# Standard Interface Configuration

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# Contents

**1 Standard Interface Configuration ..... 1**
1.1 Transfer Types ..... 2
1.2 File Naming ..... 3
1.3 Core CALIDUS Exports ..... 5
1.4 TomTom Export Interfaces ..... 13
1.5 HERE Geocoder ..... 16
1.6 External Tracking System Exports ..... 17
1.7 Imports ..... 22
1.8 CALIDUS Device Settings ..... 24

# 1 Standard Interface Configuration

The data within *CALIDUS* ePOD can be created from many sources:

- Import of jobs, loads and standing data through standard web services.
- Import of jobs and loads through flat-file imports.
- Manual import of Jobs, Loads and Standing Data through the Admin system.
- Manual entry in the Admin system.

That data can be exported from *CALIDUS* ePOD in many ways:

- Requested Export through standard C-ePOD web services.
- Configured export through interfaces.
- XLS export through the Admin system.

This section covers import and export of data through configured interfaces.

All interfaces, import and export, are configured through the *CALIDUS* ePOD Admin system, using the Import/Export Interface screen, with the exception of the hosted web services for import and export of jobs and loads, which are always available to processes that request from these web services.

Import and Export configurations are grouped under Configuration ID, which must then be attached to a Site or Job Groups, through the appropriate maintenance screens. Each interface configured for that ID will then be run for that site or job group.

You can add multiples of each export type to each configuration, allowing for (for example) multiple exports of the same data when a single job or load is completed.

See Auto-Export for details of how this screen is operated.

**Warning**: **It is not enough to create an interface - you must attach a configuration to a site or job group, or the interfaces will never be run. The system will not generate exports for any jobs prior to the assignment of the Interface Configuration ID.**

The processes below note any exceptions to these general rules.

The general parameters are as follows:

| Field | Value |
|---|---|
| EPL_XF_CONFIG_ID | As required. This may be set to the Site ID for Job and Load exports. |
| EPL_DESCRIPTION | As required |
| EPL_XF_TYPE | Transfer type - one of: SOAP, FTP, EMAIL, FILE, POST |
| EPL_XF_DESTINATION | The external URL for SOAP and POST exports, or the email for EMAIL export, or the folder for FILE imports and exports, or the FTP Server for FTP imports and exports. |
| EPL_XF_ID | The export type - see the individual sections below. |
| EPL_EXPORT_FULLHEADERS | Applies to LOAD export types only. |
| EPL_WEB_PARAMETER | Applies to SOAP-type exports only. |
| EPL_WEB_USER | Applies to SOAP, FILE and FTP exports only. |
| EPL_WEB_PASSWORD | Applies to SOAP, FILE and FTP exports only. |
| EPL_SOAP_ACTION | Applies to SOAP-type exports only. |
| EPL_SOAP_NS | Applies to SOAP-type exports only. |
| EPL_SOAP_NS_PREFIX | Applies to SOAP-type exports only. |
| EPL_XF_DIRECTION | O - Export, I - Import |
| EPL_XF_RECIPIENT | Multi-use. For EMAIL, the email address. For TomTom WEBFLEET interfaces, the provided WEBFLEET fleet. |
| EPL_EXPORT_JOB_TYPES | Defines the types of jobs that are exported through this format, of C (Collections), D (Deliveries) and S (Services). |



| Field | Value |
|---|---|
| EPL_XF_MSG_TYPE | Multi-use. For TomTom WEBFLEET interfaces, the provided WEBFLEET API Key. For TTM, the message types. For Job Imports, the file format type. |
| EPL_EXPORT_FORMAT | Multi-use. For TTM, the mode. For POD, the format of the file exported. |
| EPL_IMAGE_TYPE | Applies to POD exports only |
| EPL_TIFF_COMPRESSION | Applies to POD exports only |
| EPL_FILENAME | The export or import filename, plus insertions. |
| EPL_EMAIL_ERRORS | Supports emailing of failed files to the defined email address here. Only applies to some imports and exports. |
| EPL_INCLUDE_CSV_HEADER | Applies to OBS CSV Imports only - defines whether the import contains a line determining the fields being imported. |
| EPL_CONTRACT_OPERATION | Applies to SOAP-type exports only. |
| EPL_SOAP_VERSION | Applies to SOAP-type exports only. Defaults to text/xml; |

## 1.1 Transfer Types

Standard Transfer types set in EPL_XF_TYPE are:

- *SOAP* - a SOAP web service.
- *FTP* - an FTP address.
- *EMAIL* - an Email address.
- *FILE* - a local or network file transfer.
- *POST* - a POST web service i.e. URL to a web page.

Typically, the destination set in EPL_XF_DESTINATION defines all transfer types.

### 1.1.1 FTP

Normally, the destination would be through a URL e.g. ftp://172.190.90.1, which would be configured on the destination to point to a default directory.

Anything after the base above e.g. ftp://172.190.90.1/ARC/IN/ would point to folders underneath that default directory.

The User and Password for the FTP site is defined in EPL_XF_WEB_USER and EPL_XF_WEB_PASSWORD.

### 1.1.2 EMAIL

The destination is set to be an email address or addresses. The delimiter is typically a comma (,) or semi-colon (;), depending on the email server the system is linked to.

Examples:

- a.name@company.com
- a.name@company.com; a.nother@company.com
- a.name@company.com, a.nother@company.com

### 1.1.3 FILE

The local, network or share name full file path is defined in the destination.

