

# External Links - Output



URL: <http://services.u-p-n.co.uk/ExternalLinks>

## Functions:

- **GetNetworkDeliveries(Depot, JobDate, Username, Password) returns NetworkConsignment()**  
*To be used for freight being delivered on behalf of the network. If successful an array of type NetworkConsignment is returned.*  
Parameters:
  - Depot - UPN depot number
  - JobDate - The date the jobs came into the Hub, typically the day before this request
  - Username - String - unique to you to authorise access to the service
  - Password - String - unique to you to authorise access to the service
- **GetNetworkCollection(Depot, Barcode, Username, Password) returns NetworkCollection**  
*To be used extract collection information. If successful single job of type NetworkCollection is returned.*  
Parameters:
  - Depot - Your UPN depot number
  - Barcode - The UPN barcode reference for the collection
  - Username - String - unique to you to authorise access to the service
  - Password - String - unique to you to authorise access to the service
- **GetNetworkInput(Depot, JobDate, Username, Password) returns NetworkConsignment()**  
*To be used to download job information for consignments being sent through the network and delivered by other members. If successful an array of type NetworkConsignment is returned.*  
Parameters:
  - Depot - UPN depot number
  - JobDate - The date the jobs came into the Hub, typically the day before this request
  - Username - String - unique to you to authorise access to the service
  - Password - String - unique to you to authorise access to the service
- **GetPODAndTrackingByDepot(Depot, StartTime, Username, Password) returns ConsignmentTracking()**  
*To be used to obtain all tracking and POD's for freight sent via the network. The start time is when the service was last requested, so that all pods etc can be returned between that time and the current time of the request. An array of type ConsignmentTracking will be returned.*  
Parameters:
  - Depot - UPN depot number
  - StartTime - The date and time the request was last made
  - Username - String - unique to you to authorise access to the service
  - Password - String - unique to you to authorise access to the service
- **GetPODAndTrackingByCustomer(Depot, Customer, StartTime, Username, Password) returns ConsignmentTracking()**  
*To be used to obtain all tracking and POD's for freight sent via the network for a specific customer. The start time is when the service was last requested, so that all pods etc can be returned between that time and the current time of the request. An array of type ConsignmentTracking will be returned.*  
Parameters:
  - Depot - UPN depot number
  - Customer - The depots's unique id for a particular customer
  - StartTime - The date and time the request was last made

- Username - String - unique to you to authorise access to the service
- Password - String - unique to you to authorise access to the service

- **GetDeliveryRevenue(Barcodes(), DeliveryDepot, Username, Password) returns NetworkRevenue()**  
*To be used to obtain the delivery revenue for all barcodes passed into the service. This can be called following a call to get the network deliveries, or at a later date to cater for the online COR process. An array of type NetworkRevenue will be returned.*

Parameters:

- Barcodes() - A list of UPN consignment barcodes
- DeliveryDepot - The depot's own number
- Username - String - unique to you to authorise access to the service
- Password - String - unique to you to authorise access to the service

- **GetCollectionRevenue(Barcodes(), CollectionDepot, Username, Password) returns NetworkRevenue()**  
*To be used to obtain the collection revenue for all barcodes passed into the service. This should be called a day or two after the collection has been completed. This will allow time for any discrepancies or changes of revenue to be effected. An array of type NetworkRevenue will be returned.*

Parameters:

- Barcodes() - A list of UPN consignment barcodes
- Depot - The depot's own number
- Username - String - unique to you to authorise access to the service
- Password - String - unique to you to authorise access to the service

- **GetNetworkInputCost(Barcodes(), Depot, Username, Password) returns NetworkRevenue()**  
*To be used to obtain the input cost for all barcodes passed into the service. This can be called following a request to get the network input, or at a later date to cater for the online COR process. An array of type NetworkRevenue will be returned.*

Parameters:

- Barcodes() - A list of UPN consignment barcodes
- Depot - The depot's own number
- Username - String - unique to you to authorise access to the service
- Password - String - unique to you to authorise access to the service

