



Location Intelligence
Infrastructure Asset Management

Confirm[®]

Street Works Connector Schema
v20.20f.AM

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Specifications

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

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Street Works Connector XML Schema

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Street Works Connector XML Schema

Introduction

This document describes the XML schema for the Street Works Connector that allows Confirm to be interfaced with a Works Management System.

The Street Works Connector has two basic functions:

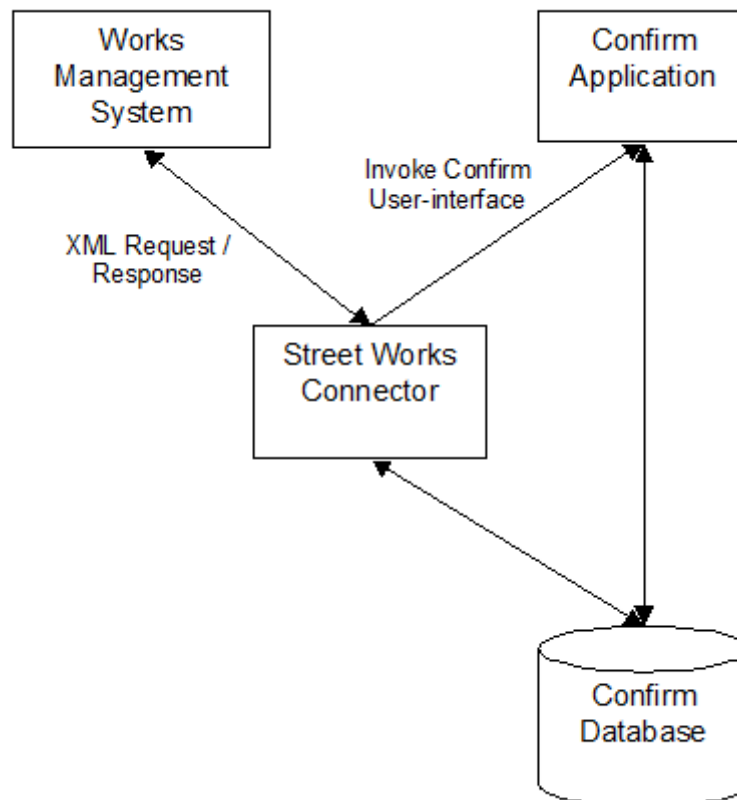
- Data transfer
- Opening Confirm-Street Works forms

The Works Management System will initiate these two functions.

Reference Documents

- Confirm AM Generic Connector Interfacing Specification (AKS-50-129)

Context Diagram



Methods

This section describes the XML schema for messages to be sent and received between the Works Management System and the Confirm Connector.

METHOD SUMMARY

| Request | Response |
|--------------------------|----------------------------------|
| OpenNewWorks | OpenNewWorksResponse |
| OpenWorks | OpenWorksResponse |
| CreateNewWorks | CreateNewWorksResponse |
| OpenJob | OpenJobResponse |
| GetWorksByInternalRef | GetWorksByInternalRefResponse |
| GetWorksHistory | GetWorksHistoryResponse |
| GetWorksHistoryByDate | GetWorksHistoryByDateResponse |
| UpdateWorks | UpdateWorksResponse |
| RevisedWorksPlannedDates | RevisedWorksPlannedDatesResponse |
| StartWorks | StartWorksResponse |
| RevisedWorksDuration | RevisedWorksDurationResponse |
| CompleteWorks | CompleteWorksResponse |
| CancelWorks | CancelWorksResponse |
| WorksInformationUpdate | WorksInformationUpdateResponse |

ETON 3 UPDATE METHODS

Any Connector methods that update fields for EToN 3 will only work in certain modes. This means that invalid modes can be returned for options that would be valid on EToN 4 Works. It is also the case that fields that do not apply to EToN 3 will be ignored and if they are required under the database schema they will use default values not any overridden values supplied.

The following methods are not supported for EToN 3:

- RevisedWorksPlannedDates
- StartWorks
- RevisedWorksDuration
- CompleteWorks
- CancelWorks
- WorksInformationUpdate

UpdateWorks will only support the SendIfValid mode.

GENERATION OF WORKS REFERENCES

Several methods generate new Works References under certain scenarios.

Works References will be generated in the following manner:

If "WORKS_REF" is supplied as the original Works Reference, the subsequent Works References will be as follows:

- "WORKS_REF/1"
- "WORKS_REF/2"
- ...

If "WORKS_REF" is supplied and can be matched to a Works that is cancelled, then a search will be performed to find the current version by matching "WORKS_REF" and then selecting the Works with highest sequence number that is not cancelled.

If generation of a new Reference results in the length being > 19 characters, a fault will be returned.

SCHEMA

All methods that update Works have a request parameter for the mode of operation as follows:

| Element | Type | No. of | Max Size | Notes |
|---------|--------|--------|----------|--|
| Mode | String | 0-1 | 50 | "Validate" – validation only, no notices are created. Returns an error for EToN 3. "Save" – Saves notices but does not send them "Send" – Saves the Notice and sends it. Returns an error for EToN 3. "SendIfValid" – Will send the works whenever possible, however if the works can be saved they will be. |

Correspondingly, there is a return parameter as follows:

| Element | Type | No. of | Max Size | Notes |
|--------------|--------|--------|----------|--|
| UpdateStatus | String | 1 | 200 | The response is one of the following enumerated types Success - The Connector is able to supply sufficient data to the database to either create a valid Works or update the works. Applies when Mode is Send or Save. Sent – Works were sent. Applies when Mode is SendIfValid. Saved – Works were saved. Ap- |

| Element | Type | No. of | Max Size | Notes |
|---------|------|--------|----------|---|
| | | | | <p>plies when Mode is SendIfValid. Warnings and Agreements will be populated to explain why the works could not be sent. ValidToSend – The supplied data can be used to send a valid notice. Only applies when Validate is supplied. Val-idToSave - The supplied data can be used to save a notice. Val-idToSend is returned whenever that is also true. Applies when Val-idate is supplied. When Mode is Send this response indicates that the data supplied is Val-idToSave but not to send and that the Works was not saved.</p> |

The return parameter may have additional options for certain methods.

Note in the following tables, Types shown in bold are sub-elements. The contents of the sub-elements are described subsequently or they can be found in the Common Elements section at the end of this document.

If mandatory data is not supplied a <Fault> element will be returned using existing functionality.

OPENNEWWORKS - REQUEST AND RESPONSE

The purpose of this request is to open the Street Works Notice screen in Confirm and pre-populate it with the supplied information.

If Confirm is already running the Street Works Notice screen will be activated in the existing session.

If Confirm is not running the Connector will start Confirm and the user will need to provide Confirm login information before the Street Works Notice screen is displayed. Alternatively, the Connector can be configured to automatically log into Confirm using the same user credentials that were supplied to the Connector.