Example:

- Local file: C:\FILES\ABC\
- Network mapped: X:\FILES\ABC\
- Network file: \\1.2.3.4\FILES\ABC\
- Domain file: \\myserver\FILES\ABC\





### 1.1.4 POST

The destination is defined by the full URL of the page.

Example:

- http://my.url.com/mypage.asp

Typically this would not require a username and password, but could be defined in EPL_XF_WEB_USER and EPL_XF_WEB_PASSWORD.

### 1.1.5 SOAP

SOAP web services typically require a number of parameters in addition to POST parameters.

The destination is defined as the web service and method.

Example:

- http://my.url.com/mywebservice/method

Other parameters that may be required:

- EPL_WEB_PARAMETER - parameter for the web service e.g. EPOD_ACTUALS-XMLTYPE-IN
- EPL_WEB_USER - username for authenticated web services
- EPL_WEB_PASSWORD - password for authenticated web services
- EPL_SOAP_ACTION -
- EPL_SOAP_NS - namespace URL e.g. http://xmlns.oracle.com/orawsv/MTS_OWNER/DP_EPOD_WEB_SERVICE/EPOD_IN
- EPL_SOAP_NS_PREFIX the namespace ID for the namespace above.
- EPL_CONTRACT_OPERATION - additional level for the web service XML e.g. CXMLTYPE-EPOD_ININput

Typically, web service methods require bespoke content, so usually these settings must be completed in conjunction with a known web service type, as shown below.

## 1.2 File Naming

Generally, for FILE and FTP exports, the file naming default is based on the configuration.

If no filename is specified, the default is:

- EPOD_(EPL_RECIPIENT)_(EPL_XF_CONFIG_ID)_(DATE)_(TIME)_(UID).<ext>

where

- EPL_RECIPIENT - from the configuration
- EPL_XF_CONFIG_ID - from the configuration
- DATE - the current date in yyyyMMdd format
- TIME - the current time in HHmmss format
- UID - a unique identifier per record generated in that run
- ext - the defined extension of the file, based on the ID.

For example:

- EPOD_EUROPA_L02_20180201_104956_1.XML

Filename can be specified in the EPL_FILENAME parameter as any plain text plus the following job-level items:





- EPL_EXT_REF
- EPL_OWNER_NAME
- EPL_SO_NUMBER
- EPL_SITE_ID
- EPL_JOB_ID - a C-ePOD-generated unique identifier for the job for that site.
- EPL_LOAD_ID
- EPL_JOB_CODE
- EPL_CUST_REF
- EPL_CUSTOMER_CODE
- EPL_PF_DEPOT - the pallet network depot code
- DATE
- TIME
- UID

**Note:** The format is the field in parenthesis, so for example:

- EPOD_(EPL_RECIPIENT)_(EPL_SITE_ID)_(DATE)_(TIME)_(UID)

All JOB and Pallet Network exports using FTP or FILE will follow this Filename naming convention.

Where applicable to other types, this is shown below.

# 1.3 Core *CALIDUS* Exports

## 1.3.1 Job

For Export, if this configuration has the same name as the Site that it applies to, it need not be attached to a Site or Job Group through an XF Config ID.

This type exports and imports data through the C-ePOD standard XML format, through web services, file copy or FTP. Exports may also be emailed, where the XML is attached to an email and sent.

 **Note:** This interface is used by *CALIDUS* TMS and *CALIDUS* Total Logistics.

This interface is triggered when a job is completed or cancelled (where the status has been set to "C" or "X").

Standard configuration is as follows:

| Field | Value |
|---|---|
| EPL_XF_TYPE | Any type may be configured for Export. For Import, FILE and FTP are valid. |
| EPL_XF_DESTINATION | The external URL for SOAP and POST exports, or the email for EMAIL export, or the folder for FILE imports and exports, or the FTP Server for FTP imports and exports. |
| EPL_XF_ID | The export type, JOB. |
| EPL_EXPORT_FULLHEADERS | Normally "N" or unchecked. |
| EPL_EXPORT_JOB_TYPES | CD. Defining the job types that are exported. For example, C are collections, D are deliveries. |

Example File Job Export:

| Field | Value |
|---|---|
| EPL_XF_TYPE | FILE |
| EPL_XF_DESTINATION | C:\Test\Stirling\ |
| EPL_XF_ID | JOB |
| EPL_EXPORT_FULLHEADERS | N |
| EPL_XF_DIRECTION | O |
| EPL_EXPORT_JOB_TYPES | CD |

Example CALIDUS TMS Job Export:

| Field | Value |
|---|---|



| Field | Value |
|---|---|
| EPL_XF_TYPE | SOAP |
| EPL_XF_DESTINATION | http://10.43.0.71:8011/orawsv/MTS_OWNER/DP_EPOD_WEB_SERVICE/EPOD_IN |
| EPL_XF_ID | JOB |
| EPL_EXPORT_FULLHEADERS | Y |
| EPL_WEB_PARAMETER | EPOD_ACTUALS-XMLTYPE-IN |
| EPL_WEB_USER | epod |
| EPL_WEB_PASSWORD | as provided |
| EPL_SOAP_ACTION | |
| EPL_SOAP_NS | http://xmlns.oracle.com/orawsv/MTS_OWNER/DP_EPOD_WEB_SERVICE/EPOD_IN |
| EPL_SOAP_NS_PREFIX | epod |
| EPL_XF_DIRECTION | O |
| EPL_EXPORT_JOB_TYPES | CD |
| EPL_CONTRACT_OPERATION | CXMLTYPE-EPOD_ININput |

If no filename is specified for FTP or FILE export types for LOAD exports, the default is:

- EPOD_LOTS_(EPL_SITE_ID)_(DATE)_(TIME)_1

If EPL_FILENAME is provided, this will be translated as described generically.

