Location Intelligence
Infrastructure Asset Management

Confirm®

Import Anything Specification

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Specifications

The following sections outline all the Specifications that exist within the Confirm functionality.

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Import Anything Specification 6

Import Anything Specification

Introduction

This document is an import file specification for the Import Data utility in the Confirm client software, and for the Import Anything Agent.

This document should be used in conjunction with training/consultancy in the use of the system's data import facilities.

The types of record that can be imported are listed in the table below, along with the Module(s) required to be able to import them.

Records to be imported	Module(s) required
Sites	SG - Gazetteer Import Agent (3020)
Highway Dedication	SG - Level 3 Compiler (3010) **OR** Map (0425)
Features and Feature Attributes	AR – Import Agent (0195)
Inventory and Inventory Attributes	AR – Import Agent (0195) AR – Inventory (0112)
Surveys	PMS - Observation Data (4010)
Asset Valuation Logs	Asset Valuation and Depreciation (1500)
Allocated Regimes	Asset Maintenance (0700)
Inspection Routes	Condition Survey (0500)
Jobs and Job Items	Condition Survey – Import Agent (0610)
Inspection Features and Conditions	Condition Survey – Import Agent (0610)
Defects and Defect Attributes	Condition Survey – Import Agent (0610) Defect Attributes (0510)
Defect Update	Condition Survey (0500)
Monitoring Items	PM – Import Agent (1110)
Traffic Count Surveys	Traffic Count Data (4500)

Note: Asset Valuation Logs can be imported via the Import Data utility without an Import Agent Module. However, the Module 'Asset Valuation – Import Agent' (1530) is required to load them via the Import Anything Agent. For details on importing files formatted for the previous Asset Value Log Import Utility see **Asset Valuation Log Import Transformation**.

Sites

Confirm module 3020 is required to import Site records.

Multiple instances of a Site record can be imported in a single file, with the last instance being considered the most current version. Therefore the first instance is updated with any changes found in subsequent instances in the order in which they appear in the import file.

Field	Size	Type	Comment
Row Type	-	-	1 for the header row, 2 for data rows
Record Type	-	-	'Central Site'
Code	10	Character	Mandatory
Name	40	Character	Mandatory
Plan number	15	Character	Site records only
Category	4	Character	Defaults from System Setting
Area	4	Character	Defaults from System Setting
Ward	4	Character	Defaults from System Setting
Extent 1 Easting	10 (8.2)	Numeric	
Extent 1 Northing	10 (8.2)	Numeric	
Extent 1 Altitude	10 (8.2)	Numeric	
Extent 2 Easting	10 (8.2)	Numeric	
Extent 2 Northing	10 (8.2)	Numeric	
Extent 2 Altitude	10 (8.2)	Numeric	
Centroid Easting	10 (8.2)	Numeric	
Centroid Northing	10 (8.2)	Numeric	
Centroid Altitude	10 (8.2)	Numeric	
Organisation	8	Character	Defaults from System Setting
Street Type	1 (1.0)	Numeric	Mandatory If Street Type found in Confirm then use record. Else if Street Type found in Confirm as External Reference then use the matching record with the lowest Street Type Code. Else use System Default If Street Type Alias Flag = 'N' then a Site record is created.
Locality	35	Char	If any of the locality fields contains data then all are considered to contain data.
Town	35	Char	(see Locality)
County	35	Char	(see Locality)
Version	4 (4.0)	Numeric	Defaults from System Setting
Start Date		Date	Default to current date

Field	Size	Type	Comment
End Date		Date	Default to EOT
Central Notes	2000	Character	
Address	2000	Character	
Customer	4	Character	
Contract Area	4	Character	
Classification	4	Character	
Cost code	15	Character	
Notes	2000	Character	
Site External Ref	10	Character	
Site Tolerance	3 (3.0)	Numeric	Defaults to 0
Modified Date		Date	Default to current date
Published Date		Date	Default to NULL
Site State Code	4	Character	Default to NCA
Site State Date		Date	Set to current date if Site State Code is supplied and Site State Date is blank.
Site Surface Code	4	Character	Default to NCA

System Settings - The following Import Anything System Settings should be set if they are not contained within the imported Site record.

Category, Area, Ward, Street Type, Classification, Contract Area, Customer and Cost Code

Importing Site Record Updates

In order to update an existing Site record, the Site Code needs to be specified, to identify the record, along with any of the fields that require updating. Any data fields that are not specified in the file will remain unchanged in the database.

To update Site name, corresponding Site address must also be provided.

For example, Sturmer Court (Site Code 8121221901) is a Site Record already held within the Confirm database. It falls within the Area of Kings Hill and the Ward of Mereworth.

Suppose the user wishes to correct the extent coordinates of the Site. In order to do this, only the Code and the changing data needs to be specified in the import file, as in this comma delimited example:

Site File

```
Code,Extent 1 Easting,Extent 1 Northing,Extent 2 Easting,Extent 2
Northing
8121221901,340362.22,367888.66,340361.49,367977.31
```

Now suppose the user wishes to change the Ward in which the Site resides due to a local government re-organisation of Ward Boundaries. In order to do this, again only the Code and the changing data needs to be specified in the import file, as in this comma delimited example:

Site File

```
Code,Ward
8121221901,WEML
```

Here the Site code for Sturmer Court has been specified, along with the Code for the new Ward (West Malling). As the other information about the Site (e.g. the Area) has not been specified in the file it will remain unchanged.

Note: In the above example, it is assumed that the new ward of West Malling already exists within the Confirm database. If this is not the case, Confirm would create a new Ward with a code of WEML and a Name of WEML.

In order to provide Confirm with the naming information about the ward via the import procedure, the optional comma delimited Ward file would need to be imported:

Ward File

```
Code,Name
WEML,West Malling
```

These optional files can be used to cross-reference the Codes specified in the main file if they do not already exist within the database.

Highway Dedication

Confirm module 3010 and 0425 is required to import Highway Dedication records.

The ESU (Elementary Street Units) against which Highway Dedications are being imported must exist in the Map Workspace in the NSG Manager screen.

