

# OTF23 - Changelog

- [V2.3.1 \(2023-10-24\)](#)
- [V2.3 \(2023-10-20\)](#)
  - [BREAKING CHANGES](#)
  - [Changes](#)
- [V2.2 \(2023-09-22\)](#)
  - [BREAKING CHANGES](#)
  - [Changes](#)
- [V2.1.6 \(2023-09-13\)](#)
  - [BREAKING CHANGES](#)
  - [Changes](#)
- [V2.1.5 \(2023-08-30\)](#)
  - [BREAKING CHANGES](#)
  - [Changes](#)
- [V2.1.4 \(2023-08-29\)](#)
- [V2.1.3 \(2023-08-29\)](#)
- [V2.1.2 \(2023-08-23\)](#)
  - [BREAKING CHANGES](#)
- [V2.1.1 \(2023-08-22\)](#)
  - [BREAKING CHANGES](#)
  - [Changes](#)
- [V2.1 \(2023-08-03\)](#)
  - [BREAKING CHANGES](#)
  - [Changes](#)
  - [Known Issues](#)
- [V2.0 \(2023-02-22\)](#)
  - [BREAKING CHANGES](#)
  - [Changes](#)
- [V1.32 \(2023-02-22\)](#)
- [V1.31 \(2023-02-10\)](#)
- [V1.3 \(2022-11-01\)](#)
- [V1.2 \(2022-05-13\)](#)
- [V1.1 \(2021-11-15\)](#)
- [V1.0 \(2021-08-27\)](#)

## V2.3.1 (2023-10-24)

- Fixed an issue where sample files would not generate all date fields
- Fixed an issue where Container\_ServiceProgressInfo.ClientPurchaseOrderReference was wrongly named (should have been Container\_ServiceProgressInfo.ClientReference)
- Added new Message Type: Message\_TankContainer\_StatusUpdate\_HeelDisposal
- Added list of Tags to Remark

## V2.3 (2023-10-20)

### **BREAKING CHANGES**

- Improved ability to better communicate Company information

- Replaced some elements by better elements:

Element	Removed element	Use this element instead
MessageHeaderInfo	SenderID	SenderInfo
	ContactInfo	SenderInfo.ContactInfo
	RecipientID	ReceipientInfo
OrderInfo	SupplierProformaReference	SupplierInfo.ProformaReference
	SupplierOrderReference	SupplierInfo.OrderReference
	OrderStatusInfo	SupplierInfo.OrderStatusInfo
	ClientOrderReference	ClientInfo.OrderReference
Container_HaulierInfo	HaulierName	BusinessUnitInfo
TankContainerInfo	Manufacturer	ManufacturerInfo
	ManufacturerCountry	ManufacturerInfo
ProductInfo	Manufacturer	ManufacturerInfo
Message_TankContainer_InspectionReport	InspectionResultsInfo.SupplierID	SupplierInfo
	InspectionResultsInfo.ClientID	ClientInfo
	InspectionResultsInfo.OperatorID	OperatorInfo
Container_Work_EstimateStatusInfo	LessorID	LessorInfo
	LesseeID	LesseeInfo
Container_ServiceRequest_Work_Repair	LessorID	LessorInfo
	LesseeID	LesseeInfo
TankContainerInfo	OwnerID	ContainerInfo.LessorInfo

- **Improved ability to better communicate Worker information**

- Replaced some elements by better elements:

Element	Removed element	Use this element instead
MessageHeaderInfo	ContactInfo	SenderInfo or OrderInfo.ContactInfo
Container_ServiceProgress_DateInfo	PlannedBy	PlannedByInfo
	StartedBy	StartedByInfo
	FinishedBy	FinishedByInfo
	CancelledBy	CancelledByInfo
Container_Work_EstimateStatusInfo	EstimatorName	EstimatorInfo
Message_TankContainer_InspectionReport	InspectionResultsInfo.InspectorName	InspectorInfo

	InspectionVerification.VerificatorName	VerificatorInfo
Container_HaulierInfo	TruckDriverName	TruckDriverInfo

- **Improved Logistics Facility Identifiers**

- Replaced some elements by better elements:

