": "Internal server error",
    "status": "Internal Server Error"
  }
}
```

Delete Sector

HTTP

URL: <https://api.cloud.taranawireless.com/v1/network/regions/<regionName>/markets/<marketName>/sites/<siteName>/cells/<cellName>/sectors/<sectorName>>

HTTP Method: DELETE

Request Body

This request requires no body.

Request Parameter Definitions

Parameter Name	Datatype	Mandatory	Possible Input/Validation
regionName	String	Yes	Must be non-empty
marketName	String	Yes	Must be non-empty
siteName	String	Yes	Must be non-empty
cellName	String	Yes	Must be non-empty
sectorName	String	Yes	Must be non-empty

Response Codes

TCS responds with one of the following response codes:

Response Code 200 (OK)

```
{
  "data": {
    "cellId": 0,
    "name": "string",
    "radioOperatorId": 0,
    "networkProfile": 0,
    "notes": "string",
    "assignedBN": "string",
    "slaClassificationType": "string",
    "carrier1": {
      "frequency": 0,
      "channelWidth": 0,
      "enabled": true
    },
    "carrier2": {
      "frequency": 0,
      "channelWidth": 0,
      "enabled": true
    },
    "rnTransmitPower": 0,
    "bnTransmitPower": 0,
    "primaryBNEnabled": true,
    "dhcpRelayAgentEnabled": false,
    "circuitIdentifierType": "string",
    "autoReconnectToPrimaryBnEnabled": true,
  },
  "error": null
}
```

Response Code 400 (Bad Request)

```
{
  "data": null,
  "error": {
    "code": 400,
    "message": "<MESSAGE>",
    "status": "Bad Request"
  }
}
```

Response Code 403 (Forbidden)

```
{
  "message": "Forbidden"
}
```

Response Code 404 (Not Found)

```
{
  "data": null,
  "error": {
    "code": 404,
    "message": "<MESSAGE>",
    "status": "Not found"
  }
}
```

Response Code 500 (Internal Server Error)

```
{
  "data": null,
  "error": {
    "code": 500,
    "message": "Internal server error",
    "status": "Internal Server Error"
  }
}
```

Assign Base Node to Sector

HTTP URL:

<https://api.cloud.taranawireless.com/v1/network/regions/<regionName>/markets/<marketName>/sites/<siteName>/cells/<cellName>/sectors/<sectorName>/assign-bn>

HTTP Method: PUT

Request Body

```
{
  "serialNumber": "string",
  "name": "string",
  "hostName": "string",
  "muteMode": false,
  "updatedBy": "string",
}
```

Request Parameter Definitions

Parameter Name	Datatype	Mandatory	Possible Input/Validation
regionName	String	Yes	Must be non-empty
marketName	String	Yes	Must be non-empty
siteName	String	Yes	Must be non-empty
cellName	String	Yes	Must be non-empty
sectorName	String	Yes	Must be non-empty
serialNumber	String	Yes	Must be non-empty
name	String	Yes	Must be non-empty
hostname	String	No	
muteMode	Boolean	No	
updatedBy	String	No	

Response Codes

TCS responds with one of the following response codes:

Response Code 200 (OK)

```
{
  "data": {
    "id": "string",
    "serialNumber": "string",
    "macAddress": "string",
    "type": "string",
    "sectorId": 0,
    "retailerId": 0,
    "retailerName": "string",
    "softwareVersion": "string",
    "ip": "string",
    "port": 0,
    "endpoints": {
      "grpc": {
        "ip": "string",
        "port": 0
      }
    }
  },
}
```



```

    "http": {
      "ip": "string",
      "port": 0
    },
    "web": {
      "ip": "string",
      "port": 0
    },
    "ssh": {
      "ip": "string",
      "port": 0
    }
  },
  "transportSecurity": true,
  "authenticated": true,
  "insecureMode": true,
  "masterId": "string",
  "masterName": "string",
  "installParams": {
    "latitude": 0,
    "longitude": 0,
    "height": 0,
    "heightAgl": 0,
    "antennaDowntilt": 0,
    "tilt": 0,
    "antennaAzimuth": 0
  },
  "address": "string",
  "bootTimeSeconds": 0,
  "uptimeSeconds": 0,
  "losRange": 0,
  "bootId": "string",
  "lastUpdateTimeSeconds": 0,
  "connected": true,
  "reachable": "string",
  "linkState": "string",
  "partNumber": "string",
  "loginBanner": "string",
  "activeBank": "string",
  "currentBank": "string",
  "bootReason": "string",
  "rebootMessage": "string",
  "rfBoardSerialNumber": "string",
  "rfBoardPartNumber": "string",
  "digiBoardSerialNumber": "string",
  "digiBoardPartNumber": "string",
  "ancestry": {
    "sector": {
      "id": 0,
      "name": 0
    }
  },
  "sectorDetails": {
    "id": 0,
    "name": "string",
    "networkId": 0,
    "cellId": 0,
    "cellName": "string",
    "radioOperatorId": 0,
    "networkProfile": 0,
    "notes": "string",
    "svLan": "string",
    "slaClassificationType": "string",
    "carrier1": {

```