### 1.3.2 Load

For Export, if this configuration has the same name as the Site that it applies to, it need not be attached to a Site or Job Group through an XF Config ID.

This type exports data through the C-ePOD standard XML format, through web services, file copy or FTP. Exports may also be emailed, where the XML is attached to an email and sent.

 **Note:** This interface is used by *CALIDUS* TMS and *CALIDUS* Total Logistics.

This interface is triggered based on the when a load is started (where the status is "I"), completed or cancelled (where the status has been set to "C" or "X"), based on the configuration of the message (see below).

Standard configuration is as follows:



| Field | Value |
|---|---|
| EPL_XF_TYPE | Any type may be configured for Export. For Import, FILE and FTP are valid. |
| EPL_XF_DESTINATION | The external URL for SOAP and POST exports, or the email for EMAIL export, or the folder for FILE imports and exports, or the FTP Server for FTP imports and exports. |
| EPL_XF_ID | The export type, LOAD |
| EPL_EXPORT_FULLHEADERS | Normally "N" or unchecked. If "Y", this will include the full content of all of the jobs on the load, making a further Job interface redundant. When "N", only the Load is exported, not the jobs. |
| EPL_EXPORT_JOB_TYPES | CD. Defining the job types that are exported, if full headers are set. For example, C are collections, D are deliveries. |
| EPL_XF_MESSAGE_TYPE | Determines thr message trigger point: START (when the load is in progress, END (when the load is completed or cancelled) or BOTH. |

Example CALIDUS TMS Load Export:

| Field | Value |
|---|---|
| EPL_XF_TYPE | SOAP |
| EPL_XF_DESTINATION | http://10.43.0.71:8011/orawsv/MTS_OWNER/DP_EPOD_WEB_SERVICE/EPOD_IN |
| EPL_XF_ID | LOAD |
| EPL_EXPORT_FULLHEADERS | Y |
| EPL_WEB_PARAMETER | EPOD_ACTUALS-XMLTYPE-IN |
| EPL_WEB_USER | epod |
| EPL_WEB_PASSWORD | as provided |
| EPL_SOAP_ACTION | |
| EPL_SOAP_NS | http://xmlns.oracle.com/orawsv/MTS_OWNER/DP_EPOD_WEB_SERVICE/EPOD_IN |
| EPL_SOAP_NS_PREFIX | epod |
| EPL_XF_DIRECTION | O |
| EPL_EXPORT_JOB_TYPES | CD |
| EPL_XF_MESSAGE_TYPE | BOTH |
| EPL_CONTRACT_OPERATION | CXMLTYPE-EPOD_ININput |

If no filename is specified for FTP or FILE export types for LOAD exports, the default is:

- EPOD_LOTS_(EPL_SITE_ID)_(DATE)_(TIME)_1

If EPL_FILENAME is provided, this will be translated as described generically.



### 1.3.3 NAV2016

For connection to NAV2016, the following interface must be configured.

This interface sends back details of completed or cancelled jobs (Collections, Deliveries and Services) in the C-ePOD XML format to the NAV2016 web service, which works in the standard way.

| Field | Value |
|---|---|
| EPL_XF_TYPE | SOAP |
| EPL_XF_DESTINATION | As confirmed, Example: https://nav16.in2grate.co.uk:7167/AELEPODUP/WS/A%26E%20Leisure%20Ltd./Codeunit/GetNAVData |
| EPL_XF_ID | NAV |
| EPL_EXPORT_FULLHEADERS | N |
| EPL_WEB_PARAMETER | xmlStrIn |
| EPL_WEB_USER | NAV-DEV\EPOD |
| EPL_WEB_PASSWORD | As confirmed |
| EPL_SOAP_ACTION | urn:microsoft-dynamics-schemas/codeunit/GetNAVData:ReturnNavDataAsXml |
| EPL_SOAP_NS | urn:microsoft-dynamics-schemas/codeunit/GetNAVData |
| EPL_SOAP_NS_PREFIX | nav |
| EPL_XF_DIRECTION | O |
| EPL_EXPORT_JOB_TYPES | CD |
| EPL_CONTRACT_OPERATION | ReturnNavDataAsXml |
| EPL_SOAP_VERSION | text/xml; charset=utf-8 |

### 1.3.4 *CALIDUS* Portal TTM

This interface must be created when *CALIDUS* ePOD and *CALIDUS* Portal TTM are implemented together, usually without *CALIDUS* TMS.

Details on the interface can be found in the EPOD-TTM Interface guide.

The interface sends through tracking messages at all states of the order, as follows:

- *ORD* - Details of the order, down to individual items.
- *TRP* - the Workload, grouping all the orders together for transport.
- *OIT* - Order In Transit.
- *ARR* - Arrived at destination.
- *DEL*/*COL* - Collected/Delivered - completed job, including all items, quantities and discrepancies.
- *CAN* - Cancelled job.