Field	Size	Type	Comment
Row Type	-	-	1 for the header row, 2 for data rows
Record Type	-	-	'Esu Dedication'
ESU Id	14	Character	Mandatory
ESU Dedication Number	2(2,0)	Numeric	Mandatory
Highway Dedication Code	4	Character	Mandatory (Lookup)
Record Entry Date		Date	Defaults to current date if not supplied
Last Updated Date		Date	Defaults to current date if not supplied
Record End Date		Date	
Hd Start Date		Date	Mandatory
Hd End Date		Date	Optional
Hd Start Time		Character	Optional (e.g. '11:15', '22:45')
Hd End Time		Character	Optional (e.g. '11:15', '22:45')
Hd Prow	1	Character	'0' or '1'. If not specified then will default to '0'.

Field	Size	Type	Comment
Hd Ncr	1	Character	'0' or '1'. If not specified then will default to '0'.
Hd Quiet Route	1	Character	'0' or '1'. If not specified then will default to '0'.
Hd Obstruction	1	Character	'0' or '1'. If not specified then will default to '0'.
Hd Planning Order	1	Character	'0' or '1'. If not specified then will default to '0'.
Hd Works Prohibited	1	Character	'0' or '1'. If not specified then will default to '0'.
Hd Seasonal Start Date		Date	Optional
Hd Seasonal End Date		Date	Optional

Note - Highway Dedication record are deleted and then Inserted when records are imported from NSG Import 8.1.

Highway Dedication record are inserted and updated when records are imported from Import Anything.

Sample File

The following sample file creates a new Highway Dedication against an existing Esu:

```
1,Esu Dedication,Esu Id,Esu Dedication Number,Highway Dedication
Code,Record Entry Date,Last Updated Date,Record End Date,Hd Start
Date,Hd End Date,Hd Start Time,Hd End Time,Hd Prow,Hd Ncr,Hd Quiet
Route,Hd Obstruction,Hd Planning Order,Hd Works Prohibited,Hd Seasonal
 Start Date,Hd Seasonal End Date
2,Esu Dedica-
tion,26782320918 4,4,HD09,05/09/2015,05/09/2015,05/10/2015,05/09/2015,05/10/2015,11:12,11:23,0,0,0,0,,1,05/09/2015,05/10/2015
```

Features and Feature Attributes

Feature

Confirm module 0195 is required to import Feature records.

The Sites against which Features are being imported must exist in Confirm or be present in the import file.

Field	Size	Type	Comment
Row Type	-	-	1 for the header row, 2 for data rows
Record Type	-	-	'Feature'
Record Id	50	Character	Mandatory for a new feature
Site Code	10	Character	Mandatory for a new Feature. See Discard

Field	Size	Type	Comment
			Blank Site Records for an exception.
Plot Number	10 (8.2)	Numeric	Can be auto-generated for a new Feature
Central Asset ID	20	Character	
Feature ID	15	Character	
Start Date		Date	Defaulted to current date
End Date		Date	
Feature Type	4 or 30	Character	Mandatory
Site Classification	4 or 30	Character	Defaults from the Site if not supplied.
Customer	4 or 30	Character	Defaults from the Site if not supplied.
Cost Code	15 or 30	Character	Defaults from the Site if not supplied.
Area	4 or 30	Character	Defaults from the Site if not supplied.
Ward	4 or 30	Character	Defaults from the Site if not supplied.
Contract Area	4 or 30	Character	Defaults from the Site if not supplied.
Extent 1 Easting	10 (8.2)	Numeric	
Extent 1 Northing	10 (8.2)	Numeric	
Extent 1 Altitude	10 (8.2)	Numeric	
Extent 2 Easting	10 (8.2)	Numeric	
Extent 2 Northing	10 (8.2)	Numeric	
Extent 2 Altitude	10 (8.2)	Numeric	
Centroid Easting	10 (8.2)	Numeric	
Centroid Northing	10 (8.2)	Numeric	
Centroid Altitude	10 (8.2)	Numeric	
External Asset Ref	20	Character	
Feature location	2000	Character	
Feature notes	2000	Character	
Survey date		Date	
Hierarchy Level Code	2 (2.0)	Numeric	
Property ID	20	Character	
Asset Category	4 or 30	Character	
Asset Control Type	4 or 30	Character	
Function	4 or 30	Character	
Active from date		Date	
Active to date		Date	

Field	Size	Type	Comment
Direct Flag	1 or 7	Character	Reverse(R),Forward(F),Normal(F), N(F)
Inventory Flag	1	Character	Full (F) or Partial (P) or Full by Inventory Type (I). Defaults to Full By Inventory Type.

The External Asset Ref. allows cross-referencing to another Asset register that is not able to use the same Asset identification technique used by Confirm. If the Central Asset ID is not supplied, then Confirm will assign a unique ID to the asset on import.

The hierarchy level determines the level of the asset in the hierarchical data model (1 being the top, 99 the bottom). Steps of 10 are recommended.

Features are identified through the following methods in the specified order. The absence of any form of identification will result in an error.

1) Site and Plot Number

2) Site and Central Asset ID

3) Site, Feature ID and Start Date. Start date in this instance is used as an effective date.

Features cannot be modified so that the Feature itself or any of its Inventory has a start date greater than the end date

Versioning of a Feature can only occur if the unique Feature ID system setting is set to true. When versioning a Feature the Feature ID must be the same as the existing Feature but with a different Central Asset ID. The existing Feature with the greatest start date is always selected as the Feature to version.

Feature Type - When versioning a feature, where Feature Type is not supplied the Import System Setting screen should have the default Feature Type set.

Discard Blank Site Records - This check box on the Import Anything System Setting screen should be set in order to discard those Feature records with a blank Site Code. This prevents these records from being imported without raising an error and thus the import file being rejected.

Direct Flag - For importing Inventory. Specifies whether the Inventory data in the file is in the Forward or Reverse direction relative to the Feature.

Inventory Flag - For importing Inventory. Determines how existing Inventory on the Feature will be dealt with, as follows:

- **Partial** - This will check whether there is any overlap between Inventory Items in the import file and those in the database, and if so an error message will be displayed and it will not be possible to save the data.
- **Full** - This will End Date all existing Inventory Items on the Features to which new Inventory Items are being imported.
- **Full by Inventory Type** - This will also End Date existing Inventory Items, however for each Feature only existing Inventory of an Inventory Type being imported to that Feature will be End Dated. For example if the import file only contains Footway Items for a particular Feature, then existing Footway on that Feature will be End Dated but all other Inventory will remain Live.

When a feature being imported is a point feature the spatial geometry will be updated, provided that geometry is also a point.