- **GetCurrentHeldovers(Depot, Username, Password) As List(Of HeldoverPallet)**  
*To be used to obtain a list of pallets currently held over at the Hub. An array of type HeldoverPallet will be returned.*

Parameters:

- Depot - The depot's own number
- Username - String - unique to you to authorise access to the service
- Password - String - unique to you to authorise access to the service

- **GetNetworkDeliveriesByManifestID (Depot, ManifestID, Username, Password) As List(Of NetworkConsignment)**  
*To be used to obtain a list of consignments loaded onto a particular trunk vehicle. A list of available trunk vehicles and their ID's can be obtained by using the ListManifestIDs function detailed below. An array of type NetworkConsignment will be returned.*

Parameters:

- Depot - The depot's own number
- ManifestID - The manifestID for the required trunk vehicle
- Username - String - unique to you to authorise access to the service
- Password - String - unique to you to authorise access to the service

- **GetNetworkDeliveryByConNo (Depot, ConNo(), Username, Password) As List(Of NetworkConsignment)**

*To be used to obtain a list of consignments given an array of consignment numbers. An array of type NetworkConsignment will be returned.*

Parameters:

- Depot - The depot's own number
- ConNo() - An array of consignment numbers to look for
- Username - String - unique to you to authorise access to the service
- Password - String - unique to you to authorise access to the service

- **ListManifestIDs (Depot, ManifestDate, Username, Password) As List(Of OutboundVehicle)**

*To be used to obtain a list of manifests/vehicles for a given date. An array of type OutboundVehicle will be returned.*

Parameters:

- Depot - The depot's own number
- ManifestDate - The date on the manifest. If the service request is being made between 00:00 and 07:00 you will need to use the previous days date, otherwise the current date will work. This is a Date only field, no time is required. If you have to pass in a time, please set it to 00:00.
- Username - String - unique to you to authorise access to the service
- Password - String - unique to you to authorise access to the service

- **GetPostcodeRestrictions (Postcode, Username, Password) returns svcPostcode()**

*To be used to obtain the list of UK postcode district, complete with service and pallet type restrictions. An array of type svcPostcode will be returned.*

Parameters:

- Postcode - The postcode you want the details for i.e. AB10. You can also use the string "All Postcodes" to download all 3000+ postcode districts in one go.
- Username - String - unique to you to authorise access to the service
- Password - String - unique to you to authorise access to the service

- **CON\_GetRunAndDelTime(Barcodes(), ConNumbers(), Depot, Username, Password) As List(of String)**

*To be used to use to request the runsheet id, drop number and expected delivery date and time for a given array of consignments. A list of string arrays is returned. Each item in the list represents a consignment record. Within each list item is an array of strings which holds the information. The array fields are (in order): UPN barcode, consignment number, Runsheet number, drop number, expected delivery date and time.*

Parameters:

- Barcodes() – String – An array of the UPN barcodes, if known.
- ConNumbers() – String – An array of the consignment numbers. Only use this parameter if the UPN barcodes aren't known.
- Depot – Integer – Your depot number.
- Username -String - unique to you to authorise access to the service.
- Password - String - unique to you to authorise access to the service.

- **Collection\_GetStatus(CollectionBarcodes(), Depot, Username, Password) As Dictionary(of String, String)**

*To be used to use to request the status of a collection(s). The output contains the barcode and the associated status as a string. Possible status strings are:*

1. *Customer entered*
2. *Sending Depot Approved*
3. *Accepted*
4. *Goods Collected*
5. *Goods Unavailable*

6. *Rejected*
7. *Cancellation Requested*
8. *Cancelled*
9. *Cancellation Request Rejected*

Parameters:

- CollectionBarcodes() – String – An array of the UPN barcodes.
- Depot – Integer – Your depot number.
- Username -String - unique to you to authorise access to the service.
- Password - String - unique to you to authorise access to the service.