```

        "frequency": 0,
        "channelWidth": 0,
        "enabled": true
    },
    "carrier2": {
        "frequency": 0,
        "channelWidth": 0,
        "enabled": true
    },
    "rnTransmitPower": 0,
    "bnTransmitPower": 0,
    "primaryBnEnabled": true,
    "autoReconnectToPrimaryBnEnabled": true,
    "dhcpRelayAgentEnabled": true,
    "circuitIdentifierType": "string"
},
"cell": {
    "id": 0,
    "name": 0
},
"cellDetails": {
    "id": 0,
    "name": "string",
    "networkId": 0,
    "siteId": 0,
    "siteName": "string",
    "radioSetId": 0,
    "notes": "string",
    "networkProfile": 0,
    "band": "string",
    "isCbrsCell": true
},
"site": {
    "id": 0,
    "name": "string",
    "marketId": 0,
    "marketName": "string",
    "networkProfile": 0,
    "notes": "string",
    "contactPerson": "string",
    "email": "string",
    "address": "string",
    "latitude": 0,
    "longitude": 0
},
"market": {
    "id": 0,
    "name": "string",
    "regionId": 0,
    "regionName": "string",
    "networkProfile": 0,
    "notes": "string",
    "contactPerson": "string",
    "email": "string"
},
"region": {
    "id": 0,
    "name": "string",
    "operatorId": 0,
    "operatorName": "string",
    "networkProfile": 0,
    "notes": "string",
    "contactPerson": "string",

```

```

    "email": "string",
    "regulatoryDomain": "string",
    "regulatoryCountry": "string"
  },
  "operator": {
    "id": 0,
    "name": "string",
    "logo": {
      "url": "string",
      "data": "string"
    },
    "radioOperatorId": 0,
    "notes": "string",
    "contactPerson": "string",
    "email": "string",
    "timeZone": "string",
    "fccOrId": "string",
    "slaProfiles": [
      {
        "profileId": "string",
        "name": "string",
        "peakBurstSize": 0,
        "peakRateMbps": 0
      }
    ],
    "sasProvider": "string",
    "customAttributeName1": "string",
    "customAttributeName2": "string",
    "softwareTags": [
      "string"
    ],
    "primaryBnEnabled": true,
    "autoReconnectToPrimaryBnEnabled": true
  }
},
"modelName": "string",
"lastChangeReason": "string",
"lastChangeReasonMessage": "string",
"softwareBanks": [
  {
    "name": "string",
    "softwareVersion": "string"
  }
],
"sectorName": "string",
"isOrphan": true,
"configPushEnabled": true,
"savedConfig": {
  "radioOperatorId": 0,
  "networkProfile": 0,
  "regulatoryDomain": "string",
  "regulatoryCountry": "string",
  "radioSetId": 0,
  "radioCellId": 0,
  "band": "string",
  "radioSectorId": 0,
  "svLan": "string",
  "slaClassificationType": "string",
  "hostName": "string",
  "muteMode": false,
  "managementSubnet": "string",
  "managementSubnetMask": "string",
  "carrier1": {

```

```

        "frequency": 0,
        "channelWidth": 0,
        "enabled": true
    },
    "carrier2": {
        "frequency": 0,
        "channelWidth": 0,
        "enabled": true
    },
    "slaProfile": "string",
    "slaProfiles": [
        {
            "profileId": "string",
            "name": "string",
            "peakBurstSize": 0,
            "peakRateMbps": 0
        }
    ],
    "latitude": 0,
    "longitude": 0,
    "heightAgl": 0,
    "antennaDowntilt": 0,
    "tilt": 0,
    "antennaAzimuth": 0,
    "dataVlan": 0,
    "rnTransmitPower": 0,
    "bnTransmitPower": 0,
    "primaryBn": "string",
    "primaryBnEnabled": true,
    "autoReconnectToPrimaryBnEnabled": true,
    "dhcpRelayAgentEnabled": true,
    "remoteIdentifierType": "string",
    "circuitIdentifierType": "string",
    "cpiId": "string"
},
"configMismatch": true,
"radioOperatorId": 0,
"networkProfile": 0,
"regulatoryDomain": "string",
"regulatoryCountry": "string",
"radioSetId": 0,
"radioCellId": 0,
"band": "string",
"radioSectorId": 0,
"svLan": "string",
"slaClassificationType": "string",
"hostName": "string",
"muteMode": false,
"managementSubnet": "string",
"managementSubnetMask": "string",
"carrier1": {
    "frequency": 0,
    "channelWidth": 0,
    "enabled": true
},
"carrier2": {
    "frequency": 0,
    "channelWidth": 0,
    "enabled": true
},
"slaProfile": "string",
"dataVlan": 0,
"managementVlan": 0,

```