- *GPS* - Vehicle GPS Tracking messages.

| Field | Value |
|---|---|
| EPL_XF_TYPE | FILE or FTP |
| EPL_XF_DESTINATION | The file folder e.g. E:\Portal\TTM\EDI\DEV\INBOUND\ |
| EPL_XF_ID | TTM |
| EPL_XF_DIRECTION | O |
| EPL_XF_RECIPIENT | |
| EPL_EXPORT_JOB_TYPES | CD |
| EPL_XF_MSG_TYPE | TRP\|CAN\|DEL\|OIT\|ARR\|GPS. If a message type is omitted, that message will not be sent. Typically, GPS is omitted. |
| EPL_EXPORT_FORMAT | Mode 1 or Mode 2 - see below for details. |

For the different modes, the TTM fields are populated as follows:

| Field | MODE 1 | MODE 2 |
|---|---|---|
| TMS Ref | Job Code | Job Code |
| SO Ref | Cust Ref if present, else Job Code | External Ref |
| Book Ref | External Ref | Cust Ref |

If no filename is specified for FTP or FILE export types, the default is:

- EPOD_LOTS_(EPL_SITE_ID)_(TTM_TRACKING_STATUS)_(DATE)_(TIME)_(UID)

where TTM_TRACKING_STATUS is one of the TTM tracking statuses listed above. **Note:** Filenames should not be changed from this format.

### 1.3.5 Vehicle Checks

This interface is used when exporting Vehicle Checks to external systems.

Only those vehicle checks that have been marked as not yet exported will be included.

The format is the C-ePOD Vehicle Check XML Export format.

| Field | Value |
|---|---|
| EPL_XF_TYPE | Any, but typically FILE or FTP or EMAIL |

| Field | Value |
|---|---|
| EPL_XF_DESTINATION | Depending on type |
| EPL_XF_ID | V |

**Note:** All other parameters depend on the type selected.

If no filename is specified for FTP or FILE export types, the default is:

- EPOD_LOTS_(EPL_SITE_ID)_V_(DATE)_(TIME)_(UID)

Filename can be specified in the EPL_FILENAME parameter as described generically above.

### 1.3.6 Job Swap

This interface is used with *CALIDUS* TMS only, when Job Swaps are enabled. In this case, the interface must be enabled to reflect Job Swaps within C-TMS.

The interface format is C-ePOD XML.

Example configuration for C-TMS:

| Field | Value |
|---|---|
| EPL_XF_TYPE | SOAP |
| EPL_XF_DESTINATION | http://10.43.0.71:8011/orawsv/MTS_OWNER/DP_EPOD_WEB_SERVICE/EPOD_IN |
| EPL_XF_ID | JOBSWAP |
| EPL_WEB_PARAMETER | EPOD_ACTUALS-XMLTYPE-IN |
| EPL_WEB_USER | epod |
| EPL_WEB_PASSWORD | as provided |
| EPL_SOAP_ACTION | |
| EPL_SOAP_NS | http://xmlns.oracle.com/orawsv/MTS_OWNER/DP_EPOD_WEB_SERVICE/EPOD_IN |
| EPL_SOAP_NS_PREFIX | epod |
| EPL_XF_DIRECTION | O |
| EPL_CONTRACT_OPERATION | CXMLTYPE-EPOD_ININput |

If no filename is specified for FTP or FILE export types, the default is:

- EPOD_LOTS_(EPL_SITE_ID)_JOBSWAP_(DATE)_(TIME)_(UID)

Filename can be specified in the EPL_FILENAME parameter as described generically above.



### 1.3.7 PODs

This interface is typically used to update Document Management Systems (DMS) with completed POD/POC reports.

**Note:** Emails of PODs to customers and site email addresses are dealt with through a different interface - see Completion Report Emails for details.

The export is normally an image or PDF file.

**Note:** POD and POD2 are functionally identical, but are used to configure multiple exports from C-ePOD. Recent changes mean that these can now all be defined as POD rather than POD2, making this format redundant.

Types of FILE, FTP and EMAIL are supported.

Example format of POD message.

| Field | Value |
|---|---|
| EPL_XF_TYPE | FILE (Types of FILE, FTP and EMAIL are supported.) |
| EPL_XF_DESTINATION | Destination Folder for example: C:\OUTBOUND\POD\ |
| EPL_XF_ID | POD |
| EPL_WEB_USER | User for filesystem, if required. |
| EPL_WEB_PASSWORD | Password for filesystem, if required. |
| EPL_XF_DIRECTION | O |
| EPL_EXPORT_JOB_TYPES | D\|S |
| EPL_EXPORT_FORMAT | Image (formats of HTML, Image, PDF) |
| EPL_IMAGE_TYPE | TIFF (image types of JPG, PNG, TIFF) |
| EPL_TIFF_COMPRESSION | FAX or Zip or None |
| EPL_FILENAME | Filename with insertions, for example: POD_(EPL_EXT_REF)_(DATE)_(TIME)_(UID) |

If no filename is specified for FTP or FILE export types, the default is:

- EPOD_LOTS_(EPL_SITE_ID)_POD_(DATE)_(TIME)_(UID)

Filename can be specified in the EPL_FILENAME parameter as described generically above.



### 1.3.8 Invoices

To be able to email invoices you need to setup an appropriate Email Export Interface.

Example Invoice configuration:

| Field | Value |
|---|---|
| EPL_XF_TYPE | EMAIL |
| EPL_XF_ID | Invoice |
| EPL_XF_DIRECTION | O |
| EPL_EXPORT_FORMAT | Html. |



# 1.4 TomTom Export Interfaces

TomTom interfaces utilise the TomTom WEBFLEET web services to perform the following tasks.