OpenNewWorks

| Element | Type | No. of | Max Size | Screen | Field | Notes |
|------------------------|----------|--------|----------|---------------------|------------|---|
| NoticeFromOrgCode | String | 0-1 | 8 | Street Works Notice | From | First part |
| WorksReference | String | 0-1 | 19 | Street Works Notice | Works Ref. | Second part |
| InternalReference | String | 0-1 | 20 | Street Works Notice | Int. Ref | |
| EstimatedStartDateTime | DateTime | 0-1 | - | Street Works Notice | Start | If not provided will default to the Notification Period for the Notice Type using the same rules as the Street Works Notice screen. The Notice Type used is a System Setting.Field cannot be supplied for immediate works |
| ActualStartDateTime | DateTime | 0-1 | - | Street Works Notice | Start | Field cannot be supplied for planned works. |
| EstimatedEndTime | DateTime | 0-1 | - | Street Works Notice | Est. End | |
| AgentContactName | String | 0-1 | 50 | Notice Agent | Name | |
| AgentContactAddress | String | 0-1 | 200 | Notice Agent | Address | This field contains all different address related to the agent. |
| AgentContactTelephone | String | 0-1 | 20 | Notice Agent | Phone | |
| AgentContactPostcode | String | 0-1 | 8 | Notice Agent | Post Code | |
| CountyName | String | 0-1 | 35 | Street Works Notice | Site | This is used to restrict the Street pick list in Confirm and is |

| Element | Type | No. of | Max Size | Screen | Field | Notes |
|-------------------|---------|--------|----------|---------------------|------------------------------|--|
| LocationText | String | 0-1 | 500 | Street Works Notice | Locn. | not actually stored. |
| WorksX | Decimal | 0-1 | 12(10,2) | Street Works Notice | Easting | |
| WorksY | Decimal | 0-1 | 12(10,2) | Street Works Notice | Northing | |
| ExternalReference | String | 0-1 | 20 | Street Works Notice | Ext. Ref / Project Reference | For EToN 4 and above the field is called 'Project Reference' |
| SiteCode | String | 0-1 | 10 | Street Works Notice | Site Code | |

OpenNewWorksResponse

If the Connector is able to invoke the Confirm application then this response will be returned as an empty element. A fault will be returned if the Confirm application cannot be launched. Control will return to the calling function as soon as Confirm has been invoked (i.e. there will be no delay while the user logs in).

Other validation checks are carried out by Confirm when it is invoked. If these fail then Confirm will display an appropriate message to the user.

OPENWORKS - REQUEST AND RESPONSE

This request opens an existing Street Works in Confirm based on the organisation code and works reference fields. A specific version may be selected but this field is optional and if it is absent the latest version of the Works is opened.

Note: VersionNumber is only used in EToN 3 or below Works otherwise the latest version of the Works is always opened.

OpenWorks

| Element | Type | No. of | Max Size | Screen | Field | Notes |
|-------------------|--------|--------|----------|---------------------|-------|---|
| NoticeFromOrgCode | String | 0-1 | 8 | Street Works Notice | From | First part. One of NoticeFromOrgCode and WorksPrefix is required to uniquely identify the existing works. |

| Element | Type | No. of | Max Size | Screen | Field | Notes |
|----------------|---------|--------|----------|---------------------|------------|--|
| WorksPrefix | String | 0-1 | 5 | Organisation | Dft Ref 2 | One of NoticeFromOrgCode and WorksPrefix is required to uniquely identify the existing works. |
| WorksReference | String | 1 | 19 | Street Works Notice | Works Ref. | Second part |
| VersionNumber | Decimal | 0-1 | 4(4,0) | Street Works Notice | Version | Notice version not site version |
| MinimalMode | Boolean | 0-1 | - | | | Open Confirm in minimal mode, see (AKS-50-129 4.2.2 for details). The Street Works form is opened with New and Find disabled. Defaults to false if not supplied. |

Note: The OpenRecord operation (See Confirm AM CRM Connector XML Schema) can also be used for this and it will also find a requested record or records.

OpenWorksResponse

If the Connector is able to invoke the Confirm application then this response will be returned as an empty element. A fault will be returned if the Confirm application cannot be launched. Control will return to the calling function as soon as Confirm has been invoked (i.e. there will be no delay while the user logs in).

Confirm itself will display an error message if the specified Works cannot be found in Confirm.

Other validation checks are carried out by Confirm when it is invoked. If these fail then Confirm will display an appropriate message to the user.

CREATENEWORKS - REQUEST AND RESPONSE

The purpose of this request is to create a Street Work, writing the data to the database without the need to open Confirm. The CreateNewWorks request generates the first version of a Street Works record in the Confirm database. Some mandatory fields are set from system settings but others must be supplied in the request. If a Works is version one and has not been exported it may be overwritten by a CreateNewWorks request.

When a request is processed the Connector searches the database by WorksReference, restricting the search to Street Works for Organisations that are initiators. If no record is found a new Street Works record is created and if only one is found it will be updated. Should more than one record be found for initiator Organisations where the Works Reference is the one supplied in the request, no update will be applied and this will be indicated in the response.

When the Connector overwrites a Works the existing Works may have more than one Site record, however the update will only make changes to data for the first Site record. If the Works has Inspections, Programmed Inspections, Comments or Tasks the Works will not be overwritten.

CreateNewWorks

| Element | Type | No. of | Max Size | Screen | Field | Notes |
|---------------------|--------|--------|----------|---------------------|------------------------------|--|
| NoticeFromOrgCode | String | 1 | 8 | Street Works Notice | From (2nd field) | |
| WorksReference | String | 1 | 19 | Street Works Notice | Works Ref. (2nd field) | |
| InternalReference | String | 0-1 | 20 | Street Works Notice | Int. Ref | |
| ExternalReference | String | 0-1 | 20 | Street Works Notice | Ext. Ref / Project Reference | For EToN 4 and above the field is called 'Project Reference' |
| ActivityDescription | String | 1 | 500 | Street Works Notice | Desc. | |
| ActivityTypeCode | String | 0-1 | 4 | Street Works Notice | Work Type | Will default to a System Setting if not provided. The Street Works Notice Type will default to the first notice for that Work Type. The Confirm code is used. For EToN 4 Works this method will default based on Works Duration if not provided. The Street Works Notice Type will default to the first notice for that Work Type. For |

| Element | Type | No. of | Max Size | Screen | Field | Notes |
|-----------------------|----------|--------|----------|---------------------|------------|---|
| UrgencyFlag | String | 0-1 | 50 | Street Works Notice | Work Type | <p>EToN 3 the system setting will be used. The Confirm code is used.</p> <p>If not supplied works are presumed to be planned works, if supplied Activity-TypeCode is not permitted "Urgent" – uses first Urgent Street Work Type and the first Street Works Notice Type for the Work Type. "Emergency" – uses first Emergency Street Work Type and the first Street Works Notice Type for the Work Type</p> |
| InspectionUnits | Decimal | 0-1 | 4(4,0) | Street Works Notice | Insp Units | <p>Defaults to 1. The Inspection Units Type will always be "Estimated"</p> |
| Actual-StartDate-Time | DateTime | 0-1 | - | Street Works Notice | Start | <p>Defaults to the date the file was processed. This field is mandatory to send the initial notice for immediate works. Field cannot be supplied for</p> |