```

    "cpiId": "string",
    "notes": "string",
    "isChrsDevice": true,
    "grantStatus": "string",
    "firstSeenTimeSeconds": 0,
    "updatedBy": "string",
    "customAttributes": {
      "additionalProp1": {},
      "additionalProp2": {},
      "additionalProp3": {}
    },
    "bnPriorityList": [
      {
        "serialNumber": "string",
        "preferredNetworkId": "string",
        "connectedTimeSeconds": 0
      }
    ],
    "primaryBn": "string",
    "previousPrimaryBn": "string",
    "lastDisconnectTimeNanos": 0,
    "downDurationMillis": 0,
    "excludeDurationMillis": 0,
    "connectionUptimeSeconds": 0,
    "dhcpRelayAgentEnabled": true,
    "remoteIdentifierType": "string",
    "circuitIdentifierType": "string",
    "warrantyStartSeconds": 0,
    "warrantyExpirySeconds": 0,
    "version": 0
  },
  "error": null
}

```

Response Code 400 (Bad Request)

```

{
  "data": null,
  "error": {
    "code": 400,
    "message": "Invalid inputs.",
    "status": "Bad Request"
  }
}

```

Response Code 403 (Forbidden)

```

{
  "data": null,
  "error": {
    "code": 403,
    "message": "Access forbidden",
    "status": "Forbidden"
  }
}

```

Response Code 404 (Not Found)

```

{
  "data": null,
  "error": {

```

```
    "code": 404,  
    "message": "<MESSAGE>",  
    "status": "Not found"  
  }  
}
```

Response Code 500 (Internal Server Error)

```
{  
  "data": null,  
  "error": {  
    "code": 500,  
    "message": "Internal server error",  
    "status": "Internal Server Error"  
  }  
}
```

Functional APIs

Fetch the Attributes of a Remote Node

HTTP URL:

`https://<API_GATEWAY_DOMAIN_NAME>/v1/network/radios/<DEVICE_SERIAL_NUMBER>`

HTTP Method: GET

Headers:

Content-Type: application/json

X-API-Key: API Key of the client

CURL:

```
curl -X GET \
https://<API_GATEWAY_DOMAIN_NAME>/v1/network/radios/<DEVICE_SERIAL_NUMBER> \
-H 'Content-Type: application/json' \
-H 'X-API-Key: <API Key of the client>'
```

Request Body

This request requires no body.

Response Codes

TCS responds with one of the following response codes:

Response Code 200 (OK)

```
{
  "data": {
    "hostname": "TW101",
    "uniqueId": "1234567",
    "macAddress" : "11:22:33:44:55",
    "softwareVersion" : "SYS.A3.P10.XXX.0.960.054.01",
    "firstSeenTimeSeconds" : "200",
    "sla-profile": "sla-200",
    "dataVlan" : "256",
    "primaryBn" : "bn 1",
    "latitude": "26.1045656",
    "longitude": "28.1234567",
    "heightAgl" : "1000.0",
    "antennaDowntilt" : "1000.0",
    "antennaAzimuth" : "1000.0",
    "retailerId" : "0",
    "retailerName" : "retailer",
    "hierarchy" : {
      "sector": {
        "id": 0,
        "name": "string"
      },
      "cell": {
        "id": 0,
        "name": "string"
      },
      "site": {
        "id": 0,
```

```

        "name": "string"
      },
      "market": {
        "id": 0,
        "name": "string"
      },
      "region": {
        "id": 0,
        "name": "string"
      },
      "operator": {
        "id": 0,
        "name": "string"
      }
    },
    "additionalData": {
      "key1": "value1",
      "key2": "value2",
    }
  },
  "error": null
}

```

Response Code 201 (Created)

CODE

Response Code 400 (Bad Request)

```

{
  "data": null,
  "error": {
    "code": 400,
    "message": "<MESSAGE>",
    "status": "Bad Request"
  }
}

```

Response Code 403 (Forbidden)

```

{
  "message": "Forbidden"
}

```

Response Code 404 (Not Found)

```

{
  "data": null,
  "error": {
    "code": 404,
    "message": "Device with Id <xxx> does not exist",
    "status": "Not Found"
  }
}

```

Response Code 500 (Internal Server Error)

```

{
  "data": null,
  "error": {

```



```

    "code": 500,
    "message": "Internal server error",
    "status": "Internal Server Error"
  }
}

```

Update Attributes of a Remote Node

The install parameter attributes (highlighted in blue) will be available in Jan 2023

HTTP URL:

https://<API_GATEWAY_DOMAIN_NAME>/v1/network/radios/<DEVICE_SERIAL_NUMBER>

HTTP Method: PATCH

Headers:

Content-Type: application/json
X-API-Key: API Key of the client

Request Body