Feature Attribute

Confirm module 0195 is required to import Feature Attribute records.

Note that as on the 'Attributes' tab of the Feature screen, Feature Attributes here covers Feature Text Attributes, Feature Measurements, and Feature Dates. Each record will be interpreted as follows:

If 'Date' is supplied, the record is treated as a Feature Date. The supplied Attribute Type Code must correspond to a Date Type in Confirm.

If 'Value' is supplied, the record is treated as a Feature Measurement. The supplied Attribute Type Code must correspond to a Measurement Type in Confirm.

If 'Option' or 'Text' is supplied, the record is treated as a Feature Text Attribute. The supplied Attribute Type Code must correspond to an Attribute Type in Confirm.

If none of these is supplied, the record is rejected.

Field	Size	Type	Comment
Row Type	-	-	1 for the header row, 2 for data rows
Record Type	-	-	'Feature Attribute'
Parent Id	50	Character	Mandatory
Attribute Type Code	4	Character	Mandatory
Option	4	Character	
Value	12(10.2)	Numeric	
Date		DateTime	
Text	2000	Character	

Loaded Date - a Date Type to act as the Loaded Date can be specified in the Import Anything Settings screen. This will be set to the current date for all Features created via this import, including new versions of existing Features. The Loaded Date does not get set for existing Features that are being updated. If a value for this Date Type is supplied as a Feature Attribute in the file, it will be ignored.

Note: Feature/ Asset ID update is not supported.

Sample File

The following sample file creates three new Features, each with a Pick List Attribute (COLO), a Date (INDA) and a Measurement (WIDT). The second Feature also has a Document Link associated with it.

```
1,Feature,Record Id,Site Code,Plot Number,Feature Id,Feature Type,Start
 Date,End Date,Feature Location
1,Feature Attribute,Parent Id,Attribute Type Code,Option,Value,Date,Text
2,Feature,FEAT001,HIGHST,3001,FT1/001,FT1,01/01/2018,,Opposite number
 25
2,Feature Attribute,FEAT001,COLO,RED,,,
2,Feature Attribute,FEAT001,INDA,,,02/03/2018
2,Feature Attribute,FEAT001,WIDT,,11.3,,
2,Feature,FEAT002,HIGHST,3002,FT1/002,FT1,01/01/2018,,Corner of High
St and Church St
2,Feature Attribute,FEAT002,COLO,BLUE,,
2,Feature Attribute,FEAT002,INDA,,,03/03/2018
2,Feature Attribute,FEAT002,WIDT,,8.2,,
2,Feature,FEAT003,HIGHST,3003,FT1/003,FT1,01/01/2018,,Outside the
school
2,Feature Attribute,FEAT003,COLO,GREY,,,Notes about this Attribute
```

```
2,Feature Attribute,FEAT003,INDA,,,04/03/2018
2,Feature Attribute,FEAT003,WIDT,,6.6,,
1,Document Link,Entity Type,Parent Id,Document Name,Document Notes
2,Document Link,FEATURE,FEAT002,D:\Links\Documentation.txt,Notes about
 this document
```

Inventory and Inventory Attributes

Inventory Item

Confirm modules 0112 and 0195 are required to import Inventory records.

Inventory items can only be imported against a Feature that exists in the same import file. Inventory can be imported while adding a new Feature, updating an existing Feature, or creating a new version of an existing Feature. For details of the treatment of existing Inventory in the latter cases, refer to the description of the Inventory Flag in the Feature section above.

When Inventory is imported to a Feature that has been End Dated (including via a Split or Merge) then the imported Items will be carried forward to any subsequent versions of the Feature. In the case of a 'Full' or 'Full by Inventory Type' import, this will result in Items on those subsequent versions of the Feature being deleted.

Field	Size	Type	Comment
Row Type	-	-	1 for the header row, 2 for data rows
Record Type	-	-	'Inventory Item'
Record Id	50	Character	Mandatory
Parent Id	50	Character	Mandatory - must identify a Feature record in the import file
Customer	4 or 30	Character	
Feature Type	4 or 30	Character	
Start Date		Date Time	If supplied cannot be earlier than Feature Start Date
End Date		Date Time	
Survey Date		Date Time	
Reversed	1	Character	
Start Width	10 (8.2)	Numeric	
End Width	10 (8.2)	Numeric	
Quantity	12 (10.2)	Character	
Link Parent Id	50	Character	Identifies an existing Feature to which this Inventory Item links. See below
Site Classification	4 or 30	Character	Defaults from Feature
XSP	6 or 30	Character	Describes Cross Section Position of inventory item

Field	Size	Type	Comment
Start Node	30	ASCII	Only with Module 4050. If supplied, Start Distance is interpreted as an offset from the identified Node
Start Distance	10 (8.2)	Numeric	
End Node	30	ASCII	Only with Module 4050. If supplied, End Distance is interpreted as an offset from the identified Node
End Distance	10 (8.2)	Numeric	

The Link Parent Id should be the Central Asset Id or Feature Id (case sensitive) of an existing Feature that is live at the Start Date of the Inventory Item. Start Date of Inventory Item cannot be prior to the Inventory Feature Start Date and is defaulted from the parent Feature Start Date if not supplied in the import file. The Feature must be of the appropriate Feature Group otherwise the import will be rejected.

Inventory Attribute

Confirm modules 0112 and 0195 are required to import Inventory Attribute records.

Attribute type code must already exist in Confirm and be associated with the parent record, otherwise the file will be rejected.

Field	Size	Type	Comment
Row Type	-	-	1 for the header row, 2 for data rows
Record Type	-	-	'Inventory Attribute'
Parent Id	50	Character	Mandatory
Attribute Type Code	4	Character	Mandatory
Option	4	Character	
Value	15 (9.6)	Numeric	
Date		DateTime	
Text	2000	Character	
Notes	2000	Character	

Surveys

Survey

Confirm module 4010 is required to import Survey records. Multiple Surveys can be imported from one import file.

Field	Size	Type	Comment
Row Type	-	-	1 for the header row, 2 for data rows
Record Type	-	-	'Survey'
Record Id	50	Character	
Name	30	Character	
External Reference	20	Character	Mandatory - must be unique.
Type	6 or 30	Character	Mandatory.
Version	4	Numeric	If not supplied then Type must uniquely identify a valid Live Survey Type.
Survey Status	1 or 30	Character	'A'/'Accepted into Database' or 'L'/'Loaded into Edit Area' (default).
Notes	2000	Character	

Survey Section

Confirm module 4010 is required to import Survey Section records.

