EGNSS4CAP WEB SERVICE SOURCE CODE OVERVIEW

Below is a technical overview of the implemented web services for the EGNSS4CAP application and their features.

[**https://installation-server.tld/ws/comm\_login.php**](https://installation-server.tld/ws/comm_login.php)

* check user by login and pswd
* input
  + HTTPS, POST
  + parameters
    - login – string(255)
    - pswd - string(255)
* output
  + JSON
    - status – string - ok/error
    - error\_msg – string – error message if an error occurs
    - user – number – user ID for login, if exists

**https://installation-server.tld/ws/comm\_shapes.php**

* sends geometry shapes for rectangle
* input
  + HTTPS, POST
  + parameters
    - max\_lat – float
    - min\_lat – float
    - max\_lng – float
    - min\_lng – float
* output
  + JSON
    - status – string - ok/error
    - error\_msg – string – error message if an error occurs
    - shapes – array
      * identificator – string – shape identificator
      * wgs\_geometry – json – geometry of shape

**https://installation-server.tld/ws/comm\_task\_photos.php**

* sends photos for task or user
* input
  + HTTPS, POST
  + parameters
    - task\_id – number – task identificator
    - user\_id – number – user identificator
* output
  + JSON
    - status – string - ok/error
    - error\_msg – string – error message if an error occurs
    - photos – array
      * note – string – user note
      * lat – float – latitude of photo
      * lng – float – longitute of photo
      * photo\_heading – number – photo azimuth
      * created – datetime – date and time of photo creation
      * photo – string – base64 encoded photo
      * digest – string – hash of photo

**https://installation-server.tld/ws/comm\_tasks.php**

* sends tasks for user
* input
  + HTTPS, POST
  + parameters
    - user\_id – number – user identificator
* output
  + JSON
    - status – string - ok/error
    - error\_msg – string – error message if an error occurs
    - tasks – array
      * id – number – task identificator
      * status – string – task status
      * name – string – task name
      * text – string – description of task
      * text\_returned – string – description why is returned
      * date\_created – datetime – date of create task
      * task\_due\_date – datetime – task due date
      * note – string – task note
      * number\_of\_photos – number – number of photos for task
      * flag\_valid – string – task is accepted
      * flag\_invalid – string – task is declined
      * photos\_ids – array of numbers – IDs of task photos

**https://installation-server.tld/ws/comm\_update.php**

* receive task data from phone
* input
  + HTTPS, POST
  + parameters
    - task\_id – number – task identificator
    - user\_id – number – user identificator
    - status – string – task statuses
    - note – string – task note
    - photos – array
      * note – string – photo note
      * lat – float – photo latitude
      * lng – float – photo longitude
      * altitude
      * bearing
      * magnetic\_azimuth
      * photo\_heading
      * pitch
      * roll
      * photo\_angle
      * orientation
      * horizontalViewAngle
      * verticalViewAngle
      * accuracy
      * deviceManufacture
      * deviceModel
      * devicePlatform
      * deviceVersion
      * satsInfo
      * extraSatCount
      * NMEAMessage
      * networkInfo
      * created – datetime – date of photo creation
      * digest – string – photo hash
      * efkLatGpsL1
      * efkLngGpsL1
      * efkAltGpsL1
      * efkTimeGpsL1
      * efkLatGpsL5
      * efkLngGpsL5
      * efkAltGpsL5
      * efkTimeGpsL5
      * efkLatGpsIf
      * efkLngGpsIf
      * efkAltGpsIf
      * efkTimeGpsIf
      * efkLatGalE1
      * efkLngGalE1
      * efkAltGalE1
      * efkTimeGalE1
      * efkLatGalE5
      * efkLng GalE5
      * efkAlt GalE5
      * efkTimeGalE5
      * efkLatGalIf
      * efkLngGalIf
      * efkAltGalIf
      * efkTimeGalIf
      * photo – string – base64 encoded photo
* output
  + JSON
    - status – string - ok/error
    - error\_msg – string – error message if an error occurs