```

{
  "hostname": "TW101",
  "sla-profile": "sla-200",
  "dataVlan" : "256",
  "primaryBn" : "bn 1",
  "latitude": "26.1045656",
  "longitude": "28.1234567",
  "heightAgl" : "1000.0",
  "antennaDowntilt" : "1000.0",
  "antennaAzimuth" : "1000.0",
  "retailerId" : "0",
  "retailerName" : "retailer"
  "additionalData": {
    "key1": "value1",
    "key2": "value2",
  }
}

```

CURL:

```

curl -X PATCH \
https://<API_GATEWAY_DOMAIN_NAME>/v1/network/radios/<DEVICE_SERIAL_NUMBER> \
-H 'Content-Type: application/json' \
-H 'X-API-Key: <API Key of the client>' \
-d '{
  "hostname": "TW101",
  "sla-profile": "sla-200",
  "dataVlan" : "256",
  "primaryBn" : "bn 1",
  "latitude": "26.1045656",
  "longitude": "28.1234567",
  "heightAgl" : "1000.0",
  "antennaDowntilt" : "1000.0",
  "antennaAzimuth" : "1000.0",
  "retailerId" : "0",
  "retailerName" : "retailer"
}'

```

Response Codes

TCS responds with one of the following response codes:

Response Code 202 (Accepted)

[EMPTY BODY]

Response Code 400 (Bad Request)

```
{
  "data": null,
  "error": {
    "code": 400,
    "message": "<MESSAGE>",
    "status": "Bad Request"
  }
}
```

Response Code 403 (Forbidden)

```
{
  "data": null,
  "error": {
    "code": 403,
    "message": "Access forbidden",
    "status": "Forbidden"
  }
}
```

Response Code 404 (Not Found)

```
{
  "data": null,
  "error": {
    "code": 404,
    "message": "Device with Id <xxx> does not exist",
    "status": "Not Found"
  }
}
```

Response Code 500 (Internal Server Error)

```
{
  "data": null,
  "error": {
    "code": 500,
    "message": "Internal server error",
    "status": "Internal Server Error"
  }
}
```

Device Attributes

Set Device Hostname

```
curl --location --request PATCH
'https://api.cloud.taranawireless.com/v1/network/radios/<SERIAL-NO>' \
--header 'Content-Type: application/json' \
--header 'x-api-key: <API-KEY>' \
--data-raw '{
  "hostname" : "ExampleRNName"
}'
```

Set Device Location

```
curl --location --request PATCH
'https://api.cloud.taranawireless.com/v1/network/radios/<SERIAL-NO>' \
--header 'Content-Type: application/json' \
--header 'x-api-key: <API-KEY>' \
--data-raw '{
  "latitude" : "40.741895",
  "longitude" : "-73.989308"
}'
```

Set Remote Node Data VLAN

```
curl --location --request PATCH
'https://api.cloud.taranawireless.com/v1/network/radios/<SERIAL-NO>' \
--header 'Content-Type: application/json' \
--header 'x-api-key: <API-KEY>' \
--data-raw '{
  "dataVlan": "42"
}'
```

Change Remote Node SLA Profile

```
curl --location --request PATCH
'https://api.cloud.taranawireless.com/v1/network/radios/<SERIAL-NO>' \
--header 'Content-Type: application/json' \
--header 'x-api-key: <API-KEY>' \
--data-raw '{
  "sla-profile": "sla-1000"
}'
```

Set Remote Node Primary Base Node

HTTP URL: <https://api.cloud.taranawireless.com/v1/network/radios/<SERIAL NUMBER>>

HTTP Method: POST

Request Body

```
{
  "primaryBnList": [
    {
      "rnSerialNumber": "string",
      "primaryBn": "string"
    }
  ]
}
```

```
]
}
```

Inventory Query (Device Hierarchy)

Search Available Devices

HTTP URL: https://<API_GATEWAY_DOMAIN_NAME>/v1/network/radios/search

HTTP Method: POST

Headers:

Content-Type: application/json

X-API-Key: API Key of the client

Request Body

This request requires no body.

```
{
  "offset": 0,
  "limit": 0,
  "filter": {
    "regionName": "string",
    "marketName": "string",
    "siteName": "string",
    "cellName": "string",
    "sectorName": "string",
    "deviceType": "string",
    "isConnected": true
  }
}
```

CURL:

```
curl --location --request POST
'https://api.cloud.taranawireless.com/v1/network/radios/search' \
--header 'Content-Type: application/json' \
--header 'x-api-key: <API-KEY>' \
--data-raw '{ "offset" : 0,
  "count" : 100,
  "filter" : {
    "regionName" : "string",
    "marketName" : "string",
    "siteName" : "string",
    "cellName" : "string",
    "sectorName" : "string",
    "deviceType" : "RN",      // or "BN", or both if it is left out
    "isConnected" : "true"   // only currently connected devices, or all
  }
}
```

Response Body