| Element | Type | No. of | Max Size | Screen | Field | Notes |
|--------------------------|----------|--------|----------|---------------------|------------------|--|
| Estimated-StartDate-Time | DateTime | 0-1 | - | Street Works Notice | Start | planned works. Defaults to the date the file was processed. This field is mandatory to send the Notice for planned works. Field cannot be supplied for immediate works. |
| EstimatedEndDate-Time | DateTime | 0-1 | - | Street Works Notice | Est. End | Defaults to the date the file was processed. This field is mandatory to send the Notice. |
| AgentContactName | String | 0-1 | 50 | Notice Agent | Name | Defaults from Organisation |
| AgentContactAddress | String | 0-1 | 2000 | Notice Agent | Address | Defaults from Organisation |
| AgentContactTelephone | String | 0-1 | 20 | Notice Agent | Phone | Defaults from Organisation |
| AgentContactPostcode | String | 0-1 | 8 | Notice Agent | Post Code | Defaults from Organisation |
| SiteCode | String | 0-1 | 10 | Street Works Notice | Site (2nd field) | Defaults to the system setting Provisional Street code if not supplied or invalid. |
| LocationText | String | 1 | 500 | Street Works Notice | Locn. | |
| LocationPost-Code | String | 0-1 | 8 | Street Works Notice | Post Code | |
| WorksX | Decimal | 0-1 | 12(10,2) | Street Works Notice | Easting | For EToN 4 WorksX and WorksY are treated as a point. |

| Element | Type | No. of | Max Size | Screen | Field | Notes |
|-------------------|--------------------|--------|----------|---------------------|-----------------|--|
| WorksY | Decimal | 0-1 | 12(10,2) | Street Works Notice | Northing | For EToN 4 WorksX and WorksY are treated as a point. |
| Coordinates | Coordinates | 0-1 | - | | | For EToN 4 either WorksX and WorksY or a Coordinates structure must be provided. |
| Cancelled-Date | DateTime | 0-1 | - | Street Works Notice | Cancelled | If this is supplied, and no notices have been sent, then the Works will be flagged as Abandoned in Confirm. |
| WorksNotes | String | 0-1 | 2000 | Street Works Notice | Notes | |
| ChargeCategory | String | 0-1 | 4 | Street Works Notice | Excavation Type | If supplied Excavation-Needed cannot be supplied. The Confirm code is used. See Excavation-Needed for default value. |
| Excavation-Needed | Boolean | 0-1 | - | Street Works Notice | Excavation Type | If supplied ChargeCategory cannot be supplied. Defaults Excavation Type to the appropriate system setting. If not supplied and ChargeCategory is also not supplied, behaves as if true was supplied. |
| PhaseType | String | 0-1 | 4 | Street Works Notice | Phase Type | 1 - Asset Activity, 2 - |

| Element | Type | No. of | Max Size | Screen | Field | Notes |
|---------------------|-------------------|--------|----------|---------------------|----------------------|--|
| | | | | | | Interim To Permanent,3 - Remedial Defaults to Asset Activity. |
| PhaseCount | Decimal | 0-1 | 4(4,0) | Street Works Notice | No of Phases | Defaults to 1. |
| ProjectDescription | String | 0-1 | 2000 | Street Works Notice | Project Desc. | |
| WorkingHours | Boolean | 0-1 | - | Street Works Notice | Working Hours | Defaults to True. |
| NoticeComments | String | 0-1 | 500 | Street Works Notice | Notice Comments | |
| TrafficManagement | String | 0-1 | 4 | Street Works Notice | Traffic | Defaults to the System Setting. |
| FootwayClosure | Boolean | 0-1 | - | Street Works Notice | Footway Closure | If not supplied defaults to False. |
| ParkingRestrictions | Boolean | 0-1 | - | Street Works Notice | Parking Restrictions | If not supplied defaults to False. |
| Permits | Permits | 0-1 | - | Street Works Notice | | Permit fields that apply to this Notice. |
| Agreements | Agreements | 0-1 | - | | | Agreements that apply to this Notice. |
| Mode | String | 0-1 | 50 | | | “Validate”“Save” – This is the default value. It is also the only supported option for EToN 3.“Send”“SendValid”See section 4.4 for a description.’ |

CreateNewWorksResponse

The CreateNewWorksResponse will indicate whether the request was accepted or not. If it was successful, or valid but no Works was created, the result is given as an enumerated type.

| Element | Type | No. of | Max Size | Screen | Field | Notes |
|---------------------|------------------|--------|----------|--------|-------|--|
| NoticeFromOrgCode | String | 1 | 8 | | | Used to identify the request |
| WorksReference | String | 1 | 19 | | | Used to identify the request |
| UpdateStatus | String | 1 | 200 | | | The response is one of the enumerated types described in section 4.4 or one of the following: WorksExists - No change to the database. A new Works has not been created or overwritten because one already exists with the same WorksReference (where the Organisation is an initiator) and version 1 has already been sent. AmbiguousReference - No change to the database. The Works Reference already exists in the database but it was not possible to uniquely identify the records that need updating. |
| Agreements-Required | Agreement | 0-n | - | | | This field is populated when ValidToSend is returned and |

| Element | Type | No. of | Max Size | Screen | Field | Notes |
|----------|--------|--------|----------|--------|-------|--|
| Warnings | String | 0-n | - | | | <p>Agreements are required. It also applies to Success when the mode is Save.</p> <p>This field contains any warnings that apply to the data. This could apply to any return status.</p> |

Setting the CancelledDate property will result in the Works being abandoned provided no Notices have been sent.

If the ActivityTypeCode is inconsistent with the duration an error will be returned, i.e. a Minor Works of 12 days is inconsistent, but a Major Works of 3 days is not necessarily inconsistent.

For Immediate Works when the Actual Start Date is not supplied an unsent Notice will be created and this will be valid even if "send" was requested. The Start Date on the unsent Immediate Notice will use the Estimated Start Date, but there is no requirement to send Notices for Planned Immediate Works.

OPENJOB - REQUEST AND RESPONSE

This request opens an existing Job in Confirm based on the Job Number.

OpenJob

| Element | Type | No. of | Max Size | Screen | Field | Notes |
|-----------|---------|--------|----------|--------|------------|-------|
| JobNumber | Decimal | 1 | 8 | Job | Job Number | |

Note: The OpenRecord operation (See Confirm AM CRM Connector XML Schema) can also be used for this and it will also find a requested record or records.

OpenJobResponse

If the Connector is able to invoke the Confirm application then this response will be returned as an empty element. A fault will be returned if the Confirm application cannot be launched.

Confirm itself will display an error message if the specified Job cannot be found in Confirm.

GETWORKBYINTERNALREF - REQUEST AND RESPONSE

The purpose of this request is to retrieve a list of Works based on the Internal Reference assigned to the Works.

GetWorksByInternalRef

| Element | Type | No. of | Max Size | Screen | Field | Notes |
|-------------------|--------|--------|----------|---------------------|----------|-------|
| InternalReference | String | 1 | 20 | Street Works Notice | Int. Ref | |

GetWorksByInternalRefResponse

The response provides details of all Works whose Internal Reference matches that supplied.

| Element | Type | No. of | Max Size | Screen | Field | Notes |
|---------|-----------------------|--------|----------|--------|-------|-------|
| Works | Works | 0-n | - | | | |

GETWORKSHISTORY - REQUEST AND RESPONSE

The purpose of this request is to retrieve all versions of a specific Works.

