Location Intelligence
Infrastructure Asset Management

Confirm®

Street Works Connector Schema

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October 02, 2026

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Specifications

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

In this section

Street Works Connector XML Schema 6

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:

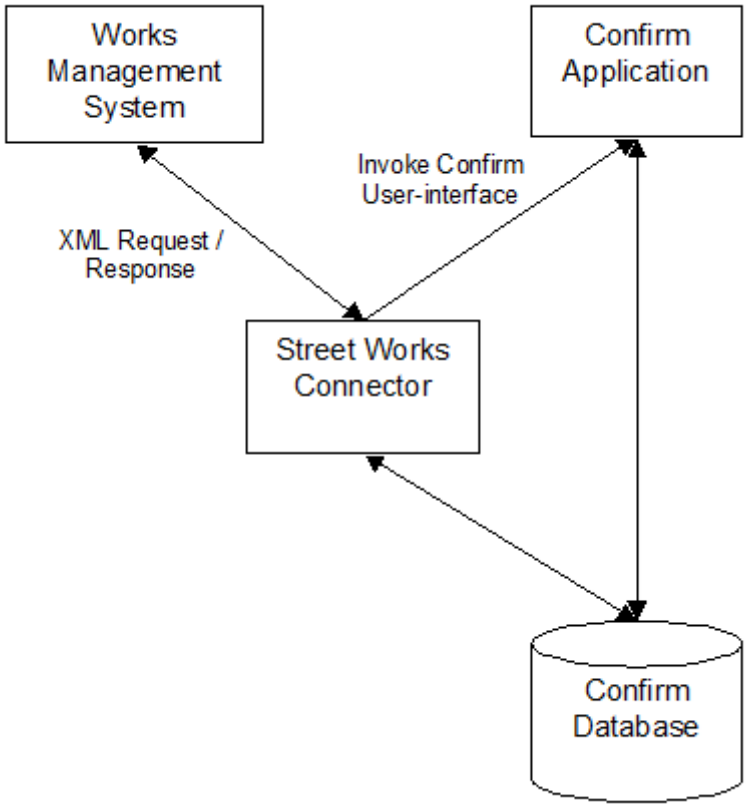
- Data transfer
- Opening Confirm-Street Works forms

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 “WORK_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
				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. ValidToSave - The supplied data can be used to save a notice. ValidToSend is returned whenever that is also true. Applies when Validate is supplied. When Mode is Send this response indicates that the data supplied is ValidToSave but not to send and that the Works was not saved.

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.
EstimatedEndDateTime	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
						not actually stored.
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	
Extern-alReference	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
NoticeFro-mOrgCode	String	0-1	8	Street Works Notice	From	First part. One of No-ticeFromOr-gCode 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.

CREATENEWWORKS - 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
						EToN 3 the system setting will be used. The Confirm code is used.
UrgencyFlag	String	0-1	50	Street Works Notice	Work Type	If not supplied works are presumed to be planned works, if supplied ActivityTypeCode 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
InspectionUnits	Decimal	0-1	4(4,0)	Street Works Notice	Insp Units	Defaults to 1. The Inspection Units Type will always be “Estimated”
ActualStartDateTime	DateTime	0-1	-	Street Works Notice	Start	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

