

## The change history of the schemas (Version 3.0)

This is a document for writing down changes that are made to schema files and their documentation. This document covers changes that are made to version 3.0. These schema files based on draft version 2.1 (18.10.2012). All changes that are made to version 2.1 are also made here.

Date	Schema file	Author	Change
26.10.2012	StanForD2010CommonDefinitions_V3p0.xsd	JAS	<ul style="list-style-type: none"> <li>• Added two new complex types CommonProductDetailsType and ProductDetailsType</li> <li>• Removed ClassifiedProductDefinitionMachineType, ProductDefinitionMachineType and CommonProductDefinitionMachineType</li> <li>• Added ObjectModificationDate into ObjectDefintion</li> <li>• Changed versionDate and languageCode attributes mandatory in MessageAttributeGroup</li> <li>• Added a new complex type CommonObjectDefinitionType which content is old ObjectDefintionType</li> <li>• Modify ObjectDefinitionType so that it's base type is CommonObjectDefintionType and additionally it have sub-object structure and TextToMachine element</li> <li>• Changed base type of ObjectDefinitionMachineType to CommonObjectDefinitionType</li> </ul>
26.10.2012	HarvestedProduction_V3p0.xsd	JAS	<ul style="list-style-type: none"> <li>• Changed type name from ProductDefinitionMachineMachineHarvestedProductionType to ProductDefinitionMachineHarvestedProductionType</li> <li>• Changed content of ClassifiedProductDefinitionMachineHarvestedProductionType to follow ideas presented in June 2012 and accepted in telephone meeting 20.8.2012</li> </ul>

26.10.2012	ProductInstruction_V3p0.xsd	JAS	<ul style="list-style-type: none"> <li>• Changed content of ClassifiedProductDefinitionProductInstructionType to follow ideas presented in June 2012 and accepted in telephone meeting 20.8.2012</li> <li>• Removed CommonProductDefinitionProductInstructionType</li> </ul>
26.10.2012	HarvestingQualityControl_V3p0.xsd	JAS	<ul style="list-style-type: none"> <li>• Changed content of ClassifiedProductDefinitionMachineHarvestingQualityControlType to follow ideas presented in June 2012 and accepted in telephone meeting 20.8.2012</li> </ul>
26.10.2012	ForwardedProduction_V3p0.xsd	JAS	<ul style="list-style-type: none"> <li>• Added ClassifiedProductDefinitionMachineForwardedProductionType and implemented it to follow ideas presented in June 2012 and accepted in telephone meeting 20.8.2012</li> </ul>
26.10.2012	ForwardingDeliveryInstruction_V3p0.xsd	JAS	<ul style="list-style-type: none"> <li>• Changed content of ClassifiedProductDefinitionForwardingDeliveryInstructionType to follow ideas presented in June 2012 and accepted in telephone meeting 20.8.2012</li> <li>• Removed CommonProductDefinitionForwardingDeliveryInstructionType</li> </ul>
26.10.2012	TotalHarvestedProduction_V3p0.xsd	JAS	<ul style="list-style-type: none"> <li>• Added complex types ProductDefinitionMachineTotalHarvestedProductionType and ClassifiedProductDefinitionMachineTotalHarvestedProductionType and implemented them to follow ideas presented in June 2012 and accepted in telephone meeting 20.8.2012</li> </ul>
26.10.2012	ObjectInstruction_V3p0.xsd	JAS	<ul style="list-style-type: none"> <li>• Removed ObjectModificationDate from ObjectDefinitionObjectInstructionType (it is included in ObjectDefintionType)</li> <li>• Removed sub-object structure and TextToMachine element from ObjectDefinitionObjectInstructionType</li> </ul>
26.10.2012	ForwardingObjectInstruction_V3p0.xsd	JAS	<ul style="list-style-type: none"> <li>• Removed ObjectModificationDate from ObjectDefinitionForwardingObjectInstructionType (it is included in ObjectDefintionType)</li> <li>• Removed sub-object structure and TextToMachine element from ObjectDefinitionForwardingObjectInstructionType</li> <li>• Added a new mandatory and repeatable element LocationUserID into</li> </ul>