All relevant lookups like Feature Id must already exist in database for all the records to be successfully imported.

Field	Size	Type	Comment
Row Type	-	-	1 for the header row, 2 for data rows
Record Type	-	-	'Survey Section'
Parent Id	50	Character	Mandatory - must identify a Survey record in the import file.
Record Id	50	Character	
Site Code	10	Character	To identify a Feature.
Plot Number	10 (8.2)	Numeric	To identify a Feature.
Feature Id	15	Character	To identify a Feature.
Central Asset Id	20	Character	To identify a Feature.
Start Date		DateTime	Defaults to End Date or today.
End Date		DateTime	Defaults to Start Date or today.
Direction	1 or 7	Character	Reverse (R), Forward (F), Normal (F), N (F).
Action Officer	4 or 30	Character	
Length	8.2	Numeric	
Notes	2000	Character	

• Survey Section will be identified based on the combination of Feature Id and Start Date, or Site Code and Plot Number, or Central Asset Id.
• The Feature must be Live at the Survey Section's Start Date.
• While importing Survey data for existing Section(s), the measured length does not always exactly match the recorded length of a Section. If the Section length is different but within a tolerance (refers to Tolerance mentioned in Survey Type screen for each Survey Type), data in the import file will be stretched/squashed/trim to fit.
• If a Survey has been recorded in the reverse direction to the Section's direction in the database, it will be reversed as part of the import process.
• Surveys can be imported where the Survey Type is configured with Child Observation Types, so that some values are stored in additional columns in a single Observation record.
• Additional Survey Features and Observations can be imported to an existing Survey only with status as 'Loaded into Edit Area'.
• Surveys can be imported to End Dated Features and Survey data is carried forward to all later version(s) of Features created via End Date, Split and Merge.

Survey Observation

Field	Size	Type	Comment
Row Type	-	-	1 for the header row, 2 for data rows
Record Type	-	-	'Survey Observation'
Parent Id	50	Character	Mandatory - must identify a Survey Section record in the import file.
Observation Type	6	Character	
Feature Group	4 or 30	Character	
XSP	6 or 30	Character	Defaults to System Setting.
Start Node	30	Character	Only with module 4050. If supplied, Start Distance is interpreted as an offset from the identified Node.
Start Distance	8.2	Numeric	
End Node	30	Character	Only with module 4050. If supplied, End Distance is interpreted as an offset from the identified Node.
End Distance	8.2	Numeric	
Value	8.4	Numeric	
Option	4	Character	
Recording Type	1	Character	Denotes whether an Observation has been recorded as percentage or value (defaults to V).
Notes	2000	Character	

Asset Valuation Logs

Confirm module 1530 is required to import Asset Valuation Log records via the Import Anything Agent. Importing them via the 'Import Data' utility on the Confirm menu requires either module 1500 or module 1530.

Field	Size	Type	Comment
Row Type	-	-	1 for the header row, 2 for data rows
Record Type	-	-	'Valuation Log'
SITECODE	10	Character	Mandatory unless 'central asset id' or 'feature id' provided
PLOTNUMBER	12(10.2)	Numeric	Mandatory unless 'central asset id' or 'feature id' provided
CENTRAL ASSET ID	20	Character	Mandatory unless 'site-code/plotnumber' or 'feature id' provided
FEATURE ID	15	Character	Mandatory unless 'central asset id' or 'sitecode/plotnumber' provided
VALLOGTIME		DateTime	Optional – defaults to current date/time
LOGEFFECTIVEFROM-DATE		DateTime	Mandatory
LOGGEDBY	10	Character	Optional – defaults to current user
METHOD	4 or 30	Character	Optional – defaults from last Log if present, otherwise from Feature. If neither set then results in an error
REASONCODE	4 or 30	Character	Mandatory
ACTIVEFROMDATE		DateTime	Optional – defaults from last Log if present, otherwise from Feature. If neither set then results in an error
ACTIVETODATE		DateTime	Optional – defaults to calculation based on Active From date and Useful Life (if supplied), otherwise uses value from last Log, otherwise from Feature. Finally, results in error.
USEFULLIFE	8	Numeric	Optional
VALUEQUANTITY	14(12.2)	Numeric	Optional – defaults from last Log if present, otherwise from Feature

Field	Size	Type	Comment
REPLACEUNITCOST	14(10.4)	Numeric	Optional – defaults from last Log if present, otherwise from Feature
REPLACEVALUE	14(12.2)	Numeric	Optional – calculated from quantity and unit cost if not supplied
RESIDUALUNITCOST	14(10.4)	Numeric	Optional – defaults from last Log if present, otherwise from Feature
RESIDUALVALUE	14(12.2)	Numeric	Optional – calculated from quantity and unit cost if not supplied
ASSETEXPEND-VALUE	14(12.2)	Numeric	Optional
CURRENTVALUE	14(12.2)	Numeric	Optional
VALUER	4 or 30	Character	Optional
VALUENOTES	2000	Character	Optional

The Asset Category used for calculations is taken from that of the Feature if it has one, otherwise uses the Feature Type's Asset Category. If neither is set, an error is reported.

Allocated Regimes

Confirm module 0700 is required to import Allocated Regimes.

Field	Size	Type	Comment
Row Type	-	-	1 for the header row, 2 for data rows
Record Type	-	-	'Allocated Regime'
Site Code	10	Character	To identify Feature - See note below
Plot Number	12(10.2)	Numeric	To identify Feature - See note below
Central Asset Id	20	Character	To identify Feature - See note below
Feature Id	15	Character	To identify Feature (with Date Next Due) - See note below
Regime	4 or 30	Character	Mandatory
Cycle	2(2.0)	Numeric	Defaults to 1
Date Next Due		Date	For Cyclic or Repeating Jobs Regimes only
Contract	4 or 30	Character	Mandatory for Repeating Jobs Regimes only
Gang	4 or 30	Character	For Repeating Jobs Regimes only

Field	Size	Type	Comment
Officer	4 or 30	Character	Mandatory for Repeating Jobs Regimes only
Cost Code	15 or 30	Character	For Repeating Jobs Regimes only
Location	2000	Character	For Repeating Jobs Regimes only
Delete	1	Character	Yes (Y) to delete the Allocated Regime. Defaults to No (N)

Note: Either Site Code and Plot Number, Central Asset Id, or Feature Id must be supplied to identify the Feature.