GetWorksHistory

| Element | Type | No. of | Max Size | Screen | Field | Notes |
|-------------------|--------|--------|----------|---------------------|------------|-------------|
| NoticeFromOrgCode | String | 1 | 8 | Street Works Notice | From | Second part |
| WorksReference | String | 1 | 19 | Street Works Notice | Works Ref. | Second part |

GetWorksHistoryResponse

The response provides details for all versions of a Works that correspond to the From Organisation Code and Works Reference that is supplied.

| Element | Type | No. of | Max Size | Screen | Field | Notes |
|--------------------|------------------------------------|--------|----------|---------------------|------------|-------------|
| NoticeFromOrgCode | String | 1 | 8 | Street Works Notice | From | Second part |
| WorksReference | String | 1 | 19 | Street Works Notice | Works Ref. | Second part |
| NoticeFromOrgName | String | 1 | 50 | Street Works Notice | From | First part |
| WorksVersion | WorksVersion | 1-n | - | | | |
| InternalRef | String | 0-1 | 20 | Street Works Notice | Int. Ref | |
| WorksNotes | String | 0-1 | 2000 | Street Works Notice | Notes | |
| SendToOrganisation | SendToOrganisation | 0-n | | | | |

WorksVersion

| Element | Type | No. of | Max Size | Screen | Field | Notes |
|--------------------------|----------|--------|----------|---------------------|------------------------------|--|
| VersionNumber | Decimal | 1 | 4(4.0) | Street Works Notice | Version | Notice version |
| NoticeTypeName | String | 1 | 40 | Street Works Notice | Notice Type | |
| WorksStatusName | String | 1 | 40 | Street Works Notice | Wrks Status | The Wrks Status NOT the Occupation Status |
| NoticeIssuedTime | DateTime | 1 | - | Street Works Notice | Issued | |
| ActivityDescription | String | 1 | 500 | Street Works Notice | Desc. | |
| SiteName | String | 1 | 40 | Street Works Notice | Site | First part. Site No. 1 |
| LocalityName | String | 0-1 | 35 | Street Works Notice | Site | Third part. Site No. 1 |
| TownName | String | 0-1 | 35 | Street Works Notice | Site | Third part. Site No. 1 |
| CountyName | String | 0-1 | 35 | Street Works Notice | Site | Third part. Site No. 1 |
| LocationText | String | 1 | 500 | Street Works Notice | Locn. | Site No. 1 |
| AgentContactName | String | 0-1 | 50 | Notice Agent | Name | |
| SiteCode | String | 1 | 10 | Street Works Notice | Site | Second part. Site No. 1 |
| ExternalReference | String | 0-1 | 20 | Street Works Notice | Ext. Ref / Project Reference | For EToN 4 and above the field is called 'Project Reference' |
| WorksReinstateStatus(*1) | String | 1 | 100 | Street Works Notice | Wrks Status | Proposed Abandoned Partial Interim Complete Permanent-Complete |
| InspectionUnits | Decimal | 1 | 4(4,0) | Street Works Notice | Insp Units | |
| LocationPostCode | String | 0-1 | 8 | Street Works Notice | Post Code | |
| StartDateTime | DateTime | 0-1 | - | Street Works Notice | Start | Actual or else estimated date depending on the work status |

| Element | Type | No. of | Max Size | Screen | Field | Notes |
|----------------------------|-----------------------------------|--------|-----------|---------------------|-----------------|---|
| EndDate-Time | DateTime | 1 | - | Street Works Notice | Est. End | Completed or else estimated date depending on the work status |
| WorksX | Decimal | 0-1 | 12 (10,2) | Street Works Notice | Easting | Mandatory if there is a Site on the Notice version |
| WorksY | Decimal | 0-1 | 12 (10,2) | Street Works Notice | Northing | Mandatory if there is a Site on the Notice version |
| WorksReinstate-mentVersion | WorksReinstate-mentVersion | 0-n | | | | |
| DeliveryStatus | String | 0-1 | 8 | Street Works Notice | Invalid Notice | Values: Unknown - The notice has not been acknowledged. Accepted - The notice has been accepted. Rejected - The notice has been rejected. Only present if the notice has been sent. |
| Rejection-Reason | String | 0-1 | 2000 | Street Works Notice | Transfer Text | May be present if the notice has been sent. |
| ChargeCategory | String | 0-1 | 4 | Street Works Notice | Excavation Type | |
| NoticeComments | String | 0-1 | 500 | Street Works Notice | Notice Comments | |
| PermitSchemeID | String | 0-1 | 20 | Street Works Notice | - | |
| PermitStatus | String | 0-1 | 20 | Street Works Notice | Permit Status | |
| ApprovalDate | DateTime | 0-1 | - | Street Works Notice | Permit Status | Contains Permit Date. |
| Conditions | String | 0-1 | 2000 | Street Works Notice | Conditions | Contains Discount, Permit Condi- |

| Element | Type | No. of | Max Size | Screen | Field | Notes |
|-----------------|--------|--------|----------|-----------------------|-------|------------------------|
| PermitReference | String | 0-1 | 35 | Street Works - Notice | | tions and Permit Text. |

Note: WorksReinstateStatus may be one of the enumerated types in the following table.

| WorksReinstateStatus | Notes |
|----------------------|--|
| Proposed | Confirm has no current evidence that the street has been broken up. |
| Abandoned | The Work has been abandoned without breaking up the street. |
| Partial | Some activities have taken place that will have broken up the street, hence reinstatement will be required |
| InterimComplete | All known openings have been reinstated to at least interim standard |
| PermanentComplete | All known openings have been reinstated to permanent standard. |

SendToOrganisation

| Element | Type | No. of | Max Size | Screen | Field | Notes |
|-------------------|---------|--------|----------|-------------------|----------|---|
| Organisation-Code | String | 1 | 8 | Notice Recipients | To | |
| Organisation-Name | String | 1 | 50 | Notice Recipients | To | |
| HighwayAuthority | Boolean | 1 | - | Notice Recipients | Interest | True if the Organisation's interest is "Highway Authority" (DfT code SWA_Org_Type = 1) Note that it is possible that none or more than one Works Organisations may be flagged as the Highway Authority. |

WorksReinstatementVersion

| Element | Type | No. of | Max Size | Screen | Field | Notes |
|----------------|----------|--------|----------|---------------------|---------|------------------------------|
| SequenceNumber | Decimal | 1 | 4(4,0) | Street Works Notice | Num. | |
| LocationText | String | 1 | 500 | Street Works Notice | Locn. | |
| InterimDate | DateTime | 0-1 | - | Street Works Notice | Interim | Interim reinstatement date |
| PermanentDate | DateTime | 0-1 | - | Street Works Notice | Perm. | Permanent reinstatement date |
| GuaranteedDate | DateTime | 0-1 | - | Street Works Notice | Guar. | Guarantee expiry date |

GETWORKSHISTORYBYDATE - REQUEST AND RESPONSE

The purpose of this request is to retrieve a list of Works based on the date and time when the Works was issued.

GetWorksHistoryByDate

| Element | Type | No. of | Max Size | Screen | Field | Notes |
|------------|----------|--------|----------|---------------------|--------|---|
| IssuedFrom | DateTime | 1 | - | Street Works Notice | Issued | The "from" date is mandatory to prevent retrieving a large amount of data inadvertently |
| IssuedTo | DateTime | 0-1 | - | Street Works Notice | Issued | |

GetWorksHistoryByDateResponse

The response provides details of all Works that have been sent or received where the dates match those supplied.

| Element | Type | No. of | Max Size | Screen | Field | Notes |
|-------------|---|--------|----------|--------|-------|-------|
| WorksHeader | GetWorksHistoryResponse | 0-n | - | | | |

UPDATEWORKS – REQUEST AND RESPONSE

The purpose of this request is to update a specific Works record and it may result in the automatic generation of Notices depending on the data supplied and the current status of the Works.