Structures:

- **NetworkConsignment**

*The structure contains all the necessary information to successfully transfer a consignment across from the UPN system.*

- **ConNo** - String(15) - Unique consignment number.
- **Depot** - Integer - The number of the depot that either sent/delivered the consignment.
- **CustRef** - String(30) - This is the customer reference number for the consignment.
- **DespatchDate** - DateTime - This is the date the consignment was sent into the Hub.
- **DeliveryCoName** - String(100) - Company name of the delivery point.
- **DeliveryAdd1** - String(100) - First line of the delivery address.
- **DeliveryAdd2** - String(100) - Second line of the delivery address.
- **DeliveryTown** - String(100) - The delivery point town.
- **DeliveryCounty** - String(100) - The delivery point county.
- **DeliveryPostcode** - String(8) - The delivery point postcode.
- **DeliveryPhone** - String(15) - The delivery point contact number.
- **TotalWeight** - Integer - This is the total weight of all the pallets in kilograms.
- **SpecialInstructions** - String(255) - Any additional notes.
- **CustomerID** - Integer - Unique number for the inputting customer e.g. 10016.
- **DeliveryContactName** - String(100) - Contact name at the delivery point.
- **DeliveryCountry** - String(100) - The delivery point country.
- **CustPaperwork** - Integer - Indicates the number of pages of paperwork that was sent with the consignment. A value of '0' means that no paperwork was sent.
- **MainService** - String(1) - This is the main delivery service and can be either:
  - **P** - Priority service, next day
  - **S** - Standard service, within two working days (up to five for Scotland)
  - **I** - International service
  - **R** - Pallet Return
- **PremiumService** - String - This is the additional service which is optional for each consignment.
  - **[Blank String]** - If no additional service was selected
  - **B10** - Before 10am
  - **AM** - Before 12pm deliveries
  - **Timed** - For delivery at a specific time
  - **Sat** - For delivery on a Saturday
- **TailLift** - String(5) - If 'TLift' then a tail lift is required. [Blank] if not required.
- **ExtraService** - String(3) - Extra services which are in addition to a main and premium service.
  - **[Blank]** - If no extra service was selected
  - **BI** - Book In, the delivery point to be contacted to arrange delivery
  - **Bkd** - Booked, for delivery on a specific day
  - **OOH** - Out of Hours, for delivery before 9am or after 16:30.
- **DeliveryDateTime** - DateTime - This is the date and time the delivery should be completed by.
- **ConBarcode** - String - The UPN assigned barcode for the consignment.

- **Pallets** - NetworkPallet() - An array (or list) of the custom type NetworkPallet. More details below.

- **NetworkCollection**

*The structure contains all the necessary information to successfully transfer a collection request from the UPN system.*