**Note:** A WEBFLEET fleet, user and password will be required to use these services.

**Warning**: The TomTom WEBFLEET import and export processes will **not** process unless the automatic export and import processes have been set up and configured for TomTom WEBFLEET use - check with the system administrator.

## 1.4.1 Geocoder

The Geocoder service is used to generate Lat/Longs from addresses. As locations are created or updated, the LatLong will be requested to be updated.

Example format for TomTom Geocoder:

| Field | Value |
|---|---|
| EPL_XF_TYPE | SOAP |
| EPL_XF_DESTINATION | https://soap.business.tomtom.com/v1.25/addressService |
| EPL_XF_ID | TG |
| EPL_WEB_PARAMETER | |
| EPL_WEB_USER | Provided WEBFLEET user |
| EPL_WEB_PASSWORD | Provided WEBFLEET password |
| EPL_SOAP_NS | http://connect.webfleet.tomtomwork.com/services |
| EPL_SOAP_NS_PREFIX | ser |
| EPL_XF_DIRECTION | O |
| EPL_XF_RECIPIENT | Provided WEBFLEET fleet |
| EPL_XF_MSG_TYPE | WEBFLEET API Key - for CALIDUS ePOD this is 000fcb2a-6631-477a-b00e-de0505e7c7e3 |
| EPL_EXPORT_FORMAT | An optional control of how to send address information to WEBFLEET. |
| EPL_CONTRACT_OPERATION | geocodeAddress |

The process can be configured to send addresses to the TomTom WEBFLEET geocoder in 2 main formats:

- Fixed.
- Freetext.

In Fixed mode, the process will send the following data to the geocoder:

- Street, set as Address Line 1.
- Postcode.
- Country, set by default to 'GB'. The OBS Logistics implementation team can configure this to any other country by default.

This is the default mode, when EPL_EXPORT_FORMAT is left blank. This method is useful when the address data in C-ePOD has been fixed by the customer, so that address line 1 is always the street. However, it does not account for data where a company name is provided in address line 1, nor can it use any places of interest (POI) databases provided by WEBFLEET to make the returned location more specific.

In Freetext mode, the process builds a free-text address from portions of the address being geocoded. The configuration of EPL_EXPORT_FORMAT governs the data sent through, as follows:

- If the string includes "N", the name is included in the free-text address.
- If the string includes "1", the first line of the address is included in the free-text address.
- If the string includes "2", the second line of the address is included in the free-text address.
- If the string includes "3", the third line of the address is included in the free-text address.
- If the string includes "4", the fourth line of the address is included in the free-text address.



- If the string includes "5", the fifth line of the address is included in the free-text address.
- If the string includes "P", the postcode is included in the free-text address.

Although this process is looser for WEBFLEET, the ability to control any of the address fields the process sends to the geocoder means that the results, when configured correctly, can be much more accurate.

**Examples:**

For an address as follows:

- Name - "My Company"
- Address Line 1 - "123 Acacia Avenue"
- Address Line 2 - "Anywheretown"
- Address Line 3 - ""
- Address Line 4 - "Anywhereshire"
- Address Line 5 - ""
- Postcode - "NE14 10S"

**Example 1 - Fixed:**

The process sends through the following data:

- Street - "123 Acacia Avenue"
- Postcode - "NE14 10S"
- Country - "GB"

**Example 2 - Freetext:**

Where the configuration is "N124P", the process sends through the following data:

- Freetext- "My Company 123 Acacia Avenue Anywheretown Anywhereshire NE14 10S"

**Example 3 - Freetext:**

Where the configuration is "1P", the process sends through the following data:

- Freetext- "123 Acacia Avenue NE14 10S"

### 1.4.2 TomTom WEBFLEET Orders

This interface is used to export workloads of orders out to WEBFLEET to appear on WEBFLEET head units as a kind of Job List.

**Note:** In order for these messages to be interfaced, the workload must be assigned to a vehicle with a valid TomTom WEBFLEET external ID, and the workload must be in progress.

The interface will handle deleting orders from a head-unit and creating new orders.

The message uses a combination of WEBFLEET web service methods, and are fixed and bespoke for this interface.

Example format for TomTom WEBFLEET Orders:

| Field | Value |
|---|---|
| EPL_XF_TYPE | SOAP |
| EPL_XF_DESTINATION | https://soap.business.tomtom.com/v1.25/ordersService |
| EPL_XF_ID | TO |
| EPL_WEB_PARAMETER | |
| EPL_WEB_USER | Provided WEBFLEET user |

| Field | Value |
|---|---|
| EPL_WEB_PASSWORD | Provided WEBFLEET password |
| EPL_SOAP_NS | http://connect.webfleet.tomtomwork.com/services |
| EPL_SOAP_NS_PREFIX | ser |
| EPL_XF_DIRECTION | O |
| EPL_XF_RECIPIENT | Provided WEBFLEET fleet |
| EPL_XF_MSG_TYPE | WEBFLEET API Key - for CALIDUS ePOD this is 000fcb2a-6631-477a-b00e-de0505e7c7e3 |
| EPL_CONTRACT_OPERATION | geocodeAddress |



## 1.5 HERE Geocoder

**Note:** Valid HERE account details are required to use these services.

The Geocoder service is used to generate Lat/Longs from addresses. As locations are created or updated, the LatLong will be requested to be updated.