**https://installation-server.tld/ws/comm\_get\_paths.php**

* sends paths for user
* input
  + HTTPS, POST
  + parameters
    - user\_id – number – user identificator
* output
  + JSON
    - status – string - ok/error
    - error\_msg – string – error message if an error occurs
    - paths – array
      * id – number – identificator
      * name - string
      * start – datetime – start of tracking datetime
      * end – datetime – end of tracking datetime
      * area – float – path area in m2
      * device\_manufacture - string
      * device\_model - string
      * device\_platform - string
      * device\_version - string
      * points – array
        + id – number – identificator
        + lat - float
        + lng - float
        + altitude - float
        + accuracy - float
        + created - datetime

**https://installation-server.tld/ws/comm\_get\_photo.php**

* sends photo by ID
* input
  + HTTPS, POST
  + parameters
    - photo\_id – number – photo identificator
* output
  + JSON
    - status – string - ok/error
    - error\_msg – string – error message if an error occurs
    - photo – object
      * note – string – photo note
      * lat – float – photo lattitude
      * lng – float – photo longitude
      * photo\_heading – number – heading in degrees
      * created – datetime
      * photo – string – base64 encoded photo
      * digest – string – photo hash

**https://installation-server.tld/ws/comm\_path.php**

* receive path from phone
* input
  + HTTPS, POST
  + parameters
    - user\_id – number – user identificator
      * name - string
      * start – datetime – start of tracking datetime
      * end – datetime – end of tracking datetime
      * area – float – path area in m2
      * device\_manufacture - string
      * device\_model - string
      * device\_platform - string
      * device\_version - string
      * points – array
        + lat - float
        + lng - float
        + altitude - float
        + accuracy - float
        + created - datetime
* output
  + JSON
    - status – string - ok/error
    - error\_msg – string – error message if an error occurs
    - path\_id – number – ID of received path

**https://installation-server.tld/ws/comm\_photo.php**

* receive photo data from phone
* input
  + HTTPS, POST
  + parameters
    - task\_id – number – task identificator
    - user\_id – number – user identificator
    - photos – array
      * note – string – photo note
      * lat – float – photo latitude
      * lng – float – photo longitude
      * centroidLat
      * centroidLng
      * altitude
      * bearing
      * magnetic\_azimuth
      * photo\_heading
      * pitch
      * roll
      * photo\_angle
      * orientation
      * horizontalViewAngle
      * verticalViewAngle
      * accuracy
      * deviceManufacture
      * deviceModel
      * devicePlatform
      * deviceVersion
      * satsInfo
      * extraSatCount
      * NMEAMessage
      * networkInfo
      * created – datetime – date of photo creation
      * digest – string – photo hash
      * efkLatGpsL1
      * efkLngGpsL1
      * efkAltGpsL1
      * efkTimeGpsL1
      * efkLatGpsL5
      * efkLngGpsL5
      * efkAltGpsL5
      * efkTimeGpsL5
      * efkLatGpsIf
      * efkLngGpsIf
      * efkAltGpsIf
      * efkTimeGpsIf
      * efkLatGalE1
      * efkLngGalE1
      * efkAltGalE1
      * efkTimeGalE1
      * efkLatGalE5
      * efkLng GalE5
      * efkAlt GalE5
      * efkTimeGalE5
      * efkLatGalIf
      * efkLngGalIf
      * efkAltGalIf
      * efkTimeGalIf
      * photo – string – base64 encoded photo
* output
  + JSON
    - status – string - ok/error
    - error\_msg – string – error message if an error occurs
    - photo\_id – number – ID of received photo

**https://installation-server.tld/ws/comm\_status.php**

* receive task data from phone
* input
  + HTTPS, POST
  + parameters
    - task\_id – number – task identificator
    - status – string – task statuses
    - note – string – task note
* output
  + JSON
    - status – string - ok/error
    - error\_msg – string – error message if an error occurs

**https://installation-server.tld/ws/comm\_unassigned.php**

* sends IDs of unassigned photos for user
* input
  + HTTPS, POST
  + parameters
    - user\_id – number – user identificator
* output
  + JSON
    - status – string - ok/error
    - error\_msg – string – error message if an error occurs
    - photos\_ids – array of numbers – IDs of unassigned photos