OTF23 - Changelog

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	RecepientInfo
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 Supplier*Facility*ID
- **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, transhipment)
- 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# autgeneration 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