Note: Should a Job already exist for a Repeating Jobs Regime, the Allocated Regime details will be updated, but this will not make any change to the Job. Changes will take effect when the current Job is closed (or cancelled) and the next one is generated.

Sample File

The following sample file updates Feature 35700116/50001 to set the Date Next Due of one existing Allocated Regime and remove an obsolete Allocated Regime. It also allocates an existing Repeating Regime to four Features.

```
1,Allocated Regime,Site Code,Plot Number,Regime,Cycle,Date Next
Due,Contract,Gang,Officer,Delete
2,Allocated Regime,35700116,50001,Existing Regime,,15/08/2019,,,,N
2,Allocated Regime,35700116,50001,Obsolete Regime,,,,,,Y
2,Allocated Regime,35700116,50001,Repeating Jobs Regime,01/08/2019,2019
 Contract,East Area Crew,John Smith,N
2,Allocated Regime,35700116,50002,Repeating Jobs Regime,08/08/2019,2019
 Contract,East Area Crew,John Smith,N
2,Allocated Regime,35700116,50003,Repeating Jobs Regime,15/08/2019,2019
 Contract,East Area Crew,John Smith,N
2,Allocated Regime,35700116,50004,Repeating Jobs Regime,22/08/2019,2019
 Contract,East Area Crew,John Smith,N
```

Jobs and Job Items

Job

Confirm module 0610 is required to import Job records.

All relevant Lookups, plus the Features you are importing Work against, must already exist in Confirm, otherwise the file will be rejected.

Field	Size	Type	Comment
Row Type	-	-	1 for the header row, 2 for data rows
Record Type	-	-	'Job'
Job Id	50	Character	Mandatory

Field	Size	Type	Comment
Site Code	10	Character	To identify Feature - See note below
Plot Number	10 (8.2)	Numeric	To identify Feature - See note below
Central Asset Id	20	Character	To identify Feature - See note below
Feature Id	15	Character	To identify Feature (with Job Entry Date) - See note below
Job Notes	2000	Character	Optional, Will default if not specified
Job Location	2000	Character	
Job Type Code	4	Character	Default to the Default Job Type system setting if not specified. Job will inherit the Defect Type's Job Type if Job is linked to a Defect in the import file.
Cost Code	15	Character	Lookup
Priority Code	4	Character	Mandatory Lookup
Price Factor Code	4	Character	Mandatory Lookup
Customer Reference	20	Character	
Customer Code	4	Character	Mandatory Lookup
Contract Code	6	Character	Lookup
Job Entry Date		DateTime	Mandatory
Job Start Date		DateTime	
Actual Start Date		DateTime	
Job Complete Date		DateTime	
Actual Comp Date		DateTime	
Liability Date		DateTime	
Job Easting	10 (8.2)	Numeric	
Job Northing	10 (8.2)	Numeric	
Job Altitude	10 (8.2)	Numeric	
External System	8	Numeric	Lookup
External Order Reference	50	Character	
External Job Reference	50	Character	
Survey Obs Start	8 (6.2)	Numeric	
Survey Obs End	8 (6.2)	Numeric	
XSP Code	6	Character	Lookup
Part Payment Flag	1	Character	"Y" or "N". If not specified then will default to the system setting value or "N"

Field	Size	Type	Comment
Status Code	4	Character	Mandatory Lookup
Login Name	10	Character	Mandatory Lookup
Allocated Officer	4	Character	Lookup
Log Effective Date		DateTime	Defaults to current date if not supplied
Follow Up Code	4	Character	Lookup
Follow Up Date		DateTime	
Log Text	2000	Character	

Note: Either Site Code and Plot Number, Central Asset Id, or Feature Id must be supplied to identify the Feature.

Job Id - This must uniquely identify the job record within the file.

Job Item

Confirm module 0610 is required to import Job records.

All relevant Lookups must already exist in Confirm, otherwise the file will be rejected.

Field	Size	Type	Comment
Row Type	-	-	1 for the header row, 2 for data rows
Record Type	-	-	'Job Item'
Job Id	50	Character	Mandatory
Job Item Number	4 (4.0)	Numeric	Mandatory must be unique. Usually incremented in tens. 9999 is reserved
SOR Item Code	8	Character	Mandatory Lookup
Cost Code	15	Character	Mandatory Lookup
Job Item Quantity	10 (8.2)	Numeric	Defaults to 0
Job Item Notes	2000	Character	Will default if not specified
Job Item Width	8 (6.2)	Numeric	Defaults to 0
Job Item Length	8 (6.2)	Numeric	Defaults to 0
Job Item Depth	8 (6.2)	Numeric	Defaults to 0

Job Id - This must equate to the job id on a Job record.

Sample File

The following sample file creates two new Jobs, with 2 and 4 Job Items respectively.

```
1,job,record id,site code,plot number,priority
2,job,1,DENPLAY,2.00,1
```

```
2,job,2,CENPARK,100.00,3
9,job,2
1,job item,parent id,sor item code,quantity
2,job item,1,1001,100.00
2,job item,1,1002,50.00
2,job item,2,1001,200.00
2,job item,2,1002,80.00
2,job item,2,1003,19.00
2,job item,2,1004,45.00
9,job item,6
```

Inspection Features and Conditions

Inspection Feature

Confirm module 0610 is required to import Inspection Feature records.

Note that several Inspection Features may be imported in a single file for the same Feature, provided the combination of Feature, Inspection Route and Inspection Batch Name is unique. This allows the entire inspection history of a Feature to be imported in a single file.

