

# Using API Suite: Microwave Path LOS

## SiteSync Pro

The screenshot shows the SiteSync Pro interface. At the top, there are two tower location forms. The first form has coordinates: Lat: 45.5248539846571068, Lon: -122.6720067858696. The second form has coordinates: Lat: 45.61139569648645, Lon: -122.55180358886719. Below the forms is a map showing a path between the two towers. A graph at the bottom shows the path profile with terrain elevation and Fresnel clearance.

How we use it

## Microwave (eMwave) Path Profile request for LOS

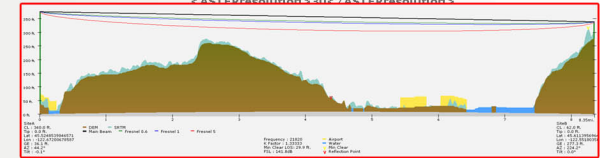
[http://api.wirelessapplications.com/1.0/eMwave/init/?api\\_key={Your API key here}&responseFormat=XML&lat1=45.5248539846571068&lon1=-122.6720067858696&lat2=45.61139569648645&lon2=-122.55180358886719&height1=340&height2=62&heightUnits=F&frequencyMHz=21820&samplePoints=4000&sampleResolution=10](http://api.wirelessapplications.com/1.0/eMwave/init/?api_key={Your API key here}&responseFormat=XML&lat1=45.5248539846571068&lon1=-122.6720067858696&lat2=45.61139569648645&lon2=-122.55180358886719&height1=340&height2=62&heightUnits=F&frequencyMHz=21820&samplePoints=4000&sampleResolution=10)

[http://api.wirelessapplications.com/1.0/eCoverage/getOutput/?api\\_key={Your API key here}&responseFormat=XML&propagationIdentifier=4735543&output=image&kmlType=&imageHeight=450&imageWidth=1600&imageMapRes=4&imageMapZoom=](http://api.wirelessapplications.com/1.0/eCoverage/getOutput/?api_key={Your API key here}&responseFormat=XML&propagationIdentifier=4735543&output=image&kmlType=&imageHeight=450&imageWidth=1600&imageMapRes=4&imageMapZoom=)

## How you call it

### Response from API

```
<WacApi>
<ErrorCode>0</ErrorCode>
<DateGenerated>09/03/2010 11:09:31</DateGenerated>
<MicrowaveIdentifier>4735549</MicrowaveIdentifier>
<DEMResolution>10</DEMResolution>
<SRTMResolution>30</SRTMResolution>
<ASTERResolution>30</ASTERResolution>
```



```
<frequencyMHz>21820</frequencyMHz>
<samplePoints>4000</samplePoints>
<sampleResolution>10</sampleResolution>
<ResponseFormat>XML</ResponseFormat>
<dataLayersPipe/>
</Parameters>
</WacApi>
```

```
<WacApi>
<ErrorCode>0</ErrorCode>
<DateGenerated>09/03/2010 11:09:47</DateGenerated>--<OutputUrl>
http://api.wirelessapplications.com/1.0/temp/RFProp_rf_4735543_14379.gif
</OutputUrl>--<Parameters>
<PropagationIdentifier>4735543</PropagationIdentifier>
<ApiKey>{Your API key here}</ApiKey>
<Output>image</Output>
<ImageType>PNG</ImageType>
<ImageHeight>450</ImageHeight>
<ImageWidth>1600</ImageWidth>
<ImageMapRes>4</ImageMapRes>
<ImageMapZoom/>
<KmlType>RASTER</KmlType>
<ResponseFormat>XML</ResponseFormat>
</Parameters>
</WacApi>
```

## Croft Enterprises

The screenshot shows the Croft Enterprises website. The main content is a 3D terrain model with a path profile overlaid. The path profile shows the terrain elevation and the Fresnel clearance. The website has a navigation menu with links for HOME, BLOG, VIEW LOCATIONS, ABOUT CROFT, CONTACT, and SKINS. There is also a legend and a control panel on the right side.

How you can use it

[api.wirelessapplications.com](http://api.wirelessapplications.com)

Dirt Simple Telecom Tools

In SiteSync Pro, Wireless Application's online software, users evaluate Line of Site (LOS) between two potential tower points, generating a graphical 2-D path profile of the terrain. The results include data from 30 meter DEM and SRTM terrain. Users evaluate Fresnel clearances relative to these terrain models. This powerful analysis tool may be integrated into your software via API calls.