```
{
  "data": {
    "devices": [
      {
        "serialNumber": "string",
        "hierarchy": {
          "sector": {
            "id": 11,
            "name": "xxxxxxx"
          },
          "cell": {
            "id": 111,
            "name": "xxxxxxx"
          },
          "site": {
            "id": 1111,
            "name": "xxxxxxx"
          },
          "market": {
            "id": 11111,
            "name": "xxxxxxx"
          },
          "region": {
            "id": 222,
            "name": "xxxxxxx"
          },
          "operator": {
            "id": 1111,
            "name": "xxxxxxx"
          }
        },
        "retailerName": "XXXXXXXX",
        "retailerId": 22222
      }
    ],
    "offset": 0,
    "count": 1,
    "totalCount": 1
  },
  "error": {
    "code": 0,
    "message": "string",
    "status": "string"
  }
}
```

Get Remote Node Device Details

HTTP URL: <https://api.cloud.taranawireless.com/v1/network/radios/<SERIAL NUMBER>>

HTTP Method – GET

Request Body

This request requires no body.

Response Body

```
{
  "data": {
    "primaryBn": "S126T1203900026",
    "CustomAttribute1": {
      "enmvi": "ablaw"
    },
    "latitude": "33.6789",
    "hierarchy": {
      "sector": {
        "id": 3806,
        "name": "rf1-r10-sector40"
      },
      "cell": {
        "id": 2964,
        "name": "rf1-r10-sector40"
      },
      "site": {
        "id": 2926,
        "name": "rf1-r10-sector40"
      },
      "market": {
        "id": 632,
        "name": "AppsLab"
      },
      "region": {
        "id": 227,
        "name": "AppsLab"
      },
      "operator": {
        "id": 1,
        "name": "Tarana"
      }
    },
    "firstSeenTimeSeconds": 1643089919,
    "CustomAttribute2": "abc",
    "sla-profile": "sla-25",
    "dataVlan": "0",
    "hostname": "S005T1203700621test",
    "macAddress": "",
    "connectedBn": "S126T1203900026",
    "softwareVersion": "SYS.A3.R10.XXX.0.986.029.00",
    "longitude": "-17.0567"
  },
  "error": null
}
```

Get Base Node Device Details

HTTP URL: <https://api.cloud.taranawireless.com/v1/network/radios/<SERIAL NUMBER>>

HTTP Method – GET

Request Body

This request requires no body.

Response Body

```
{
  "data": {
    "macAddress": "",
    "CustomAttributes1": {
      "dusbf": "hqrod"
    },
    "hierarchy": {
      "sector": {
        "id": 3806,
        "name": "rf1-r10-sector40"
      },
      "cell": {
        "id": 2964,
        "name": "rf1-r10-sector40"
      },
      "site": {
        "id": 2926,
        "name": "rf1-r10-sector40"
      },
      "market": {
        "id": 632,
        "name": "AppsLab"
      },
      "region": {
        "id": 227,
        "name": "AppsLab"
      },
      "operator": {
        "id": 1,
        "name": "Tarana"
      }
    },
    "firstSeenTimeSeconds": 1636452608,
    "CustomAttributes2": "bcs",
    "softwareVersion": "SYS.A3.B10.XXX.0.986.031.00"
  },
  "error": null
}
```


Custom Attributes

Set Custom Attribute Column Name:

CURL:

```
curl --location --request PATCH 'https://api.cloud.taranawireless.com/v1/custom-attributes ' \
--header 'Content-Type: application/json' \
--header 'x-api-key: <API-KEY>' \
--data-raw '{
  "customAttributeName1" : "uniqueId",
  "customAttributeName2" : "additionalData"
}
```

Fetch Custom Attributes

HTTP URL: https://<API_GATEWAY_DOMAIN_NAME>/v1/network/operators/{id}/custom-attributes

HTTP Method: GET

Headers:

Content-Type: application/json

X-API-Key: API Key of the client

CURL:

```
curl -X GET \
https://<API_GATEWAY_DOMAIN_NAME>/v1/network/operators/{id}/custom-attributes \
-H 'Content-Type: application/json' \
-H 'X-API-Key: <API Key of the client>'
```

Response Codes

TCS responds with one of the following response codes:

Response Code 200 (OK)

```
{
  "data": {
    "customAttributeName1": "uniqueId",
    "customAttributeName2": "additionalData"
  },
  "error": null
}
```

Response Code 400 (Bad Request)

```
{
  "data": null,
  "error": {
    "code": 400,
    "message": "<MESSAGE>",
    "status": "Bad Request"
  }
}
```


Response Code 403 (Forbidden)

```
{
  "data": null,
  "error": {
    "code": 403,
    "message": "Access forbidden",
    "status": "Forbidden"
  }
}
```

Response Code 500 (Internal Server Error)

```
{
  "data": null,
  "error": {
    "code": 500,
    "message": "Internal server error",
    "status": "Internal Server Error"
  }
}
```

Set Custom Attributes

HTTP URL: https://<API_GATEWAY_DOMAIN_NAME>/v1/network/operators/custom-attributes

HTTP Method: POST

Headers:

Content-Type: application/json

X-API-Key: API Key of the client

Request Body