- **ConNo** - String(15) - Unique consignment number.
- **ReqDepot** - Integer - The number of the depot that requested the collection.
- **DelDepot** - Integer - The number of the depot due to deliver the collection.
- **CustRef** - String(30) - This is the customer reference number for the consignment.
- **DeliveryCoName** - String(100) - Company name of the delivery point.
- **DeliveryAdd1** - String(100) - First line of the delivery address.
- **DeliveryAdd2** - String(100) - Second line of the delivery address.
- **DeliveryTown** - String(100) - The delivery point town.
- **DeliveryCounty** - String(100) - The delivery point county.
- **DeliveryPostcode** - String(8) - The delivery point postcode.
- **DeliveryPhone** - String(15) - The delivery point contact number.
- **TotalWeight** - Integer - This is the total weight of all the pallets in kilograms.
- **DelInstructions** - String(255) - Any additional notes for the delivery element of the job.
- **Consignor** - String - The requesting customer name.
- **DeliveryContactName** - String(100) - Contact name at the delivery point.
- **DeliveryCountry** - String(100) - The delivery point country.
- **DelMainService** - String(1) - This is the main delivery service and can be either:
  - **P** - Priority service, next day
  - **S** - Standard service, within two working days (up to five for Scotland)
  - **I** - International service
  - **R** - Pallet Return
- **DelPremiumService** - String - This is the additional service which is optional for each consignment.
  - **[Blank String]** - If no additional service was selected
  - **B10** - Before 10am
  - **AM** - Before 12pm deliveries
  - **Timed** - For delivery at a specific time
  - **Sat** - For delivery on a Saturday
- **DelTailLift** - String(1) - If 'TLift' then a tail lift is required. [Blank] if not required.
- **DelExtraService** - String(2) - Extra services which are in addition to a main and premium service.
  - **[Blank]** - If no extra service was selected
  - **BI** - Book In, the delivery point to be contacted to arrange delivery
  - **Bkd** - Booked, for delivery on a specific day
  - **OOH** - Out of Hours, for delivery before 9am or after 16:30.
- **DeliveryDateTime** - DateTime - This is the date and time the delivery should be completed by.
- **CollectionCoName** - String(100) - Company name of the collection point.
- **CollectionAdd1** - String(100) - First line of the collection address.
- **CollectionAdd2** - String(100) - Second line of the collection address.
- **CollectionTown** - String(100) - The collection point town.
- **CollectionCounty** - String(100) - The collection point county.
- **CollectionPostcode** - String(8) - The collection point postcode.
- **CollectionPhone** - String(15) - The collection point contact number.
- **ColInstructions** - String(255) - Any additional notes for the collection element of the job.
- **CollectionContactName** - String(100) - Contact name at the collection point.
- **CollectionCountry** - String(100) - The collection point country.
- **ColMainService** - String(1) - This is the main collection service and can be either:

- **P** - Priority service, next day
    - **S** - Standard service, within two working days (up to five for Scotland)
    - **I** - International service
    - **R** - Pallet Return
  - **ColPremiumService** - String - This is the additional service which is optional for each consignment.
    - **[Blank String]** - If no additional service was selected
    - **B10** - Before 10am
    - **AM** - Before 12pm collections
    - **Timed** - For collection at a specific time
    - **Sat** - For collection on a Saturday
  - **ColTailLift** - String(1) - If 'TLift' then a tail lift is required. [Blank] if not required.
  - **ColExtraService** - String(2) - Extra services which are in addition to a main and premium service.
    - **[Blank]** - If no extra service was selected
    - **BI** - Book In, the collection point to be contacted to arrange delivery
    - **Bkd** - Booked, for collection on a specific day
    - **OOH** - Out of Hours, for collection before 9am or after 16:30.
  - **CollectionDateTime** - DateTime - This is the date and time the collection should be completed by.
  - **ConBarcode** - String - The UPN assigned barcode for the consignment.
  - **Pallets** - NetworkPallet() - An array (or list) of the custom type NetworkPallet. More details below.
- **NetworkPallet**
    - **ConBarcode** - String - The UPN assigned barcode for the consignment this pallet belongs to.
      - **Pallet Type** - String - There are five possibilities: Full, Euro, Half, Quarter, Micro
    - **Pallet Size** - String - There are four possibilities:
      - **N** - Normal, up to 1.2m in length
      - **O** - Oversize, up to 1.5m in length
      - **2** - OOG2, up to 2.0m in length
      - **3** - OOG3, up to 3.0m in length
    - **PltBarcode** - String - The UPN assigned barcode for this particular pallet.
  - **ConsignmentTracking**
    - **ConNo** - String - Your consignment number.
    - **ConBarcode** - String - The UPN allocated, unique, barcode for the consignment.
    - **Longitude** - Not currently used.
    - **Latitude** - Not currently used.
    - **Arrived** - DateTime - The date and time the consignment arrived at the delivery point
    - **Unloaded** - DateTime - The date and time the pallets were unloaded from the delivery vehicle
    - **Delivered** - DateTime - The date and time the good were signed for on the SmartPOD application. If this field is nothing, so too will the next three fields
    - **SignatureImage** - Byte() - Currently stored as PNG in our system, this is the signature obtained using the SmartPOD application
    - **PrintedName** - String - The name of the person signing for the goods at the delivery point
    - **DelStatus** - String - The delivery status e.g. 1xDelivered Clean, 1xDelivered Damaged
    - **PaperworkScanned** - DateTime - If not nothing, indicates paperwork has been scanned and at what time. Due to Covid, paperwork isn't currently an option within the network
    - **PaperworkImages** - Byte() - An array of images. Currently stored in our system as JPG. Due to Covid, paperwork isn't currently an option within the network
    - **PalletScans** - PalletTracking() - An array of custom structure (see below). Entries for each of the pallets within the consignment.