Element	Removed element	Use this element instead
OrderInfo	SupplierFacilityID	SupplierInfo
	SupplierBICFacilityCode	SupplierInfo.FacilityInfo
	ClientFacilityID	ClientInfo
	ClientBICFacilityCode	ClientInfo.FacilityInfo
Message_Container_PreNotification	ContainerOriginLocation	ContainerOriginInfo.FacilityInfo
	ContainerDestination	ContainerDestinationInfo.FacilityInfo
Message_TankContainer_PreNotification	ContainerOriginLocation	ContainerOriginLocationInfo
	ContainerDestination	ContainerDestinationInfo.FacilityInfo
Message_TankContainer_InspectionReport	InspectionResultsInfo.InspectionLocationID	InspectionResultsInfo.InspectionLocationInfo.FacilityInfo

- **Improved Service Authorization for better return status (such as "received", "rejected", "cancelled")**

- Renamed element "Container\_PreNotificationStatuses" to "Container\_PreNotificationStatus"
- Renamed enum value "Container\_PreNotificationStatus.Empty" to "Container\_PreNotificationStatus.UNKNOWN"
- Added element "Container\_ServiceProgress\_AuthorizationInfo.Status" (enums; Received, Authorized, Rejected, Cancelled, etc.)
- Added optional element "Container\_ServiceProgress\_AuthorizationStatus.Remark"
- Replaced some elements by better elements:

Element	Removed element	Use this element instead
Container_ServiceProgress_AuthorizationInfo	AuthorizedBy	AuthorizedByInfo
Container_ServiceRequest_Work_Repair	LessorAuthorizationReference	LessorInfo.AuthorizationReference
	LesseeAuthorizationReference	LesseeInfo.AuthorizationReference

- **Improved temperature unit registration**

- Added "Kelvin" to "TemperatureMeasures" enum
- The following fields now use the "TemperatureMeasures" enum instead of a string value:
  - TankContainer\_ServiceRequest\_Heating
    - TargetTemperatureUnit
    - MaximumContactTemperatureUnit
    - MinimumTemperatureUnit
    - MaximumTemperatureUnit

- ProductInfo
  - PhysicalChemicalPropertiesInfo
    - VaporPressureAtTemperatureUnit
    - VaporDensityAtTemperatureUnit
    - MeltingPointTemperatureUnit
    - BoilingPointTemperatureUnit
    - FreezingPointTemperatureUnit
    - CriticalTemperatureUnit
    - ViscosityAtTemperatureUnit
  - FireAndExplosionDataInfo
    - FlashPointTemperatureUnit
    - AutoIgnitionTemperatureUnit

- **Improved remarks datamodel**

- Replaced some elements by better elements:

Element	Removed element	Use this element instead
Remarks	RemarkID	ID
	RemarkDate	Date
	RemarkAuthor	AuthorInfo
	RemarkText	Remark

- **Improved Prenotification types enum**

- Renamed enum value "Container\_PreNotificationTypes.Empty" to "Container\_PreNotificationTypes.UNKNOWN"

- **Removed some double elements**

- Message\_TankContainer\_InspectionReport.HardCopyInfo (please use the "Attachments" element for this)
- Removed a double ContactInfo element from ProductInfo.ProductDetails.EmergencyContactInfo

- **Improved Inspection Fields**

- Removed field TankContainerInfo.InspectionDates.ACEP (datetime)

- **Improved Service Request structure & naming**

- Container\_ServiceRequest\_Work\_Repair.Isrequested, as well as Lessor authorization fields have been moved to Container\_ServiceRequest\_Work\_Repair.LessorInfo.Container\_ServiceRequestInfo
- Lessee authorization fields have been moved to Container\_ServiceRequest\_Work\_Repair.LesseeInfo.Container\_ServiceRequestInfo
- Container\_ServiceRequestInfo.ClientPurchaseOrderReference is now Container\_ServiceRequestInfo.Reference
- Container\_ServiceRequestInfo.ClientAuthorizationReference is now Container\_ServiceRequestInfo.AuthorizationReference

## Changes

- **Added Localization Context to Work Estimate (M&R) Status Updates**

- Added element LocalizationInfo to Message\_(Tank)Container\_StatusUpdate\_Work

- **Improved Inspection Fields**

- Added TankContainerInfo.InspectionDates.InitialInspectionDate
- Added Message\_TankContainer\_InspectionReport.InspectionVerification.VerificationPlace
- Added field TankContainerInfo.InspectionDates.ACEPDescription (please note that TankContainerInfo.InspectionDates.ACEP datetime field is removed)

## V2.2 (2023-09-22)

### BREAKING CHANGES

- Dropped optional field *ThirdParty* from *Container\_Work\_EstimateLineProposal* in favor of new *percentage* fields (see below)
- Deprecated *OTF216*