```
{
  "customAttributeName1": "uniqueId",
  "customAttributeName2": "additionalData"
}
```

Response Codes

TCS responds with one of the following response codes:

Response Code 200 (OK)

```
{
  "data": true
  "error": null
}
```

Response Code 400 (Bad Request)

```
{
  "data": null,
  "error": {
    "code": 400,
    "message": "<MESSAGE>",
    "status": "Bad Request"
  }
}
```

Response Code 403 (Forbidden)

```
{
  "data": null,
  "error": {
    "code": 403,
    "message": "Access forbidden",
    "status": "Forbidden"
  }
}
```

Response Code 500 (Internal Server Error)

```
{
  "data": null,
  "error": {
    "code": 500,
    "message": "Internal server error",
    "status": "Internal Server Error"
  }
}
```

```
}  
}
```

User Management APIs

Add User

HTTP URL: <https://api.cloud.taranawireless.com/v1/users>

HTTP Method: POST

Request Body

```
{  
  "firstName": "string",  
  "lastName": "string",  
  "email": "string",  
  "mobile": "string",  
  "address": "string",  
  "city": "string",  
  "state": "string",  
  "country": "string",  
  "pincode": "string",  
  "retailerName": "string",  
  "assignedRoles": [  
    {  
      "roleName": "string"  
    }  
  ]  
}
```

Request Parameter Definitions

Parameter Name	Datatype	Mandatory	Possible Input/Validation
firstName	String	Yes	Must be non-empty
lastName	String	No	
email	String	Yes	Must be non-empty Must be in valid email format (e.g. a@b.c)
mobile	String	Yes	Must be non-empty Supported formats are xxxxxxxxxxxx, xxx xxx xxxx, (xxx) xxx-xxxx, +xxx (xxx) xxx-xxxx, xxx xxx xxx, +xxx xxx xxx xxx, xxx xx xx xx, +xxx xxx xx xx xx
address	String	No	
city	String	No	
state	String	No	
country	String	No	
pincode	String	No	
retailerName	String	Yes	Must be non-empty
assignedRoles	Array	Yes	Must be non-empty
roleName	String	Yes	Must be non-empty

Possible values [“OP Admin”, “NOC Operator”, “NOC L1 User”, “Retailer Admin”, “Retailer Operator”, “Retailer Viewer”]

Response Codes

TCS responds with one of the following response codes:

Response Code 200 (OK)

```
{
  "data": {
    "firstName": "string",
    "lastName": "string",
    "email": "string",
    "mobile": "string",
    "address": "string",
    "city": "string",
    "state": "string",
    "country": "string",
    "pincode": "string",
    "retailerId": "string",
    "operatorId": "string",
    "userId": "string",
    "assignedRoles": [
      {
        "roleId": 0,
        "roleName": "string",
        "roleDescription": "string"
      }
    ],
    "loginTimeSeconds": 0,
    "lastLoginTimeMillis": 0,
    "creationTimeMillis": 0,
    "eulaAccept": true,
    "eulaAcceptTimeMillis": 0
  },
  "error": null
}
```

Response Code 400 (Bad Request)

```
{
  "data": null,
  "error": {
    "code": 400,
    "message": "<MESSAGE>",
    "status": "Invalid user inputs"
  }
}
```

Response Code 403 (Forbidden)

```
{
  "data": null,
  "error": {
    "code": 403,
    "message": "Internal server error",

```

```
    "status": "Access forbidden"  
  }  
}
```

Response Code 404 (Not Found)

```
{
  "data": null,
  "error": {
    "code": 404,
    "message": "<MESSAGE>",
    "status": "Not found"
  }
}
```

Response Code 500 (Internal Server Error)

```
{
  "data": null,
  "error": {
    "code": 500,
    "message": "Internal server error",
    "status": "Internal Server Error"
  }
}
```


Update User

HTTP URL: <https://api.cloud.taranawireless.com/v1/users/{userEmail}>

HTTP Method: PUT

Request Body

```
{
  "userId": "string",
  "firstName": "string",
  "lastName": "string",
  "email": "string",
  "mobile": "string",
  "address": "string",
  "city": "string",
  "state": "string",
  "country": "string",
  "pincode": "string",
  "retailerId": "string",
  "retailerName": "string",
  "operatorId": "string",
  "assignedRoles": [
    {
      "roleId": "string",
      "roleName": "string",
      "roleDescription": "string"
    }
  ]
}
```

Request Parameter Definitions

Parameter Name	Datatype	Mandatory	Possible Input/Validation
userEmail	String	Yes	Must be non-empty
firstName	String	Yes	Must be non-empty
lastName	String	No	
email	String	Yes	Must be non-empty
mobile	String	Yes	Must be non-empty Supported formats are xxxxxxxxxxxx, xxx xxx xxxx, (xxx) xxx-xxxx, +xxx (xxx) xxx-xxxx, xxx xxx xxx, +xxx xxx xxx xxx, xxx xx xx xx, +xxx xxx xx xx xx
address	String	No	
city	String	No	
state	String	No	
country	String	No	
pincode	String	No	
retailerName	String	Yes	Must be non-empty
assignedRoles	Array	Yes	Must be non-empty
roleName	String	Yes	Must be non-empty Possible values ["OP Admin", "NOC Operator", "NOC L1 User", "Retailer Admin", "Retailer Operator", "Retailer Viewer"]

Response Codes

TCS responds with one of the following response codes:

Response Code 200 (OK)