Note: This operation is included for backward compatibility and will be deprecated in a future release. New applications should use an alternative specific operation relevant to the type of update being performed.

The Works to be updated is initially identified using the WorksReference value alone. This is because UpdateWorks can be used to change the Organisation on a Works (and associated Comments and Inspections) if the new Organisation is a Notice initiator and the new Organisation has the same DfT Ref 2 as the original one. The request will fail if no matching Works Reference can be found or there are more than one Works that match but no Organisation Code is the same as the supplied NoticeFromOrgCode value.

UpdateWorks

| Element | Type | No. of | Max Size | Screen | Field | Notes |
|-----------------------|---|--------|----------|---------------------|-------------|---|
| NoticeFromOrgCode | String | 1 | 8 | Street Works Notice | Works Ref. | Second part |
| WorksReference | String | 1 | 19 | Street Works Notice | Works Ref. | Second part |
| AgentContactName | String | 0-1 | 50 | Notice Agent | Name | |
| AgentContactAddress | String | 0-1 | 2000 | Notice Agent | Address | This field contains all addresses related to the agent |
| AgentContactTelephone | String | 0-1 | 20 | Notice Agent | Phone | |
| AgentContactPostcode | String | 0-1 | 50 | Notice Agent | Post Code | |
| CompletionDate | DateTime | 0-1 | - | Street Works Notice | Issued | Cannot be specified unless completion status is specified |
| CompletionStatus | String | 0-1 | 50 | Street Works Notice | Wrks Status | “Interim” or “Complete” |
| InspectionUnits | String | 0-1 | 4(4,0) | Street Works Notice | Insp Units | |
| WorksReinstatement | WorksReinstatement for UpdateWorks | 0-n | | | | |

The behaviour of this operation depends on whether the CompletionStatus is supplied.

CompletionStatus not supplied - The data for the fields supplied will be updated in Confirm. If the current version of the Works has already been sent then a new, unsent version will be created incorporating these changes to preserve the audit trail.

CompletionStatus supplied - The supplied CompletionStatus can only be “Interim” or “Complete” (corresponding to Works Status - Status Flag “Interim” or “Completed”) and Notices will automatically be generated if sufficient information is supplied and the Works are currently at an appropriate status.

System settings in Confirm are used to determine what type of Notice to send. The settings comprise of a combination of Works Status and Notice Type for each of the following.

- Works Clear (where appropriate)
- Works Closed (where appropriate)
- Interim Registration
- Permanent Registration

If these system settings are not set then a <Fault> element explaining which settings are missing will be returned in the response and a new version of the Works will not be created. If two Works versions should be created, e.g. Works Closed and Permanent Registration, but there are no system settings for one of them neither Works version will be created.

For all Sites affected, if the Site Status is “Complete” its Guarantee dates will be set from the Site Date and Warranty Period for the Depth.

The Notices generated by UpdateWorks will depend on the data supplied and the current status of the Works and are described in the sections below.

WorksReinstatement for UpdateWorks

Note: ‘WorksReinstatement’ is applicable only to UpdateWorks. CompleteWorks has a different version of WorksReinstatement.

| Element | Type | No. of | Max Size | Screen | Field | Notes |
|----------------|---------|--------|----------|---------------------|-------|--|
| SequenceNumber | Decimal | 1 | 4(4,0) | Street Works Notice | Num. | |
| LocationText | String | 0-1 | 500 | Street Works Notice | Locn. | If Location-Text is not supplied, Locn. on the Street Works Notice defaults to that of the previous version of that Site. If there are no previous versions of the Site the Locn. defaults to that of the first Site for the Works, i.e. the one with the lowest Site number (normally 1). |

| Element | Type | No. of | Max Size | Screen | Field | Notes |
|----------------|---------|--------|----------|---------------------|----------|---|
| Length | Decimal | 0-1 | 6(4,2) | Street Works Notice | Length | |
| Width | Decimal | 0-1 | 4(2,2) | Street Works Notice | Width | |
| ActualDepth | Decimal | 0-1 | 4(2,2) | Street Works Notice | Depth | Confirm will convert the actual depth to the appropriate pick list value. |
| Position-Code | String | 1 | 4 | Street Works Notice | Position | The Confirm code is used. |
| ReinstatementX | Decimal | 0-1 | 8(6,2) | Street Works Notice | Easting | |
| ReinstatementY | Decimal | 0-1 | 8(6,2) | Street Works Notice | Northing | |

WorksReinstatement may only update Sites that are at a “Proposed” status or Sites that do not currently exist on the Works. Data supplied for Sites not at a “Proposed” state will be ignored and the Guarantee dates of these Sites will not be affected.

If a Completion Status + Completion Date are given a Works Stop Notice will be sent. A Registration Notice will be sent when registration details are provided. These Notices are not dependent, it is valid to send Works Stop Notices without Registration Notices and it is also valid to send Registration Notices without stopping the Works.

It is recommended that Users switch to using the CompleteWorks method. This will support advanced EToN 4 behaviour. The UpdateWorks method will not be extended for EToN 4, although it will continue to work with default settings for any additional fields. UpdateWorks does not have the ability to validate only and it will create the Notices if it can send them.

The presence of a Notice with the send flag unchecked will usually result in an error. The only case where this is not true is when the Notice is of the type being generated in which case the Notice will be updated and sent.

UpdateWorksResponse

This element sends an XML response to the Works Management System as a confirmation of the modification. If the operation has failed or the Works cannot be found, a fault message will be sent. Data in the response will be the state of the Works after the update.

| Element | Type | No. of | Max Size | Screen | Field | Notes |
|---------|-----------------------|--------|----------|--------|-------|-------|
| Works | Works | 0-n | - | | | |

REVISEDWORKSPLANNEDDATES - REQUEST AND RESPONSE

RevisedWorksPlannedDates

| Element | Type | No. of | Max Size | Screen | Field | Notes |
|------------------------|-------------------|--------|----------|---------------------|------------------------|--|
| NoticeFromOrgCode | String | 1 | 8 | Street Works Notice | From (2nd field) | |
| WorksReference | String | 1 | 19 | Street Works Notice | Works Ref. (2nd field) | |
| EstimatedStartDateTime | DateTime | 1 | - | Street Works Notice | Start | |
| EstimatedEndDateTime | DateTime | 0-1 | - | Street Works Notice | Est. End | Defaults based on current duration. |
| NoticeComments | String | 0-1 | 500 | Street Works Notice | Notice Comments | |
| Permits | Permits | 0-1 | - | Street Works Notice | | Permit fields that apply to this Notice. |
| Agreements | Agreements | 0-1 | - | | | Agreements that apply to this Notice. |
| ActivityDescription | String | 0-1 | 500 | Street Works Notice | Desc. | |
| LocationText | String | 0-1 | 120 | Street Works Notice | Locn. | |
| Mode | String | 0-1 | 50 | | | “Validate” “Save” “Send” “SendIfValid” – This is the default value. See section 4.4 for a description. |

RevisedWorksPlannedDatesResponse

| Element | Type | No. of | Max Size | Screen | Field | Notes |
|--------------|--------|--------|----------|--------|-------|---|
| UpdateStatus | String | 1 | 200 | | | The response is one of the following enumerated types Success Saved Sent Val- |

| Element | Type | No. of | Max Size | Screen | Field | Notes |
|-------------------------|------------------|--------|----------|--------|-------|--|
| Agreements- Required | Agreement | 0-n | - | | | idToSend ValidToSend See section 4.4 for a description. This field is populated when ValidToSend is returned and Agreements are required. It also applies to Success when the mode is Save. |
| Warnings | String | 0-n | - | | | This field contains any warnings that apply to the data. This could apply to any return status. |
| Works | Works | 0-n | - | | | |

Works must be at a proposed status for this method to succeed. Agreements will be validated and if required but not supplied for a “Send” method will result will return “Agreement Required” with the AgreementsRequired populated for the necessary Agreements.