### Changes

- **Support added for new common depot tank container order status field**
  - Added global tank container depot order status enum field to *OrderStatusInfo* (used by most messages)
- **M&R Estimates now have more detail**
  - Added optional *EstimatorName* field to *(Tank)Container\_Work\_EstimateStatusInfo* (used by *Message\_(Tank)Container\_Work\_Estimate* and *Message\_(Tank)Container\_StatusUpdate\_Work*)
  - Added optional *LessorPercentage* field to *Container\_Work\_EstimateLineProposal*
  - Added optional *LesseePercentage* field to *Container\_Work\_EstimateLineProposal*
- **Better way to communicate who is operationally responsible for performing processes**
  - Added optional *StartedBy* field to *Container\_ServiceProgress\_DateInfo* (all status update messages)
  - Added optional *FinishedBy* field to *Container\_ServiceProgress\_DateInfo* (all status update messages)
  - Added optional *CancelledBy* field to *Container\_ServiceProgress\_DateInfo* (all status update messages)
- **Added exchange of Repair References**
  - Added *Container\_Work\_EstimateStatusInfo.LessorInfo.Reference*
  - Added *Container\_Work\_EstimateStatusInfo.LesseeInfo.Reference*
  - Added field *Container\_ServiceRequest\_Work\_Repair.LessorInfo.Reference*
  - Added field *Container\_ServiceRequest\_Work\_Repair.LesseeInfo.Reference*
- **Improved sample file content**

## V2.1.6 (2023-09-13)

### BREAKING CHANGES

- **Dropped *TankContainer\_Inspection.InspectionResultsInfo.InspectionDate***

This was done due to the fact that in different cases the complete dates in the *InspectionResult* element are considered to provide the context of the inspection and the associated date (such as *InspectionResultsInfo.Inspections.LeakproofnessTest.InspectionDate*)
- **Improved Support for FacilityCodes**
  - Renamed *OrderInfo.SupplierLocationID* to *SupplierFacilityID*
- **OTF is now exclusively a set of B2B I/O formats, therefore:**
  - Fully removed all invoice file definitions datamodels versions, please consider using UBL instead
  - Fully removed all Operational Technology (OT) datamodels from earlier versions, this should be handled as a contract between systems and is not considered B2B
  - Fully removed all ERP data synchronization datamodels from earlier versions, this should be handled as a contract between systems and is not considered B2B

### Changes

- **Improved Support for FacilityCodes**
  - Added *OrderInfo.SupplierBICFacilityCode* (ability to explicitly add a [BIC facility code](#))
  - Added *OrderInfo.ClientBICFacilityCode* (ability to explicitly add a [BIC facility code](#))

- Added OrderInfo.ClientFacilityID

## V2.1.5 (2023-08-30)

### BREAKING CHANGES

- Fixed an issue where MessageHeaderInfo.ContactInfo was deeply nested

### Changes

- Fixed an issue where allfields sample files OTFMessage and OTFVersion fields would be incorrect

## V2.1.4 (2023-08-29)

- Fixed an issue where Message\_TankContainer\_PreNotification had no Attachments element

## V2.1.3 (2023-08-29)

- Sample file improvements
  - Sample files now have real-world examples, as well as full field examples containing dummy data in each field (which may not correspond with proper business logic)
  - Sample JSON files no longer contain "specified" fields (please check the JSON settings in the example source code for serialization/deserialization config)
- Added deserialization example code for XML and JSON to the project (for developers)
- Changed TXT files to README.MD which is better readable on Github

## V2.1.2 (2023-08-23)

### BREAKING CHANGES

- JSON: All enums in the sample project and sample files are now exported as string instead of 0-based enum index

## V2.1.1 (2023-08-22)

### BREAKING CHANGES

- Finished migration from ContainerInfo to TankContainerInfo in StatusUpdate messages (cleaning, heating, inspection, transshipment)
- Removed duplicate Container\_Work\_EstimateStatusInfo element from Container\_Work\_EstimateStatusInfo for easier use
- Fixed an issue with the Container\_Work\_EstimateLineProposal Quantity field

### Changes

- Added field OTFMessage to MessageHeaderInfo
- Added general Category and LaborRate fields to Message\_Container\_Work (Tank already had them)
- Fixed an issue where Estimate sample files would not contain quantities and totals
- Fixed an issue where generated OTF21 sample files would have the wrong version number
- Various small improvements of the sample files