- **PalletTracking**
  - **PltBarcode** - String - The UPN assigned barcode for this particular pallet.
  - **InHub** - DateTime - The date and time the pallet was scanned into the UPN Hub
  - **OutHub** - DateTime - The date and time the pallet was scanned out of the UPN Hub
  - **AtDepot** - DateTime - The date and time the pallet was scanned off the trunk vehicle and into the delivery depot
- **NetworkRevenue**
  - **Barcode** - String - The UPN assigned barcode for this particular pallet.
  - **Revenue** - Decimal - The total revenue gained from the delivery.
- **HeldoverPallet**
  - **PltBarcode** - String - The UPN assigned barcode for this particular pallet.
  - **ConBarcode** - String - The UPN assigned barcode for the consignment this pallet is linked to.
- **OutboundVehicle**
  - **ManifestID** - Integer - The unique UPN assigned ID for the vehicle/manifest.
  - **VehicleReg** - String - The Vehicle's Registration.
- **svcPostcode**
  - **Postcode** - String - The unique postcode and district e.g. AB10.
  - **PalletTypes** - svcPalletType() - An array of the custom structure, noted below. This lists all the pallet types available to the postcode district.
  - **Services** - svcService() - An array of the custom structure, noted below. This lists all the services available to the postcode district.
  - **EarliestTime** - Integer - This value is this earliest time a timed delivery can be achieved in this postcode district. The value is the number of minutes after midnight. i.e. the value 540 = 9am.
  - **LatestTime** - Integer - This value is this latest time a timed delivery can be achieved in this postcode district. The value is the number of minutes after midnight. i.e. the value 990 = 4:30pm.
  - **StdDelDays** - Integer - The number of delivery days on the Standard service to the postcode area. i.e. The highlands of Scotland have a 5 day travel time on the standard service.
  - **PalletSizes** - svcPalletSize() - An array of the custom structure, noted below. This lists all the pallet sizes available to the postcode district.
- **svcService**
  - **Main** - Integer - The ID number for the Main Service i.e. 5 = Priority.
  - **Additional** - Integer - The ID number for the Additional Service i.e. 7 = Timed.
  - **Extra** - Integer - The ID number for the Extra Service i.e. 9 = Booked.
  - **Description** - String - The full text description of the service combination.
  - **Order** - Integer - The order of the service to appear in a list (optional).
  - **PreAlert** - Boolean - Indicates whether the service combination needs to be pre-agreed with the delivering member. If this value is true, a notification should be displayed to the user informing them to contact the delivery depot.
- **svcPalletType**
  - **ID** - String(1) - The ID character for the pallet type. I.e. F = Full.
  - **Description** - String - The text description of the pallet type.
- **svcPalletSize**
  - **ID** - Integer - The unique ID number for the pallet size (Can be ignored).
  - **UPNCode** - String(1) - The ID character for the pallet type. I.e. O = Oversize.

- **Description** - String - The text description of the pallet size.
- **Spaces** - Decimal - The number of pallet spaces allocated to the pallet size.

**Other notes:**

If you have any questions or queries you can contact your contracted haulier or alternatively email [it@u-p-n.co.uk](mailto:it@u-p-n.co.uk) and we will respond as soon as possible.