Since the ActivityTypeCode cannot be modified, any inconsistency between duration and Work Type will be ignored and no error returned.

The presence of a Notice with the send flag unchecked will usually result in an error. The only case where this is not true is when the Notice is of the type being generated in which case the notice will be updated and sent.

STARTWORKS - REQUEST AND RESPONSE

StartWorks

| Element | Type | No. of | Max Size | Screen | Field | Notes |
|-----------------------|----------|--------|----------|---------------------|------------------------|-------|
| NoticeFromOrgCode | String | 1 | 8 | Street Works Notice | From (2nd field) | |
| WorksReference | String | 1 | 19 | Street Works Notice | Works Ref. (2nd field) | |
| Actual-StartDate-Time | DateTime | 1 | - | Street Works Notice | Start | |

| Element | Type | No. of | Max Size | Screen | Field | Notes |
|----------------------|-------------------|--------|----------|---------------------|-----------------|--|
| EstimatedEndDateTime | DateTime | 0-1 | - | Street Works Notice | Est. End | Defaults based on current duration. |
| NoticeComments | String | 0-1 | 500 | Street Works Notice | Notice Comments | |
| Agreements | Agreements | 0-1 | - | | | Agreements that apply to this Notice |
| Mode | String | 0-1 | 50 | | | “Validate” “Save” “Send” “SendIfValid” – This is the default value. See section 4.4 for a description. |

StartWorksResponse

| Element | Type | No. of | Max Size | Screen | Field | Notes |
|---------------------|------------------|--------|----------|--------|-------|---|
| UpdateStatus | String | 1 | 200 | | | The response is one of the following enumerated types Success Saved Sent ValidToSend ValidToSave See section 4.4 for a description. |
| Agreements-Required | Agreement | 0-n | - | | | This field is populated when ValidToSend is returned and Agreements are required. It also applies to Success when the mode is Save. |
| Warnings | String | 0-n | - | | | This field contains any warnings that apply to the data. |

| Element | Type | No. of | Max Size | Screen | Field | Notes |
|---------|--------------|--------|----------|--------|-------|--|
| Works | Works | 0-n | - | | | This could apply to any return status. |

This method sends an Actual Start Notice if appropriate. The Works must be in a Proposed status for this action to be valid.

If there is an unsent Initial Notice for an immediate works, this Notice will be updated and sent. Under EToN 5, a Revised Duration Estimate Notice may also be sent.

If the Works are in progress, no action will be taken and this will be a successful completion of the method.

The presence of a Notice with the send flag unchecked will usually result in an error. The only case where this is not true is when the Notice is of the type being generated in which case the notice will be updated and sent.

REVISEDWORKSDURATION - REQUEST AND RESPONSE

RevisedWorksDuration

| Element | Type | No. of | Max Size | Screen | Field | Notes |
|---------------------|----------------|--------|----------|---------------------|-----------------|---|
| NoticeFromOrgCode | String | 1 | 8 | Street Works Notice | Works Ref. | Second part |
| WorksReference | String | 1 | 19 | Street Works Notice | Works Ref. | Second part |
| EstimatedEndTime | DateTime | 1 | - | Street Works Notice | Est. End | |
| NoticeComments | String | 1 | 500 | Street Works Notice | Notice Comments | In Progress works cannot have the duration modified without an explanation. |
| Permits | Permits | 0-1 | - | Street Works Notice | | Permit fields that apply to this Notice. |
| ActivityDescription | String | 0-1 | 500 | Street Works Notice | Desc. | Error Correction notice will be created if it is populated and mode is 'Sent' or 'SendIfValid'. |
| LocationText | String | 0-1 | 120 | Street Works Notice | Locn. | Error Correction notice will be created if it is |

| Element | Type | No. of | Max Size | Screen | Field | Notes |
|---------|--------|--------|----------|--------|-------|---|
| Mode | String | 0-1 | 50 | | | <p>populated and mode is 'Sent' or 'SendIfValid'.</p> <p>“Validate” “Save” “Send” “SendIfValid” – This is the default value. See section 4.4 for a description.</p> |

RevisedWorksDurationResponse

| Element | Type | No. of | Max Size | Screen | Field | Notes |
|---------------------|------------------|--------|----------|--------|-------|--|
| UpdateStatus | String | 1 | 200 | | | <p>The response is one of the following enumerated types Success Saved Sent ValidToSend ValidToSave See section 4.4 for a description.</p> |
| Agreements-Required | Agreement | 0-n | - | | | <p>This field is populated when ValidToSend is returned and Agreements are required. It also applies to Success when the mode is Save.</p> |
| Warnings | String | 0-n | - | | | <p>This field contains any warnings that apply to the data. This could apply to any return status.</p> |
| Works | Works | 0-n | - | | | |

This method sends a Revised Duration Notice or Duration Variation Application Notice. The Works must in an In Progress status for this action to be valid.

The presence of a Notice with the send flag unchecked will usually result in an error. The only case where this is not true is when the Notice is of the type being generated in which case the Notice will be updated and sent.

WORKSINFORMATIONUPDATE - REQUEST AND RESPONSE

WorksInformationUpdate

Only elements for items that are to be corrected need to be provided. If an item needs to be corrected to a null value then an empty element should be provided.

| Element | Type | No. of | Max Size | Screen | Field | Notes |
|-----------------------|--------------------|--------|----------|---------------------|------------------------------|--|
| NoticeFromOrgCode | String | 1 | 8 | Street Works Notice | From (2nd field) | |
| WorksReference | String | 1 | 19 | Street Works Notice | Works Ref. (2nd field) | |
| InternalReference | String | 0-1 | 20 | Street Works Notice | Int. Ref | |
| ExternalReference | String | 0-1 | 20 | Street Works Notice | Ext. Ref / Project Reference | For EToN 4 and above the field is called 'Project Reference' |
| ActivityDescription | String | 0-1 | 500 | Street Works Notice | Desc. | |
| AgentContactName | String | 0-1 | 50 | Notice Agent | Name | |
| AgentContactAddress | String | 0-1 | 200 | Notice Agent | Address | |
| AgentContactTelephone | String | 0-1 | 20 | Notice Agent | Phone | |
| AgentContactPostcode | String | 0-1 | 8 | Notice Agent | Post Code | |
| SiteCode | String | 0-1 | 10 | Street Works Notice | Site (2nd field) | |
| LocationText | String | 0-1 | 500 | Street Works Notice | Locn. | |
| WorksX | Decimal | 0-1 | 12(10,2) | Street Works Notice | Easting | |
| WorksY | Decimal | 0-1 | 12(10,2) | Street Works Notice | Northing | |
| Coordinates | Coordinates | 0-1 | - | | | |
| WorksNotes | String | 0-1 | 2000 | Street Works Notice | Notes | |

| Element | Type | No. of | Max Size | Screen | Field | Notes |
|---------------------|-------------------|--------|----------|---------------------|----------------------|--|
| ProjectDescription | String | 0-1 | 2000 | Street Works Notice | Project Desc. | |
| WorkingHours | Boolean | 0-1 | - | Street Works Notice | Working Hours | |
| NoticeComments | String | 0-1 | 500 | Street Works Notice | Notice Comments | Apply to the error correction notice, cannot be used to correct previous comments. |
| TrafficManagement | String | 0-1 | 4 | Street Works Notice | Traffic | |
| FootwayClosure | Boolean | 0-1 | - | Street Works Notice | Footway Closure | |
| ParkingRestrictions | Boolean | 0-1 | - | Street Works Notice | Parking Restrictions | |
| Permits | Permits | 0-1 | - | Street Works Notice | | Permit fields that apply to this Notice. |
| Agreements | Agreements | 0-1 | - | | | Agreements that apply to this Notice |
| Mode | String | 0-1 | 50 | | | “Validate” “Save” “Send” “SendIfValid” – This is the default value. See section 4.4 for a description. |