```
{
  "data": {
    "userId": "string",
    "firstName": "string",
    "lastName": "string",
    "email": "string",
    "mobile": "string",
    "address": "string",
    "city": "string",
    "state": "string",
    "country": "string",
    "pincode": "string",
    "retailerId": "string",
    "operatorId": "string",
    "assignedRoles": [
      {
        "roleId": 0,
        "roleName": "string",
        "roleDescription": "string"
      }
    ],
    "loginTimeSeconds": 0,
    "lastLoginTimeMillis": 0,
    "creationTimeMillis": 0,
    "eulaAccept": true,
    "eulaAcceptTimeMillis": 0
  }
  "error": null
}
```

Response Code 400 (Bad Request)

```
{
  "data": null,
  "error": {
    "code": 400,
    "message": "<MESSAGE>",
    "status": "Invalid user inputs"
  }
}
```

Response Code 403 (Forbidden)

```
{
  "data": null,
  "error": {
    "code": 403,
    "message": "<MESSAGE>",
    "status": "Access forbidden"
  }
}
```

Response Code 404 (Not Found)

```
{
  "data": null,
  "error": {
    "code": 404,
    "message": "<MESSAGE>",
    "status": "Not found"
  }
}
```

Response Code 405 (Method Not Allowed)

```
{
  "data": null,
  "error": {
    "code": 405,
    "message": "HTTP 405 Method Not Allowed",
    "status": "Method Not Allowed"
  }
}
```

Response Code 500 (Internal Server Error)

```
{
  "data": null,
  "error": {
    "code": 500,
    "message": "Internal server error",
    "status": "Internal Server Error"
  }
}
```

Get User Details

HTTP URL: <https://api.cloud.taranawireless.com/v1/users/{userEmail}>

HTTP Method: GET

Request Body

This request requires no body.

Request Parameter Definitions

Parameter Name	Datatype	Mandatory	Possible Input/Validation
userEmail	String	Yes	Must be non-empty

Response Codes

TCS responds with one of the following response codes:

Response Code 200 (OK)

```
{
  "data": {
    "userId": "string",
    "firstName": "string",
    "lastName": "string",
    "email": "string",
    "mobile": "string",
    "address": "string",
    "city": "string",
    "state": "string",
    "country": "string",
    "pincode": "string",
    "retailerId": "string",
    "operatorId": "string",
    "assignedRoles": [
      {
        "roleId": "string",
        "roleName": "string",
        "roleDescription": "string"
      }
    ],
    "loginTimeSeconds": 0,
    "lastLoginTimeMillis": 0,
    "creationTimeMillis": 0,
    "eulaAccept": true,
    "eulaAcceptTimeMillis": 0
  },
  "error": null
}
```

Response Code 400 (Bad Request)

```
{
  "data": null,
  "error": {
    "code": 400,
    "message": "<MESSAGE>",
    "status": "Bad Request"
  }
}
```

Response Code 403 (Forbidden)

```
{
  "data": null,
  "error": {
    "code": 403,
    "message": "<MESSAGE>",
    "status": "Access forbidden"
  }
}
```

Response Code 404 (Not Found)

```
{
  "data": null,
  "error": {
    "code": 404,
    "message": "<MESSAGE>",
    "status": "Not found"
  }
}
```

Response Code 500 (Internal Server Error)

```
{
  "data": null,
  "error": {
    "code": 500,
    "message": "Internal server error",
    "status": "Internal Server Error"
  }
}
```

Get All Users' Details

HTTP URL: <https://api.cloud.taranawireless.com/v1/users?offset=&count=&sortBy=&order=>

HTTP Method: GET

Request Body

This request requires no body.

Request Parameter Definitions

Parameter Name	Datatype	Mandatory	Possible Input/Validation
offset	Integer	No	Default is 0
count	Integer	No	Default is 10
sortBy	String	No	Default is firstName
order	String	No	Possible values: ["asc", "desc"]

Response Codes

TCS responds with one of the following response codes:

Response Code 200 (OK)