## V2.1 (2023-08-03)

### BREAKING CHANGES

- **Improved folder structure**
  - Folder structure is now version-based to improve backward compatibility
- **Improved naming conventions**
  - .cs release file now has "autogenerated\_" as a prefix
  - .xsd release file now has "autogenerated\_" as a prefix
  - .dll release file now has "autogenerated\_" as a prefix
  - Updated C# solution accordingly
- **Improved separation between “containers” and “tank containers”**
  - Modified Message\_Container\_PreNotification, removed all tankcontainer segments
  - Modified Message\_Container\_StatusUpdate\_Storage\_Arrival, changed ContainerStorageArrivalInfo to Container\_StatusUpdate\_Storage\_Arrival
  - Modified Message\_Container\_StatusUpdate\_Storage\_Available, changed ContainerStorageAvailableInfo to Container\_StatusUpdate\_Storage\_Available
  - Modified Message\_Container\_StatusUpdate\_Storage\_Departure, changed ContainerStorageDepartureInfo to Container\_StatusUpdate\_Storage\_Departure
  - Removed TankContainerInfo from Message\_Container\_Work\_Estimate to avoid spaghetti
- **Improved message header Contact information**
  - MessageHeader.ContactName is now in MessageHeader.ContactInfo.Contact.Name
- **Name change TankContainerInfoInspectionInspectionScope**
  - TankContainerInfoInspectionDatesInspectionScope was renamed to TankContainerInfoInspectionDatesLastInspectionScope due to XSD 2 C# autogeneration shenanigans. Will look into it.

### Changes

- **Housekeeping**
  - Added instructions for interface mapping
  - Added separate XSD files per message type for better mapping support
    - Moved combined files to *bin\combined (cs, dll, xsd)* folder
    - Added *bin\separate (xsd)* folder
    - Added generator for separated XSD files
  - Improved separation between “containers” and “tank containers”
    - Added Message\_TankContainer\_PreNotification
    - Added Message\_TankContainer\_StatusUpdate\_Storage\_Arrival
    - Added Message\_TankContainer\_StatusUpdate\_Storage\_Available
    - Added Message\_TankContainer\_StatusUpdate\_Storage\_Departure
    - Added Message\_TankContainer\_Work\_Estimate
    - Updated sample generator accordingly
    - Updated samples accordingly
  - Various improvements and instructions for easier creation of new OTF releases
- **General improvements**
  - Added ability to add remarks to all messages
  - Added ability to add remarks to all Container\_ServiceRequests

- Added Remarks to Container\_ServiceRequestInfo
- Added ability to add attachments to all messages
- Added ability to add ClientPurchaseOrderReferences
  - Added ClientPurchaseOrderReference to Container\_ServiceRequestInfo
  - Added ClientPurchaseOrderReference to (Tank)Container\_StatusUpdate\_Storage\_Arrival
  - Added ClientPurchaseOrderReference to (Tank)Container\_StatusUpdate\_Storage\_Available
  - Added ClientPurchaseOrderReference to (Tank)Container\_StatusUpdate\_Storage\_Departure
  - Added ClientPurchaseOrderReference to Container\_ServiceProgressInfo (used by Message\_TankContainer\_StatusUpdate\_Cleaning, Message\_TankContainer\_StatusUpdate\_Heating & Message\_TankContainer\_StatusUpdate\_Inspection)
- Added ExchangeRate fields to LocalizationInfo
- **Pre-notification improvements**
  - Added more options to Container\_PreNotificationTypes for better context of PreNotifications
    - Added OnHire, OffHire to Container\_PreNotificationTypes
  - Added ability to add seals to TankContainer\_StateInfo
- **Depot Services improvements**
  - Improved ability to return Haulier info on sending Arrival and Departure status updates
    - Modified Message\_Container\_StatusUpdate\_Storage\_Arrival, added Container\_HaulierInfo segment
    - Modified Message\_Container\_StatusUpdate\_Storage\_Departure, added Container\_HaulierInfo segment
- **Heating improvements**
  - Added fields to TankContainer\_ServiceRequest\_Heating
    - RequestedHeatingMethod, RequiredHeatingTemperatureMeasurementMethod, MaximumPressure, MaximumContactTemperature, MinimumTemperature, MaximumTemperature
- **M&R Estimate improvements**
  - Added ability for Estimate Total to Message\_TankContainer\_Work\_Estimate
    - Added LaborRate to Message\_TankContainer\_Work\_Estimate
    - Added EstimateLinesProposalTotal to Message\_TankContainer\_Work\_Estimate
  - Added Category field to Message\_TankContainer\_Work\_Estimate
  - Improved Container\_Work\_EstimateLines
    - Added GeneralCodes.ComponentCode to Container\_Work\_EstimateLines
    - Added ability to add attachments to Container\_Work\_EstimateLines
- **Chemical Product Data**
  - Added ProductDetails Segments to ProductInfo
    - Manufacturer, SDSURL, PureProductDetails, MixtureProductDetails, HazardousProductSafetyClassifications, PhysicalChemicalPropertiesInfo, FireAndExplosionDataInfo, EmergencyContactInfo