Field	Size	Type	Comment
Row Type	-	-	1 for the header row, 2 for data rows
Record Type	-	-	'Inspection Feature'
Record Id	50	Character	Mandatory
Parent Id	50	Character	Mandatory - unless Feature Id or both Site Code and Plot Number specified. This must correspond to the Record Id of a Feature record present in the import file
Site Code	10	Character	Mandatory - unless Parent Id or Feature Id specified
Plot Number	10 (8.2)	Numeric	Mandatory - unless Parent Id or Feature Id specified
Feature Id	15	Character	Mandatory - unless Parent Id or both Site Code and Plot Number specified
Officer Code	4	Character	Mandatory Lookup
Inspection Route Code	4	Character	
Inspection Batch Name	40	Character	
Inspection Date		DateTime	

Inspection Batch Number:

- A new Inspection Batch will be created for every combination of Inspection Route Code, Inspection Batch Name and Officer for which Inspection Features are being imported.
- If no Inspection Route Code is specified, the Adhoc Route will be set as the Route on the Inspection Batch.
- If no Inspection Batch Name is specified, the Inspection Route Name will be used. This means that if no Inspection Route Code and no Inspection Route Name are specified, the Inspection Batch Name will be set to the Adhoc Route Name.
- The Inspection Batch created, will immediately be set to be complete.
- The Inspection Batch creation date is set to the Inspection Batch's earliest Inspection Feature Date.
- The Inspection Batch completion date is set to the Inspection Batch's latest Inspection Feature Date.

Inspection Condition

Confirm module 0610 is required to import Inspection Feature records.

Field	Size	Type	Comment
Row Type	-	-	1 for the header row, 2 for data rows
Record Type	-	-	'Inspection Condition'
Parent Id	50	Character	Mandatory. Must uniquely identify an Inspection Feature
Observation Type	6	Character	Mandatory Lookup
Grade	4	Character	
Notes	2000	Character	
Score	12 (8.4)	Numeric	

If the Observation Type is a Pick List then a Grade must be supplied. A Score may also be supplied provided it is within the valid range for the Grade.

If the Observation Type is a Numerical Value then a Score must be supplied, and the Grade will be automatically derived from the Score.

Note: Feature Survey Date and Feature Conditions will only be updated, when Inspection Date is later than the Survey Date.

Defects and Defect Attributes

Defect

Confirm module 0610 is required to import Defect records.

All relevant Lookups must already exist in Confirm, otherwise the file will be rejected

Field	Size	Type	Comment
Row Type	-	-	1 for the header row, 2 for data rows
Record Type	-	-	'Defect'

Field	Size	Type	Comment
Record Id	50	Character	Optional. Unique identifier for this defect record id must be present if importing defect attributes or document links.
Site Code	10	Character	To identify Feature - See note below
Plot Number	10 (8.2)	Numeric	To identify Feature - See note below
Central Asset Id	20	Character	To identify Feature - See note below
Feature Id	15	Character	To identify Feature (with Defect Date) - See note below
Defect Date		DateTime	Mandatory
Target Date		DateTime	
Defect Description	2000	Character	
Defect Location	2000	Character	
Customer Reference	20	Character	
Estimated Cost	14 (12.2)	Numeric	
Officer Code	4	Character	Mandatory
Observation Type	6 or 30	Character	
Defect Type	4	Character	Mandatory
Defect Notes	2000	Character	Will default if not specified
Defect Easting	10 (8.2)	Numeric	Defaults to 0
Defect Northing	10 (8.2)	Numeric	Defaults to 0
Defect Altitude	10 (8.2)	Numeric	Defaults to 0
Defect Status Flag	1	Character	Mandatory
Organise Code	8	Character	
Survey Obs Start	8 (6.2)	Numeric	
Survey Obs End	8 (6.2)	Numeric	
Survey Obs Value	12 (8.4)	Numeric	
XSP Code	6	Character	
Job ID	50	Character	If supplied the Defect will be linked to the specified Job, which must also exist in the file.
Priority Code	4	Character	Intended for when importing Defects without Jobs and therefore Job Statuses are not affected by the imported Priority, if a Job ID is supplied.

Note: Either Site Code and Plot Number, Central Asset Id, or Feature Id must be supplied to identify the Feature.

Inspection Batch Number -

- If Defects are being imported without Inspection Features, then a completed Inspection Batch with associated Inspection Features will be created for every Officer for whom Defects are being imported.
- Where a number of Defects for the same Officer are being imported, the Inspection Batch creation date will be updated and set to the earliest Defect date and its Completion date will be set to the latest Defect date.

Defect Attribute

Confirm modules 0510 and 0610 are required to import Defect Attribute records.

Attribute type code must already exist in Confirm and the parent Id must be associated with the parent defect record, otherwise the file will be rejected.

Field	Size	Type	Comment
Row Type	-	-	1 for the header row, 2 for data rows
Record Type	-	-	'Defect Attribute'
Parent Id	50	Character	Mandatory. Uniquely identifies the parent Defect record.
Type Code	4	Character	Mandatory
Option	4	Character	
Value	12 (10.2)	Numeric	
Date		DateTime	
Text	2000	Character	

Defect Updates

Defect Update

Confirm module 0500 is required to import Defect Update records.

Defect Update can be used to link existing Defects to existing Jobs, in this scenario any Defect Status present will not be used.

Defect Update can also be used to update the Status of an existing Defect to "No Actioned Required" without linking it to a Job.

Field	Size	Type	Comment
Row Type	-	-	1 for the header row, 2 for data rows
Record Type	-	-	'Defect Update'
Defect Number	8 (8.0)	Numeric	Mandatory. Identifier for the Defect to be updated.

Field	Size	Type	Comment
Defect Notes	2000	Character	Optional.
Defect Status	1	Character	Optional. Updates the Status. "Y" sets the status to 'No Action Required' and "N" sets it to 'Action Required'
Job Number	8 (8.0)	Numeric	Optional. Supplying this field will link the Defect to the Job specified. If this is supplied any Defect Status Flag will be ignored for the updated.

Note: If a status is supplied together with a link to a Job the imported status will be ignored and a warning is displayed. The status will be set according to the rules.

Sample File

The following sample file links a Defect (number 1005) to an existing Job, at the same time marking 3 other Defects as 'No Action Required' since they have been found to no longer be present.

```
1,Defect Update,Defect Number,Defect Status,Job Number,Defect Notes
2,Defect Update,1005,,2007,Linking Defect 1005 to Job 2007
2,Defect Update,1006,Y,,Historical Defect - no longer observed
2,Defect Update,1007,Y,,Historical Defect - no longer observed
2,Defect Update,1008,Y,,Historical Defect - no longer observed
```

Inspection Routes

Inspection Route

Confirm module 0500 is required to import Inspection Route records.