```
{
  "data": {
    "items": [
      {
        "userId": "string",
        "firstName": "string",
        "lastName": "string",
        "email": "string",
        "mobile": "string",
        "address": "string",
        "city": "string",
        "state": "string",
        "country": "string",
        "pincode": "string",
        "retailerId": "string",
        "operatorId": "string",
        "assignedRoles": [
          {
            "roleId": "string",
            "roleName": "string",
            "roleDescription": "string"
          }
        ],
        "loginTimeSeconds": 0,
        "lastLoginTimeMillis": 0,
        "creationTimeMillis": 0,
        "eulaAccept": true,
        "eulaAcceptTimeMillis": 0
      }
    ]
  }
}
```

```
    ],  
    "count": 0,  
    "offset": 0,  
    "totalCount": 0  
  },  
  "error": null  
}
```

Response Code 400 (Bad Request)

```
{  
  "data": null,  
  "error": {  
    "code": 400,  
    "message": "<MESSAGE>",  
    "status": "Bad Request"  
  }  
}
```

Response Code 403 (Forbidden)

```
{  
  "data": null,  
  "error": {  
    "code": 403,  
    "message": "<MESSAGE>",  
    "status": "Access forbidden"  
  }  
}
```

Response Code 500 (Internal Server Error)

```
{  
  "data": null,  
  "error": {  
    "code": 500,  
    "message": "Internal server error",  
    "status": "Internal Server Error"  
  }  
}
```

Delete user

HTTP URL: <https://api.cloud.taranawireless.com/v1/users/{userEmail}>

HTTP Method: DELETE

Request Body

This request requires no body.

Request Parameter Definitions

Parameter Name	Datatype	Mandatory	Possible Input/Validation
userEmail	String	Yes	Must be non-empty

Response Codes

TCS responds with one of the following response codes:

Response Code 200 (OK)

```
{
  "data": "{
    "userId": "string",
    "firstName": "string",
    "lastName": "string",
    "email": "string",
    "mobile": "string",
    "address": "string",
    "city": "string",
    "state": "string",
    "country": "string",
    "pincode": "string",
    "retailerId": "string",
    "operatorId": "string",
    "assignedRoles": [
      {
        "roleId": 0,
        "roleName": "string",
        "roleDescription": "string"
      }
    ],
    "loginTimeSeconds": 0,
    "lastLoginTimeMillis": 0,
    "creationTimeMillis": 0,
    "eulaAccept": true,
    "eulaAcceptTimeMillis": 0
  },
  "error": null
}
```


Response Code 400 (Bad Request)

```
{
  "data": null,
  "error": {
    "code": 400,
    "message": "<MESSAGE>",
    "status": "Bad Request"
  }
}
```

Response Code 403 (Forbidden)

```
{
  "data": null,
  "error": {
    "code": 403,
    "message": "<MESSAGE>",
    "status": "Access forbidden"
  }
}
```

Response Code 404 (Not Found)

```
{
  "data": null,
  "error": {
    "code": 404,
    "message": "<MESSAGE>",
    "status": "Not found"
  }
}
```

Response Code 405 (Method Not Allowed)

```
{
  "data": null,
  "error": {
    "code": 405,
    "message": "HTTP 405 Method Not Allowed",
    "status": "Method Not Allowed"
  }
}
```

Response Code 500 (Internal Server Error)

```
{
  "data": null,
  "error": {
    "code": 500,
    "message": "Internal server error",
    "status": "Internal Server Error"
  }
}
```

Resend User Sign-up Details

HTTP URL: <https://api.cloud.taranawireless.com/v1/users/<userEmail>/resend-signup-details>

HTTP Method: POST

Request Body

This request requires no body.

Request Parameter Definitions

Parameter Name	Datatype	Mandatory	Possible Input/Validation
userEmail	String	Yes	Must be non-empty

Response Codes

TCS responds with one of the following response codes:

Response Code 200 (OK)

```
{
  "data": "string",
  "error": null
}
```

Response Code 400 (Bad Request)

```
{
  "data": null,
  "error": {
    "code": 400,
    "message": "<MESSAGE>",
    "status": "Invalid user inputs"
  }
}
```

Response Code 403 (Forbidden)

```
{
  "data": null,
  "error": {
    "code": 403,
    "message": "<MESSAGE>",
    "status": "Access forbidden"
  }
}
```

Response Code 404 (Not Found)

```
{
  "data": null,
  "error": {
    "code": 404,
    "message": "<MESSAGE>",
    "status": "Not found"
  }
}
```

Response Code 500 (Internal Server Error)

```
{
  "data": null,
  "error": {
    "code": 500,
    "message": "Internal server error",
    "status": "Internal Server Error"
  }
}
```

About Tarana

Tarana Wireless, Inc. is the performance leader in fixed wireless access network solutions, powered by a number of industry-first and well-proven breakthroughs in perfect, multidimensional optimization of radio signals. Its Gigabit 1 fixed access system overcomes previously insurmountable network economics challenges for service providers in both mainstream broadband and underserved markets, using free unlicensed spectrum. The company is headquartered in Milpitas, California, with additional research and development in Pune, India. For more information, visit taranawireless.com.