WorksInformationUpdateResponse

| Element | Type | No. of | Max Size | Screen | Field | Notes |
|--------------|--------|--------|----------|--------|-------|---|
| UpdateStatus | String | 1 | 200 | | | The response is one of the following enumerated types Success Saved Sent ValidToSend ValidToSave AgreementRequired WorksNotSent See section 4.4 |

| Element | Type | No. of | Max Size | Screen | Field | Notes |
|----------------------|------------------|--------|----------|--------|-------|---|
| Agreements- Required | Agreement | 0-n | - | | | for a description. This field is populated when ValidToSend is returned and Agreements are required. It also applies to Success when the mode is Save. |
| Warnings | String | 0-n | - | | | This field contains any warnings that apply to the data. This could apply to any return status. |
| Works | Works | 0-n | - | | | |

The type of Notice generated by the Connector will depend on the current Works Status.

The presence of a Notice with the Send flag unchecked will usually result in an error. The only case where this is not true is when the Notice is of the type being generated in which case the Notice will be updated and sent.

COMPLETEWORKS - REQUEST AND RESPONSE

If both Completion Status and Completion Date are supplied a Works Stop Notice will be sent. A Registration Notice will be sent when Registration details are provided.

The presence of a Notice with the Send flag unchecked will usually result in an error. The only case where this is not true is when the Notice is of the type being generated in which case the Notice will be updated and sent.

CompleteWorks

| Element | Type | No. of | Max Size | Screen | Field | Notes |
|-------------------|----------|--------|----------|---------------------|------------|--|
| NoticeFromOrgCode | String | 1 | 8 | Street Works Notice | From | Second part |
| WorksReference | String | 1 | 19 | Street Works Notice | Works Ref. | Second part |
| CompletionDate | DateTime | 0-1 | - | Street Works Notice | Issued | If Completion Status specified, this field is the Actual End Date. |

| Element | Type | No. of | Max Size | Screen | Field | |
|--------------------|---|--------|----------|---------------------|-----------------|---|
| InspectionUnits | String | 0-1 | 4(4,0) | Street Works Notice | Insp Units | |
| Completion-Status | String | 0-1 | 50 | Street Works Notice | Wrks Status | “Interim” or “Complete” Applies to the works and should not be supplied if registering reinstatements while the works are in progress. |
| ChargeCategory | String | 0-1 | 4 | Street Works Notice | Excavation Type | If not supplied ExcavationNeeded is mandatory, otherwise this specifies the Excavation Type and Excavation-Needed cannot be supplied. The Confirm code is used. |
| Excavation-Needed | Boolean | 0-1 | - | Street Works Notice | Excavation Type | If not supplied ChargeCategory is mandatory, otherwise ChargeCategory cannot be supplied and defaults Excavation Type to the appropriate system setting. |
| NoticeComments | String | 0-1 | 500 | Street Works Notice | Notice Comments | |
| WorksReinstatement | WorksReinstatement for CompleteWorks | 0-n | | | | |
| Mode | String | 0-1 | 50 | | | “Validate” “Save” “Send” “SendIfValid” – This is the |

| Element | Type | No. of | Max Size | Screen | Field | |
|---------|------|--------|----------|--------|-------|---|
| | | | | | | default value. See section 4.4 for a description. |

WorksReinstatement for CompleteWorks

Note: 'WorksReinstatement' is applicable only to CompleteWorks. UpdateWorks has a different version of WorksReinstatement.

| Element | Type | No. of | Max Size | Screen | Field | Notes |
|----------------|---------|--------|----------|---------------------|----------|--|
| SequenceNumber | Decimal | 1 | 4(4,0) | Street Works Notice | Num. | |
| LocationText | String | 0-1 | 500 | Street Works Notice | Locn. | If Location-Text is not supplied, Locn. on the Street Works Notice defaults to that of the previous version of that Site. If there are no previous versions of the Site the Locn. defaults to that of the first Site for the Works, i.e. the one with the lowest Site number (normally 1). |
| Length | Decimal | 0-1 | 6(4,2) | Street Works Notice | Length | |
| Width | Decimal | 0-1 | 4(2,2) | Street Works Notice | Width | |
| ActualDepth | Decimal | 0-1 | 4(2,2) | Street Works Notice | Depth | Confirm will convert the actual depth to the appropriate pick list value |
| Position-Code | String | 1 | 4 | Street Works Notice | Position | The Confirm code is used. |
| ReinstatementX | Decimal | 0-1 | 8(6,2) | Street Works Notice | Easting | |

| Element | Type | No. of | Max Size | Screen | Field | Notes |
|---------------------|--------------------|--------|----------|---------------------|---------------------|--|
| ReinstatementY | Decimal | 0-1 | 8(6,2) | Street Works Notice | Northing | |
| Coordinates | Coordinates | 0-1 | - | | | For EToN 4 either ReinstatementX and ReinstatementY or a Coordinates structure must be provided. |
| Construction-Method | String | 0-1 | 4 | Street Works Notice | Construction Method | Defaults from system setting. |
| Completion-Status | String | 0-1 | 50 | Street Works Notice | Site Status | “Interim” “Complete” “Remedial Reset” “Remedial – guarantee reset” “Remedial No Reset” - Remedial – no guarantee reset “Combined” - Site combined with another site “Subsumed” - Site subsumed by third party reinstatement “No Excavation” – Use this to abandon a Site After works stopped this field will default to works status. If the works completion status has not been supplied this field is mandatory. |
| CompletionDateTime | DateTime | 0-1 | - | Street Works Notice | Issued | If Completion Status specified, this field is |

| Element | Type | No. of | Max Size | Screen | Field | Notes |
|---------|------|--------|----------|--------|-------|----------------------|
| | | | | | | the Actual End Date. |

CompleteWorksResponse

| Element | Type | No. of | Max Size | Screen | Field | Notes |
|-------------------------|------------------|--------|----------|--------|-------|---|
| UpdateSt- atus | String | 1 | 200 | | | The re- sponse is one of the following enumerated types Suc- cess Sent Saved Val- idToSend ValidToSave See section 4.4 for a de- scription. |
| Agreements- Required | Agreement | 0-n | - | | | This field is populated when Val- idToSend is returned and Agreements are required. It also ap- plies to Suc- cess when the mode is Save. |
| Warnings | String | 0-n | - | | | This field contains any warnings that apply to the data. This could apply to any return status. |
| Works | Works | 0-n | - | | | |