Field	Size	Type	Comment
Row Type	-	-	1 for the header row, 2 for data rows
Record Type	-	-	'Inspection Route'
Record Id	50	Character	Mandatory
Code	4	Character	Mandatory
Name	30	Character	Mandatory for a new Inspection Route
Work Group	4 or 30	Character	Defaults to User's Work Group
Inspection Type	4 or 30	Character	Mandatory for a new Inspection Route

Field	Size	Type	Comment
Inspection Mode	1 or 7	Character	Visual (V) or Machine (M). Defaults to Visual
Notes	2000	Character	
Actioned Works Incomplete	1	Character	Defaults to Y. Visual Routes only

Note: Inspection Mode cannot be changed for existing Routes.

If the combination of Code and Work Group identifies an existing Inspection Route, then a warning will be shown and that Inspection Route will be updated rather than a new one being created.

Inspection Route Feature

Confirm module 0500 is required to import Inspection Route Feature records.

Field	Size	Type	Comment
Row Type	-	-	1 for the header row, 2 for data rows
Record Type	-	-	'Inspection Route Feature'
Parent Id	50	Character	Mandatory. Uniquely identifies the parent Inspection Route record
Site Code	10	Character	To identify Feature
Plot Number	10 (8.2)	Numeric	To identify Feature
Feature Id	15	Character	To identify Feature
Central Asset Id	20	Character	To identify Feature
Order	8 (6.2)	Numeric	
Next Inspection Due Date		Date	
Notes	2000	Character	
XSP	6 or 30	Character	Machine Routes only
Start Distance	10 (8.2)	Numeric	Machine Routes only
End Distance	10 (8.2)	Numeric	Machine Routes only
Start Label	50	Character	Machine Routes only
End Label	50	Character	Machine Routes only
Delete	1	Character	Yes (Y) to delete the Feature. Defaults to No (N)

Sample File

The following sample file creates a new Inspection Route containing 3 Features, at the same time removing those Features from an existing Inspection Route.

```
1,Inspection Route,Record Id,Code,Name,Work Group,Inspection Type,Notes
2,Inspection Route,NewRoute,IR06,New Route,ALL,TYPE,New Inspection
Route
2,Inspection Route,OldRoute,IR02,Old Route,ALL,TYPE,Updated to remove
 3 Features
1,Inspection Route Feature,Parent Id,Central Asset Id,Order,Delete,Notes
2,Inspection Route Feature,NewRoute,00010023,10,N
2,Inspection Route Feature,NewRoute,00010026,20,N
2,Inspection Route Feature,NewRoute,00010027,30,N
2,Inspection Route Feature,OldRoute,00010023,,Y
2,Inspection Route Feature,OldRoute,00010026,,Y
2,Inspection Route Feature,OldRoute,00010027,,Y
```

Monitoring Item

Confirm module 1110 is required to import Monitoring Item records.

All relevant Lookups, plus the Order information, must already exist in Confirm, otherwise the file will be rejected.

Field	Size	Type	Comment
Row Type	-	-	1 for the header row, 2 for data rows
Record Type	-	-	'Monitoring Item'
Contract Code	6	Character	Mandatory if no Job Number or Feature ID
Batch Number	8 (8.0)	Numeric	Mandatory if no Job Number or Feature ID
Item Number	6 (6.0)	Numeric	Mandatory if no Job Number or Feature ID
Notes	2000	Character	
Feature ID	15	Character	Mandatory if no Job Number or Monitoring Item
Job Number	8 (8.0)	Numeric	Mandatory if no Feature ID or Monitoring Item
Inspection Time		DateTime	Will default to date of import if not specified.
Failure Code	4	Character	
Failure Notes	2000	Character	

Failure Code -If the Failure Code is populated, a failure item is raised

Sample File

The following sample file creates two Monitoring Items.

```
1,monitoring item,contract code,batch number,item number,inspection
time,failure code,failure notes
2,monitoring item,C1,150,50,24/11/2003 11:29,FL1,Sub-standard reinstate-
ment at intersection with Delph Street
2,monitoring item,C1,125,110,24/11/2003 12:29 2,monitoring
item,C1,155,10,24/11/2003 14:09,FL3
9,monitoring item,2
```

Traffic Survey

Traffic Survey

Confirm module 4500 is required to import Traffic Count Survey records.

All relevant lookups like Survey Type must already exist in the database for all the records to be successfully imported.

Multiple Traffic Count Surveys can be imported from one import file.

Field	Size	Type	Comment
Row Type	-	-	1 for the header row, 2 for data rows
Record Type	-	-	'Traffic Survey'
Record Id	50	Character	Mandatory. Unique identifier for this Traffic Count Survey record id, is used when importing Traffic Count Survey Features and Traffic Count Data.
Survey Name	30	Character	Mandatory.
Survey Type Code	6	Character	Mandatory.
Survey Notes	2000	Character	Optional.

The Survey Type must have the following details:

- Source Type – Traffic Count.
- Attribute Type – Must be blank.
- Dead tick box is unticked.

Survey Feature

Confirm module 4500 is required to import Traffic Count Survey Feature records.

All relevant lookups like Feature Id must already exist in database for all the records to be successfully imported.

Field	Size	Type	Comment
Row Type	-	-	1 for the header row, 2 for data rows
Record Type	-	-	'Survey Feature'
Parent Id	50	Character	Mandatory – Uniquely identifies a Traffic Count Survey.
Record Id	50	Character	Optional – Uniquely identifies a Traffic Count Survey Feature. Must be supplied when importing Traffic Count Data.
Feature Id	15	Character	Mandatory – Unless Site Code and Plot Number are specified.
Site Code	10	Character	Mandatory - Unless Feature Id is specified.
Plot Number	10 (8.2)	Numeric	Mandatory - Unless Feature Id is specified.
Start Date		DateTime	Mandatory. The Start Date of the Survey. Where Feature Id is specified this Date is also used to identify the Feature.
End Date		DateTime	Mandatory. The End Date of the Survey.

- Survey Feature will be identified based on the combination of Feature Id and Start Date, or Site Code and Plot Number.
- The Feature must be Live at the Survey Feature's Start Date.
- A Traffic Count Survey Feature cannot be imported if there is an existing Traffic Count Survey which has the same Survey Type and the Date range of the Surveys overlap.
- A warning will be displayed if a Traffic Count Survey Feature exists with a different Survey Type and the Date range of the Surveys overlap.

Survey Count

Confirm module 4500 is required to import Traffic Count Data records.

The Time Slot lookup must already exist in database for all the records to be successfully imported.