Element	Type	No. of	Max Size	Screen	Field	Notes
						planned works.
Estimated-StartDate-Time	DateTime	0-1	-	Street Works Notice	Start	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.
Estim-atedEndDat-eTime	DateTime	0-1	-	Street Works Notice	Est. End	Defaults to the date the file was processed. This field is mandatory to send the Notice.
AgentCon-tactName	String	0-1	50	Notice Agent	Name	Defaults from Organ-isation
AgentCon-tactAddress	String	0-1	2000	Notice Agent	Address	Defaults from Organ-isation
AgentCon-tactTele-phone	String	0-1	20	Notice Agent	Phone	Defaults from Organ-isation
AgentCon-tactPostcode	String	0-1	8	Notice Agent	Post Code	Defaults from Organ-isation
SiteCode	String	0-1	10	Street Works Notice	Site (2nd field)	Defaults to the system setting Provi-sional 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.
CancelledDate	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 ExcavationNeeded cannot be supplied. The Confirm code is used. See ExcavationNeeded for default value.
ExcavationNeeded	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 - Remedi-alDefaults to Asset Activ-ity.
PhaseCount	Decimal	0-1	4(4,0)	Street Works Notice	No of Phases	Defaults to 1.
ProjectDe-scription	String	0-1	2000	Street Works Notice	Project Desc.	
Working-Hours	Boolean	0-1	-	Street Works Notice	Working Hours	Defaults to True.
NoticeCom-ments	String	0-1	500	Street Works Notice	Notice Com-ments	
TrafficMan-agement	String	0-1	4	Street Works Notice	Traffic	Defaults to the System Setting.
FootwayClos-ure	String	0-1	1	Street Works Notice	Footway Closure	If not sup-plied de-faults to No.
Parkin-gRestrictions	String	0-1	1	Street Works Notice	Parking Re-strictions	If not sup-plied de-faults to No.
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			“Valid-ate”“Save” – This is the default value. It is also the only supported option for EToN 3.“Send”“SendI-fValid”See section 4.4 for a descrip-tion.`

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.
AgreementsRequired	**Agreement**	0-n	-			This field is populated when ValidToSend is returned and

Element	Type	No. of	Max Size	Screen	Field	Notes
						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.

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 InterimComplete PermanentComplete
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
WorksReinstatementVersion	**WorksReinstatementVersion**	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.
RejectionReason	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
						tions and Permit Text.
PermitReference	String	0-1	35	Street Works Notice	-	

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
OrganisationCode	String	1	8	Notice Recipients	To	
OrganisationName	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
GuaranteeDate	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	
CompletionDateTime	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 LocationText 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.
Reinstate-mentX	Decimal	0-1	8(6,2)	Street Works Notice	Easting	
Reinstate-mentY	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
						idToSend 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. 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)	
ActualStartDateTime	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.
AgreementsRequired	**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
						This could apply to any return status.
Works	**Works**	0-n	-			

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
EstimatedEndDateTime	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
						populated and mode is 'Sent' or 'SendIfValid'.
Mode	String	0-1	50			“Validate” “Save” “Send” “SendIfValid” – This is the default value. See section 4.4 for a description.

RevisedWorksDurationResponse

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.
AgreementsRequired	**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 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
						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. 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	
NoticeFromOrgCode	String	1	8	Street Works Notice	From	Second part
WorksReference	String	1	19	Street Works Notice	Works Ref.	Second part
CompletionDateTime	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	
CompletionStatus	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 ExcavationNeeded cannot be supplied. The Confirm code is used.
ExcavationNeeded	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 LocationText 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
PositionCode	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
Reinstate-mentY	Decimal	0-1	8(6,2)	Street Works Notice	Northing	
Coordinates	**Coordin-ates**	0-1	-			For EToN 4 either Rein-statementX and Rein-statementY or a Coordin-ates struc-ture 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“ Re-medial – guarantee reset “Re-medial No Reset” - Re-medial – no guarantee reset “Com-bined” - Site combined with another site “Sub-sumed” - Site sub-sumed by third party reinstate-ment “No Excavation” – Use this to abandon a Site After works stopped this field will de-fault to works status. If the works com-pletion status has not been supplied this field is man-datory.
CompletionD-ateTime	DateTime	0-1	-	Street Works Notice	Issued	If Comple-tion 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	Notes
UpdateStatus	String	1	200	The response is one of the following enumerated types Success Sent Saved ValidToSend ValidToSave See section 4.4 for a description.
AgreementsRequired	**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	-	

CANCELWORKS - REQUEST AND RESPONSE

CancelWorks

Element	Type	No. of	Max Size	Screen	Field	Notes
NoticeFromOrgCode	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
LastNoticeIs-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-chemeID	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 PermitCondition must also be supplied.
PermitConditions	**PermitConditions**	0-13	-	Street Works Notice	-	If supplied then PermitText 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.