## Known Issues

- Some XSD definitions could use optimizations due to nesting
- Due to order of autogeneration, sometimes names change leading to unwanted low impact breaking changes in new versions of OTF

## V2.0 (2023-02-22)

### BREAKING CHANGES

OTF has been fully redesigned. This has the following benefits:



- Unified structure (all message headers are the same)
- XSD makes sure developers can start quickly, since it is mostly its own documentation
- Various requests for less generic fields (especially dam, mat, loc codes)
- OTF-Invoice removed: please use UBL Invoice format ([link](#))

## Changes

- New formats introduced
  - PreNotification messages  
(redelivery notification, release notification, accompaniedCleaning, quickRepair, heating, etc.)
    - Message\_Container\_PreNotification
    - Message\_Container\_PreNotification\_StatusUpdate
  - Container services StatusUpdate messages
    - Message\_Container\_StatusUpdate\_Storage\_Arrival
    - Message\_Container\_StatusUpdate\_Storage\_Available
    - Message\_Container\_StatusUpdate\_Storage\_Departure
    - Message\_TankContainer\_StatusUpdate\_Cleaning
    - Message\_TankContainer\_StatusUpdate\_Heating
    - Message\_TankContainer\_StatusUpdate\_Inspection
    - Message\_TankContainer\_StatusUpdate\_Transshipment
  - Work messages (modifications & repair)
    - Message\_Container\_Work\_Estimate (can be annotated and authorized)
    - Message\_Container\_StatusUpdate\_Work
  - PeriodicInspection Messages
    - Message\_TankContainer\_InspectionReport
- XSD available
- C# class available
- Deprecated all versions up until OTF V1.3
  - Formats deprecated and replaced by new structures
    - OTF-Gate Move
    - OTF-M&R Estimate Saga
    - OTF-Periodic Inspection Certificate
    - OTF-Pre announcement
    - OTF-Workflow Status Information
  - Formats on-hold for now (since they do not belong in the supply chain)
    - OTF-Cleaning Audit
    - OTF-Debtor Data
    - OTF-Equipment Data
    - OTF-Gate Drivetrrough Audit
    - OTF-Heating Audit
    - OTF-Product Data
    - OTF-Spare Part Data
    - OTF-Spare Part Purchase Order
  - Formats dropped
    - OTF-Invoice removed: please use UBL Invoice format ([link](#))

## V1.32 (2023-02-22)

- Added field *Certificate > CertificateData > Characteristics > ISO6346SizeTypeCode (string)* to *Periodic Inspection Certificate* message

## V1.31 (2023-02-10)

- Added optional customer suborder reference field (usually reserved for authorization) to *Workflow Status Information*

## V1.3 (2022-11-01)

- Added "Periodic inspection certificate" format

## V1.2 (2022-05-13)

- Added "About" information
- Added Changelog
- Added "History of interfaces" document for clarification
- Added "Interface checklist" for easier coopération and better explanations for project managers and higher-up stakeholders
- Gate Drivethrough Event definition updated (clarified & changed some formats)
- Cleaning Maintenance definition added
- Pre announcement updated
  - Documentation improved
  - Now supports polymer cleaning request flag
  - Extra wishes now supports quantity
  - Extra wishes now supports explicit cleaning method code
- Spare Part Purchase Order updated (documentation improved with some specific outbound clarifications)

## V1.1 (2021-11-15)

- Debtor Data definition added
- Product Data definition added
- Heating Data definition added
- Gate Drivethrough Event definition added
- Pre announcement updated (main service flags are now deprecated)
- Gate Move updated (some explanations added)
- Workflow Status Information updated (some explanations added)
- M&R Estimate Saga updated (improved documentation, added support for lessor counteroffers)
- Invoice updated (added VAT rounding strategy variant)
- Spare Part Purchase Order updated (added support for inbound (delivery), made separation between inbound (delivery) and outbound (spare parts supplier))

## V1.0 (2021-08-27)

- Initial release