CANCELWORKS - REQUEST AND RESPONSE

CancelWorks

| Element | Type | No. of | Max Size | Screen | Field | Notes |
|------------------------|--------|--------|----------|------------------------|---------------------|-------|
| NoticeFro- mOrgCode | String | 1 | 8 | Street Works Notice | From (2nd field) | |

| Element | Type | No. of | Max Size | Screen | Field | Notes |
|----------------------|--------|--------|----------|---------------------|------------------------|---|
| WorksReference | String | 1 | 19 | Street Works Notice | Works Ref. (2nd field) | |
| CancelledWorksStatus | String | 0-1 | 40 | Street Works Notice | Cancel Status | “Permanent” or “Postponed” Defaults according to the phase type. Asset Activity defaults to Permanent, other phase types the field will be ignored since it is not required. For EToN 6 Works this field will be always ignored since it is not required. |
| NoticeComments | String | 0-1 | 500 | Street Works Notice | Notice Comments | |
| Mode | String | 0-1 | 50 | | | “Validate” “Save” “Send” “SendIfValid” – This is the default value. See section 4.4 for a description. |

CancelWorksResponse

| Element | Type | No. of | Max Size | Screen | Field | Notes |
|--------------|--------|--------|----------|--------|-------|---|
| UpdateStatus | String | 1 | 200 | | | The response is one of the following enumerated types Success Saved Sent ValidToSend ValidToSave See section 4.4 for a description. |

| Element | Type | No. of | Max Size | Screen | Field | Notes |
|---------------------|------------------|--------|----------|--------|-------|---|
| Agreements-Required | Agreement | 0-n | - | | | This field is populated when ValidToSend is returned and Agreements are required. It also applies to Success when the mode is Save. |
| Warnings | String | 0-n | - | | | This field contains any warnings that apply to the data. This could apply to any return status. |
| Works | Works | 0-n | - | | | |

This method will send a Cancellation Notice.

Works Status Correction Notices required must be sent manually.

Works cannot be cancelled if any of the following Notices have been sent or received since the Initial Notice:

- Works Stop (even if it was subsequently withdrawn)
- Registration
- Undue Delay

The presence of a Notice with the Send flag unchecked will usually result in an error. The only case where this is not true is when the Notice is of the type being generated in which case the Notice will be updated and sent.

COMMON ELEMENTS

These elements are commonly used by several requests and responses.

Agreements

| Element | Type | No. of | Max Size | Screen | Field | Notes |
|--------------------|------------------|--------|----------|--------|-------|-------|
| AgreementReference | String | 0-1 | 20 | | | |
| AgreementContact | String | 1 | 50 | | | |
| AgreementDateTime | DateTime | 1 | - | | | |
| Agreement | Agreement | 1-n | - | | | |

Agreement

| Element | Type | No. of | Max Size | Screen | Field | Notes |
|----------------|--------|--------|----------|--------|-------|------------------------|
| Agreement-Code | String | 1 | 4 | | | Uses the Confirm code. |

Coordinates

| Element | Type | No. of | Max Size | Screen | Field | Notes |
|-----------------|-------------------|--------|----------|--------|-------|---|
| Coordinate-Type | String | 1 | 50 | | | Point, Line or Region |
| Coordinate | Coordinate | 1-n | - | | | If Point, must contain 1 Co-ordinate only. If Line, must contain at least 2 co-ordinates. If Region must contain at least 4 co-ordinates, the last co-ordinate must be coincident with the first. |

Coordinate

| Element | Type | No. of | Max Size | Screen | Field | Notes |
|---------|---------|--------|----------|--------|-------|-------|
| WorksX | Decimal | 1 | 12(10,2) | | | |
| WorksY | Decimal | 1 | 12(10,2) | | | |

Works

| Element | Type | No. of | Max Size | Screen | Field | Notes |
|--------------------|--------|--------|----------|---------------------|-------------|-------------|
| NoticeFromOrgCode | String | 1 | 8 | Street Works Notice | From | Second part |
| WorksReference | String | 1 | 19 | Street Works Notice | Works Ref. | Second part |
| NoticeFromOrgName | String | 1 | 50 | Street Works Notice | From | First part |
| LastNoticeTypeName | String | 1 | 40 | Street Works Notice | Notice Type | |

| Element | Type | No. of | Max Size | Screen | Field | Notes |
|----------------------------------|----------|--------|----------|------------------------|------------------|--|
| LastNoticels- suedTime | DateTime | 1 | - | Street Works Notice | Issued | |
| Current- Status | String | 1 | 1 | Street Works Notice | Status | The occupa- tion status NOT the Wks Status P: Proposed S: In Pro- gress R: Clear D: Closed A: Abandoned |
| ActivityDe- scription | String | 0-1 | 500 | Street Works Notice | Desc. | |
| SiteName | String | 1 | 40 | Street Works Notice | Site | First part |
| Locality- Name | String | 0-1 | 35 | Street Works Notice | Site | Third part |
| TownName | String | 0-1 | 35 | Street Works Notice | Site | Third part |
| County- Name | String | 0-1 | 35 | Street Works Notice | Site | Third part |
| LocationText | String | 0-1 | 500 | Street Works Notice | Locn. | |
| AgentCon- tactName | String | 0-1 | 50 | Notice Agent | Name | |
| Estimated- StartDate- Time | DateTime | 0-1 | - | Street Works Notice | Start | Whether this value is null or not will depend on the status of the Works |
| Estim- atedEndDat- eTime | DateTime | 1 | - | Street Works Notice | Est. End | |
| Actual- StartDate- Time | DateTime | 0-1 | - | Street Works Notice | Start | Whether this value is null or not will depend on the status of the Works |
| ActualEnd- DateTime | DateTime | 0-1 | - | Street Works Notice | Complete | |
| SiteCode | String | 1 | 10 | Street Works Notice | Site | Second part |
| PermitS- chemelD | String | 0-1 | 20 | Street Works Notice | - | |
| PermitStatus | String | 0-1 | 20 | Street Works Notice | Permit Status | |
| ApprovalD- ate | DateTime | 0-1 | - | Street Works Notice | Permit Status | Contains Permit Date. |

| Element | Type | No. of | Max Size | Screen | Field | Notes |
|-----------------|--------|--------|----------|-----------------------|------------|---|
| Conditions | String | 0-1 | 2000 | Street Works Notice | Conditions | Contains Discount, Permit Conditions and Permit Text. |
| PermitReference | String | 0-1 | 35 | Street Works - Notice | - | |

Permits

| Element | Type | No. of | Max Size | Screen | Field | Notes |
|------------------|----------------------------------|--------|----------|-----------------------|------------|---|
| PermitText | String | 0-1 | 500 | Street Works Notice | Conditions | If supplied then at least one Permit-Condition must also be supplied. |
| PermitConditions | PermitConditions | 0-13 | - | Street Works - Notice | - | If supplied then Permit-Text must also be supplied. |
| Discount | Decimal | 0-1 | 7(5,2) | Street Works Notice | Conditions | If not supplied defaults to '0'. |

PermitConditions

| Element | Type | No. of | Max Size | Screen | Field | Notes |
|-----------------|--------|--------|----------|---------------------|------------|--|
| PermitCondition | String | 1 | 20 | Street Works Notice | Conditions | The External Reference of the Condition Type should be supplied. |