Example format for TomTom Geocoder:

| Field | Value |
|---|---|
| EPL_XF_TYPE | POST |
| EPL_XF_DESTINATION | https://geocoder.api.here.com/6.2/geocode.xml |
| EPL_XF_ID | HG |
| EPL_XF_DIRECTION | O |
| EPL_XF_RECIPIENT | Provided HERE account |
| EPL_XF_MSG_TYPE | Provided HERE API Key |
| EPL_EXPORT_FORMAT | An optional control of how to send address information to WEBFLEET. |

The process builds a free-text address from portions of the address being geocoded. The configuration of EPL_EXPORT_FORMAT governs the data sent through, as follows:

- If the string includes "N", the name is included in the free-text address.
- If the string includes "1", the first line of the address is included in the free-text address.
- If the string includes "2", the second line of the address is included in the free-text address.
- If the string includes "3", the third line of the address is included in the free-text address.
- If the string includes "4", the fourth line of the address is included in the free-text address.
- If the string includes "5", the fifth line of the address is included in the free-text address.
- If the string includes "P", the postcode is included in the free-text address.

**Examples:**

For an address as follows:

- Name - "My Company"
- Address Line 1 - "123 Acacia Avenue"
- Address Line 2 - "Anywheretown"
- Address Line 3 - ""
- Address Line 4 - "Anywhereshire"
- Address Line 5 - ""
- Postcode - "NE14 10S"

**Example 1:**

Where the configuration is "N124P", the process sends through the following data:

- Freetext- "My Company 123 Acacia Avenue Anywheretown Anywhereshire NE14 10S"

**Example 2:**

Where the configuration is "1P", the process sends through the following data:

- Freetext- "123 Acacia Avenue NE14 10S"

## 1.6 External Tracking System Exports

External tracking system updates are generally bespoke services required to be updated by specific carriers.

As such, they are typically attached to a specific Job Group, and will be exported along with the general Site configuration when the job is updated to comp[lete or cancelled.

**Note:** For most of these messages, additional information is required on receiving the job:

- PF Depot - Depot for external tracking
- PF Tracking Number - the external tracking reference

### 1.6.1 PalletForce

The Palletforce configuration is attached directly to the PALLET job group and site without setting an XF Config ID, and requires specific configuration of the name to the Site and PF Depot - please contact your OBSL representatives for details.

For example, for a PalletForce job, for site L02, with PalletForce depot code 177, this would be configured with an XF Config ID of "PALLETL02_177".

A flat-file interface of FILE or FTP is required.

The interface updates each pallet and consignment, and provides the signature.

Example Palletforce configuration:

| Field | Value |
|---|---|
| EPL_XF_TYPE | FTP |
| EPL_XF_DESTINATION | ftp://10.43.0.73/testftp/ |
| EPL_XF_ID | PF |
| EPL_EXPORT_FULLHEADERS | |
| EPL_WEB_PARAMETER | |
| EPL_WEB_USER | Provided FTP or filesystem username |
| EPL_WEB_PASSWORD | Provided FTP or filesystem password |
| EPL_EXPORT_JOB_TYPES | D |

### 1.6.2 PALLEX

This is a SOAP web service only to the Pallex TWINE system.

The interface updates each pallet and consignment, and provides the signature.

Example Pallex configuration:

| Field | Value |
|---|---|
| EPL_XF_TYPE | SOAP |
| EPL_XF_DESTINATION | Web service URL e.g. http://82.3.53.216/depotcustomer.asmx |
| EPL_XF_ID | PALLEX |
| EPL_WEB_USER | Provided Pallex TWINE username |
| EPL_WEB_PASSWORD | Provided Pallex TWINE password |
| EPL_SOAP_NS | http://tempuri.org/ |
| EPL_SOAP_NS_PREFIX | tem |
| EPL_XF_DIRECTION | O |
| EPL_EXPORT_JOB_TYPES | D |

### 1.6.3 TPN

This is a SOAP web service only to the TPN Connect system.

The TPN configuration is attached directly to the TPN job group and site without setting an XF Config ID, and requires specific configuration of the name to the Site and PF Depot - please contact your OBSL representatives for details.

For example, for a TPN job, for site L02, with TPN depot code 177, this would be configured with an XF Config ID of "TPNL02_177".

The interface sends one message per consignment, to update a pallet and consignment with delivery, signatory and signature information.

Example TPN configuration:

| Field | Value |
|---|---|
| EPL_XF_TYPE | SOAP |
| EPL_XF_DESTINATION | http://dev.tpnconnect.com:3268/ThirdPartyServices.svc |



| Field | Value |
|---|---|
| EPL_XF_ID | TPN |
| EPL_WEB_USER | Provided TPN Connect username |
| EPL_WEB_PASSWORD | Provided TPN Connect password |
| EPL_SOAP_NS | http://schemas.datacontract.org/2004/07/ConnectSystem.Models.Integration;http://tempuri.org/ |
| EPL_SOAP_NS_PREFIX | con;tem |
| EPL_XF_DIRECTION | O |
| EPL_EXPORT_JOB_TYPES | D |

### 1.6.4 EUROPA

The Eurpoa configuration is attached directly to the EUROPA job group and site without setting an XF Config ID, and requires specific configuration of the name to the Site and PF Depot - please contact your OBSL representatives for details.