			<p>ObjectDefinitionForwardingObjectInstructionType</p> <ul style="list-style-type: none"> <li>Removed ObjectUserID and SubObjectUserID elements from LocationDefinitionType</li> </ul>
26.10.2012	ObjectGeographicalInstruction_V3p0.xsd	JAS	<ul style="list-style-type: none"> <li>Removed ObjectModificationDate from ObjectDefinitionObjectGeographicalInstructionType (it is included in ObjectDefintionType)</li> <li>Removed sub-object structure and TextToMachine element from ObjectDefinitionObjectGeographicalInstructionType</li> </ul>
26.10.2012	ObjectGeographicalReport_V3p0.xsd	JAS	<ul style="list-style-type: none"> <li>Removed ObjectModificationDate from ObjectDefinitionObjectGeographicalReportType (it is included in ObjectDefintionType)</li> <li>Changed ObjectDefinitionObjectGeographicalReportTypes base type to ObjectDefinitionMachineType and removed duplicate elements</li> </ul>
25.11.2012	StanForD2010CommonDefinitions_V3p0.xsd	JAS	<ul style="list-style-type: none"> <li>Updated the annotation of CuttingReasonSpecification in CuttingCategoryType</li> <li>Updated the annotation of stemVolumeCategory in StemVolumeType</li> </ul>
25.11.2012	HarvestedProduction_V3p0.xsd	JAS	<ul style="list-style-type: none"> <li>Changed the unit annotation of the element StemVolume from “positive value” to “non-negative decimal” in SingleTreeFelledStemType</li> </ul>
25.11.2012	HarvestingQualityControl_V3p0.xsd	JAS	<ul style="list-style-type: none"> <li>Updated the annotation of the element ControlStemSettings in ControlValuesType</li> </ul>
25.11.2012	ForwardedProduction_V3p0.xsd	JAS	<ul style="list-style-type: none"> <li>Updated the annotation of the element DistanceFromLastUnloading in LoadType</li> <li>Added an optional element ScaleKey into PartialLoadType</li> </ul>
25.11.2012	OperationalMonitoring_V3p0.xsd	JAS	<ul style="list-style-type: none"> <li>Made ObjectKey and SubObjectKey non-repeatable in OperatorShiftDefinitionType</li> <li>Added a new simple type ReportFilterCategoryType.</li> <li>Changed element name from “ReportIncludingAll” to “ReportFilterCategory” and</li> </ul>

			changed also its type to ReportFilterCategoryType.
25.11.2012	ForwardingDeliveryInstruction_V3p0.xsd	JAS	<ul style="list-style-type: none"> <li>Made Density element repeatable in DeliveryDefinitionForwardingDeliveryInstructionType</li> </ul>
25.11.2012	All	JAS	<ul style="list-style-type: none"> <li>Changed type of every ModificationDate element into ModificationDateType in all schema files. This change add an optional attribute modificationAuthor to every modification date information.</li> </ul>
20.12.2012	StanForD2010Envelope_V3p0.xsd	JAS	<ul style="list-style-type: none"> <li>Added an mandatory attribute versionDate into StanForD2010EnvelopeType</li> </ul>
20.12.2012	SpeciesGroupInstruction_V3p0.xsd	JAS	<ul style="list-style-type: none"> <li>Updated annotation of the SoundKnotFunction element according a decision made in April 2012 meeting</li> </ul>
20.12.2012	StanForD2010CommonDefinitions_V3p0.xsd	JAS	<ul style="list-style-type: none"> <li>Updated the annotation of ModificationDate in CommonProductDefinitionType according a decision made in April 2012 meeting</li> </ul>
10.1.2013	StanForD2010CommonDefinitions_V3p0.xsd	JAS	<ul style="list-style-type: none"> <li>Removed not any more used SoundKnotFunctionCategoryType</li> </ul>
10.1.2013	ForwardedProduction_V3p0.xsd	JAS	<ul style="list-style-type: none"> <li>Corrected ProductKeyRefSingleTreeProcessedStemLog constraint</li> <li>Renamed type name from UserDefinedDataType to UserDefinedDataForwardedProductionType</li> </ul>
10.1.2013	OperationalMonitoring_V3p0.xsd	JAS	<ul style="list-style-type: none"> <li>Renamed type name from UserDefinedDataType to UserDefinedDataOperationalMonitoring Type</li> </ul>
10.1.2013	HarvestedProduction_V3p0.xsd	JAS	<ul style="list-style-type: none"> <li>Renamed type name from UserDefinedDataType to UserDefinedDataHarvestedProduction Type</li> </ul>
10.1.2013	TotalHarvestedProduction_V3p0.xsd	JAS	<ul style="list-style-type: none"> <li>Renamed type name from UserDefinedDataType to UserDefinedDataTotalHarvestedProduction Type</li> </ul>
31.1.2013	Some	JAS	<ul style="list-style-type: none"> <li>Updated few VarNumber annotations according the appendix of the agenda of the</li> </ul>

