

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
- Improved version control
- Deprecated OTF22

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_Transhipment
 - 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 Drivetrough 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 coöperation 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