A flat-file interface of FILE or FTP is required.

Europa systems match the OBS XML file format.

Example Europa configuration:

| Field | Value |
|---|---|
| EPL_XF_TYPE | FTP |
| EPL_XF_DESTINATION | ftp://ftp.europa-worldwide.com |
| EPL_XF_ID | JOB |
| EPL_EXPORT_FULLHEADERS | N |
| EPL_WEB_USER | Provided FTP or filesystem username |
| EPL_WEB_PASSWORD | Provided FTP or filesystem password |
| EPL_XF_RECIPIENT | EUROPA |
| EPL_EXPORT_JOB_TYPES | D |

### 1.6.5 GAP

This is a flat-file exort only of GAP 861 messages in ANSI X12 format.



A flat-file interface of FILE or FTP is required.

**Note:** This interface requires a secure middleware interface, as GAP only accepts files from trusted sources.

Example GAP 861 configuration:

| Field | Value |
|---|---|
| EPL_XF_TYPE | FILE |
| EPL_XF_DESTINATION | C:\FILES\GAP |
| EPL_XF_ID | GAP861 |
| EPL_WEB_USER | Provided FTP or filesystem username |
| EPL_WEB_PASSWORD | Provided FTP or filesystem password |
| EPL_XF_DIRECTION | O |
| EPL_XF_RECIPIENT | GAP |
| EPL_EXPORT_JOB_TYPES | CD |
| EPL_EMAIL_ERRORS | Supports emailing of failed files to the defined email address here. |

For FILE and FTP exports, the file naming default is based on the configuration.

If no filename is specified for FTP or FILE export types, the default is:

- EPOD_(EPL_RECIPIENT)_(EPL_XF_ID)_(DATE)_(TIME)_(UID)

Filename can be specified in the EPL_FILENAME parameter as described generically above.

### 1.6.6 Palletline

This is a FTP flatfile update to the Palletline Contrado system.

The interface sends one message per consignment, to update a pallet and consignment with delivery, signatory and signature information.

If this is configured, the system will also send one Arrival message per consignment.

Example Palletline configuration:

| Field | Value |
|---|---|



| Field | Value |
|---|---|
| EPL_XF_TYPE | FILE |
| EPL_XF_DESTINATION | E:\ftpserver\customer\out |
| EPL_XF_ID | PLINE |
| EPL_XF_DIRECTION | O |

### 1.6.7 Hazchem

This is a FTP flatfile update to the Hazchem HazchemOnline system.

The interface sends one message per consignment, to update a pallet and consignment with delivery, signatory and signature information.

If this is configured, the system will also send one Arrival message per consignment.

Example Hazchem configuration:

| Field | Value |
|---|---|
| EPL_XF_TYPE | FILE |
| EPL_XF_DESTINATION | E:\ftpserver\customer\out |
| EPL_XF_ID | HAZCHEM |
| EPL_XF_DIRECTION | O |





## 1.7 Imports

For FILE-type job and load imports, the import file is archived in a configured archive directory, which can be Site-related. The same is true of files that error on import.

### 1.7.1 OBS XML

This interface defines imports of Jobs, Loads and standing data in the C-ePOD XML format, as used by the web services.

In all ways, this operates as the standard web services, except that this can process an XML flat file.

Example XML Import configuration:

| Field | Value |
|---|---|
| EPL_XF_TYPE | FILE only |
| EPL_XF_DESTINATION | Import folder e.g. C:\INBOUND\MSG_TYPE\IN |
| EPL_XF_ID | JOB |
| EPL_WEB_PARAMETER | |
| EPL_WEB_USER | Provided FTP or filesystem username |
| EPL_WEB_PASSWORD | Provided FTP or filesystem password |
| EPL_XF_DIRECTION | I |
| EPL_XF_MSG_TYPE | X |
| EPL_EMAIL_ERRORS | Supports emailing of failed files to the defined email address here. |

### 1.7.2 OBS CSV

This is a feature-limited import in CSV format only. This is typically only used when external systems cannot match the XML format. This matches the import through the Admin Import screen for jobs.

This interface allows creation of Loads, Collection and Delivery jobs, with Containers and/or products.

Example OBS CSV Import configuration:

| Field | Value |
|---|---|
| EPL_XF_TYPE | FTP or FILE |
| EPL_XF_DESTINATION | Import folder e.g. C:\INBOUND\MSG_TYPE\IN |
| EPL_XF_ID | JOB |
| EPL_WEB_PARAMETER | |
| EPL_WEB_USER | Provided FTP or filesystem username |
| EPL_WEB_PASSWORD | Provided FTP or filesystem password |
| EPL_XF_DIRECTION | I |
| EPL_XF_MSG_TYPE | GEN or Blank |
| EPL_EMAIL_ERRORS | Supports emailing of failed files to the defined email address here. |

### 1.7.3 Partnerlink JobShare Format

This is a feature-limited import in CSV format only. This is typically only used when external systems cannot match the XML format. This matches the import through the Admin Import screen for jobs.

This interface creates pallets for delivery based on the quantity against a single line, assigning IDs in a specified format, counting the pallets sequentially.