Field	Size	Type	Comment
Row Type	-	-	1 for the header row, 2 for data rows
Record Type	-	-	'Survey Count'
Parent Id	50	Character	Mandatory – Uniquely identifies a Traffic Count Survey Feature.
Time Slot Name	40	Character	Mandatory.

Field	Size	Type	Comment
Date		DateTime	Mandatory.
Attribute Value Code	4	Character	Mandatory if Survey Type of Survey does have an Attribute Type specified.
Value	12(8.4)	Numeric	Optional.
Notes	2000	Character	Optional.

- The Date of the Traffic Count Data must be within the Date range of the related Traffic Count Survey Feature.
- The Time Slot Name is matched against the Time Slot Level which is identified by the Survey Type Code on the Traffic Count Survey.
- The Time Slot Name must not be marked as Dead.
- Attribute Value Code is required if the Survey's Survey Type has an Attribute Type specified. If Attribute Value Code is supplied for a Survey whose Survey Type does not have an Attribute Type specified, then the field is ignored.
- Attribute Value Code is matched against the Attribute Values for the Survey Type's Attribute Type.

Document Links

Document Links can be imported on Features, Inventory Items, Surveys, Defects and Jobs. They can only only be imported on records supplied in the same import file.

Field	Size	Type	Comment
Row Type	-	-	1 for the header row, 2 for data rows
Record Type	-	-	'Document Link'
Entity Type	10	Character	Mandatory. Must be set to one of FEATURE, INVITEM, SURVEY, DEFECT, or JOB.
Parent Id	50	Character	Mandatory. Uniquely identifies the parent record in the file using its Record Id, except in the case of JOB where the Job Id is used.
Document Name	1000	Character	Mandatory. The full document link file path. No validation is applied to this path.
Document Notes	2000	Character	
Document Date		Date	Set to current date and time if not supplied.

Sample File

The following sample file adds a number of Document Links to three Features.

```
1,Feature,Record Id,Site Code,Feature Id,Feature Type
1,Document Link,Entity Type,Parent Id,Document Name,Document Notes
2,Feature,FEAT001,HIGHST,FT1/001,FT1
2,Feature,FEAT002,HIGHST,FT1/002,FT1
2,Feature,FEAT003,HIGHST,FT1/003,FT1
2,Document Link,FEATURE,FEAT001,D:\Links\Asset Information FT1/001.txt,
2,Document Link,FEATURE,FEAT001,D:\Links\Notes.txt,Notes about this
Feature
2,Document Link,FEATURE,FEAT001,D:\Links\Image003.jpg,Initial photo
2,Document Link,FEATURE,FEAT001,D:\Links\Image004.jpg,Recent photo
2,Document Link,FEATURE,FEAT002,D:\Links\Image145.jpg
2,Document Link,FEATURE,FEAT002,D:\Links\Image166.jpg
2,Document Link,FEATURE,FEAT003,D:\Links\Image883.jpg
```

File Format

Composite Delimited Files

Each row contains several delimited items. The first is a number (1, 2 or 9) identifying the row type and the second is the name of the Record Type. The file can contain any or all of the Record Types mentioned in the Record Type Descriptions section of this document. The Record Type name supplied in the file should match the section name in the Record Type Descriptions section (the match is not case sensitive).

The different row types are described here.

The Header Definition row (type 1) contains the field names of all data being supplied, in the order in which it is supplied. There should be one and only one header for each Record Type. The field names should match those defined in the Record Type Descriptions section (the match is not case sensitive).

A Data row (type 2) contains the actual values to go into the fields. The data should be in the order defined by the header record. If the file contains any data before the header record, an error will be reported.

The Record Count row (type 9) is optional. If supplied, this will contain a single numeric item, which is checked against the number of rows of this Record Type in the file. If there is a mismatch, it is assumed that the file is incomplete or otherwise invalid, and an error is reported. There should be no more than one record count for each Record Type.

An example of a Composite Delimited File is shown below:

```
1,monitoring item,contract code,batch number,item number,inspection
time,failure code,failure notes
2,monitoring item,C1,150,50,24/11/2003 11:29,FL1,Sub-standard reinstate-
ment at intersection with Delph Street
2,monitoring item,C1,125,110,24/11/2003 12:29 2,monitoring
item,C1,155,10,24/11/2003 14:09,FL3
9,monitoring item,2
1,job,record id,site code,plot number,priority
2,job,1,DENPLAY,2.00,1
2,job,2,CENPARK,100.00,3
9,job,2
1,job item,parent id,sor item code,quantity
2,job item,1,1001,100.00
```

```
2,job item,1,1002,50.00
2,job item,2,1001,200.00
2,job item,2,1002,80.00
2,job item,2,1003,19.00
2,job item,2,1004,45.00
9,job item,6
```

Key Fields

Key fields must be unique where specified or the whole file will be rejected and an error generated. Generally alpha key fields will be capitalised.

Lookup Fields

Where fields in a file being imported reference the database as lookups, the appropriate lookup record must exist to maintain database integrity. These can usually be supplied as a code or as a name (the tables below will say “4 or 30” where something can be supplied as a 4 character code or a 30 character name).

Where a lookup is referenced which does not already exist an error will be reported and the file rejected.

Field Details

All fields are optional unless stated otherwise.

- Numeric fields are specified in the format 6 (4.2), meaning 6 digits in total, 4 to the left of the decimal point, 2 digits to the right. e.g. 1234.56.
- To prevent problems when files are imported on a different system to the one where the files were prepared, fields specified as date should be supplied in the format DDMMYYYY or DD/MM/YYYY, except when importing XML files.
- All fields specified as time should be supplied in the format HH:MM, e.g. 18:30.
- The field lengths need not be as shown in the definition tables but any characters in excess of those specified will be truncated. A warning will be given if this happens.

Importing Related Records

There is no hierarchy in the file structure; where related records are to be imported each child row contains the data identifying its parent. This is done via temporary Record Id, Parent Id and Feature Id fields, which are used during the import process but not saved to the database.

If a record has children, a unique Record Id should be supplied for it. This can be any text up to 50 characters. Each child record should have a Parent Id that must exactly match the Record Id of its parent in the same file.

Document Links

If a Document Links Directory has been specified for a particular Import Transformation, then the file being imported will be copied to this directory and attached as a Document Link to any Inspection Batch, Defect or Job created by the import. The Record ID field for the Defect import is mandatory when creating document links.