Example Partnerlink CSV Import configuration:



| Field | Value |
|---|---|
| EPL_XF_TYPE | FTP or FILE |
| EPL_XF_DESTINATION | Import folder e.g. C:\INBOUND\MSG_TYPE\IN |
| EPL_XF_ID | JOB |
| EPL_WEB_PARAMETER | |
| EPL_WEB_USER | Provided FTP or filesystem username |
| EPL_WEB_PASSWORD | Provided FTP or filesystem password |
| EPL_XF_DIRECTION | I |
| EPL_XF_RECIPIENT | For non-Vigo imports, replaces occurrences of AKW in the destination path with the value in this field. |
| EPL_XF_MSG_TYPE | P |
| EPL_EMAIL_ERRORS | Supports emailing of failed files to the defined email address here. |

### 1.7.4 TomTom WEBFLEET Update

This interface is used to pull back updates from TomTom WEBFLEET, to use in Planned vs Actuals reporting at a detailed level.

**Warning**: This process needs setting up just once for the TomTom fleet, regardless of how many sites there are, as the returned data is per fleet not per site. This interface need not be attached to a Site or Job Group to be effective.

**Warning**: The TomTom WEBFLEET import and export processes will **not** process unless the automatic export and import processes have been set up and configured for TomTom WEBFLEET use - check with the system administrator.

The interface will capture distance and time from TomTom WEBFLEET. It can also capture breaks on the device.

**Note:** This interface requires a message queue configured on TomTom WEBFLEET to operate effectively. If one is not created, the process will create one the first time it is run, but no data prior to that point will be imported.

Example format for TomTom WEBFLEET Orders Inbound:

| Field | Value |
|---|---|
| EPL_XF_TYPE | SOAP |
| EPL_XF_DESTINATION | https://soap.business.tomtom.com/v1.28/messagesService |
| EPL_XF_ID | TO |
| EPL_WEB_USER | Provided WEBFLEET user |
| EPL_WEB_PASSWORD | Provided WEBFLEET password |
| EPL_SOAP_NS | http://connect.webfleet.tomtomwork.com/services |
| EPL_SOAP_NS_PREFIX | ser |
| EPL_XF_DIRECTION | I |
| EPL_XF_RECIPIENT | Provided WEBFLEET fleet |
| EPL_XF_MSG_TYPE | WEBFLEET API Key - for CALIDUS ePOD this is 000fcb2a-6631-477a-b00e-de0505e7c7e3 |

### 1.7.5 DiPS Route Creation/Optimisation

This interface will import and create or update jobs and workload from the DiPS route optimiser.

The interface processes DiPS export files and supports the standard for DiPS - CSV files. All known fields are supported, although only a few of the fields are mapped to *CALIDUS* ePOD data - please contact your OBSL representatives for details of this mapping.

The file can be imported through FTP or FILE types.

Example format for the DiPS route optimiser:

| Field | Value |
|---|---|



| Field | Value |
|---|---|
| EPL_XF_TYPE | FILE |
| EPL_XF_DESTINATION | C:\EPOD_DATA\EPOD_LOCALHOST\INBOUND\[SITE_ID]\IMPORT\IN |
| EPL_XF_ID | DIPS |
| EPL_XF_DIRECTION | I |
| EPL_XF_MSG_TYPE | GEN |
| EPL_FILENAME | DIPS2EPOD_[YYYYMMDD].xls |
| EPL_EMAIL_ERRORS | Supports emailing of failed files to the defined email address here. |

### 1.7.6 EBB Import

This is a feature-limited bespoke import in multiple parts. This is used by a single client.

**Note:** As a bespoke interface, this is likely of limited re-use. However, this may be of use when utilising Great Plains / Microsoft Dynamics GP WMS/ERP software. This requires a manifest file produced from the pick list, and an MSA view onto the database to operate successfully

This interface allows creation of Loads, Collection and Delivery jobs, with products.

Example EBB Import configuration:

| Field | Value |
|---|---|
| EPL_XF_TYPE | FTP or FILE |
| EPL_XF_DESTINATION | Import folder e.g. C:\INBOUND\MSG_TYPE\IN for the XML Manifest file |
| EPL_XF_ID | EBB |
| EPL_DB_CONNECTION | Data connection information to the MSA View: "Data Source=<ip>, <port>;Initial Catalog=<db>;User Id=<user>;Password=<pass>", replacing the '<*>' parameters with the required configuration. |

## 1.8 *CALIDUS* Device Settings

Import/Export configurations can also be used on the mobile device. Specific configurations for the device can be configured in the same way. The acceptable interfaces are shown below.

### 1.8.1 TomTom WEBFLEET Device Settings

These settings are used on the device to connect to WEBFLEET and obtain the vehicle that the device is connected to, using the WEBFLEET user ID. The Odometer reading is also retrieved.

Example format for TomTom WEBFLEET Device Settings:

| Field | Value |
|---|---|
| EPL_XF_TYPE | SOAP |
| EPL_XF_DESTINATION | https://soap.business.tomtom.com/v1.31/objectsAndPeopleReportingService |
| EPL_XF_ID | TD |
| EPL_WEB_USER | Provided WEBFLEET user |
| EPL_WEB_PASSWORD | Provided WEBFLEET password |
| EPL_SOAP_NS | http://connect.webfleet.tomtomwork.com/services |
| EPL_SOAP_NS_PREFIX | ser |
| EPL_XF_DIRECTION | D (Device) |
| EPL_XF_RECIPIENT | Provided WEBFLEET fleet |
| EPL_XF_MSG_TYPE | WEBFLEET API Key - for CALIDUS ePOD this is 000fcb2a-6631-477a-b00e-de0505e7c7e3 |