			phone meeting 5.2.2013
30.4.2013	StanForD2010CommonDefinitions_V3p0.xsd	JAS	<ul style="list-style-type: none"> <li>• Updated the descriptions of the LongLogButtMIN and LongLogButtMAX elements in LongTimberDefinitionType</li> <li>• Updated the description of the DiameterMAXButt element in DiameterDefinitionType</li> <li>• Updated the description of the StemTypeCode element in CommonProductDefinitionType</li> <li>• Removed languageCode attribute from MessageAttributeGroup</li> <li>• Added a new optional and repeatable element StemCode into SpeciesGroupDefinitionWithDetailsType</li> <li>• Added a new optional element StemCode into StemType</li> <li>• Removed a “None” value from enumeration BioEnergyAdaptionType</li> <li>• Added two new complex types: InfoType and VersionType</li> <li>• Changed all the types of XxInfo and XxVersion elements to corresponding new types in all schemas.</li> <li>• Changed all descriptions of XxInfo and XxVersion elements in all schemas</li> <li>• Removed CuttingReasonSpecification element from CuttingCategoryType</li> <li>• Added a new optional element BaseMachineManufacturerID into MachineType</li> <li>• Added a new complex type CommonDeliveryDefinitionType that gather common content of delivery structure of fpr and fdi messages</li> <li>• Made all structural changes presented in appendix 1 of minutes 10-11.4.2013 and updates to that presented 6.5.2013</li> <li>• Moved SpeciesGroupPresentationOrder element into CommonSpeciesGroupDefintionType</li> </ul>

			<ul style="list-style-type: none"> <li>• Moved ProductPresentationOrder element into CommonProductDefintionType</li> <li>• Added DeliveryPresentationOrder element into CommonDeliveryDefinitionType</li> </ul>
30.4.2013	StanForD2010Envelope_V3p0.xsd	JAS	<ul style="list-style-type: none"> <li>• Added an mandatory and fixed (“env”) attribute messageType in to the root element of message</li> <li>• Changed structures so that embedded and compressed messages or attachments should not be used in envelopes</li> </ul>
30.4.2013	OperationalMonitoring_V3p0.xsd	JAS	<ul style="list-style-type: none"> <li>• Removed an enumeration value “Other filter” from ReportFileterCategoryType</li> </ul>
30.4.2013	ForwardingQualityControl_V3p0.xsd	JAS	<ul style="list-style-type: none"> <li>• Made Density element repeatable in DeliveryDefinitionType</li> </ul>
30.4.2013	ObjectInstruction_V3p0.xsd	JAS	<ul style="list-style-type: none"> <li>• Changed ObjectDefinition element to non-repeatable in ObjectInstructionType</li> </ul>
30.4.2013	ForwardingObjectInstruction_V3p0.xsd	JAS	<ul style="list-style-type: none"> <li>• Changed ObjectDefinition element to non-repeatable in ForwardingObjectInstructionType</li> </ul>
30.4.2013	ObjectGeographicalInstruction_V3p0.xsd	JAS	<ul style="list-style-type: none"> <li>• Changed ObjectDefinition element to non-repeatable in ObjectGeographicalInstructionType</li> </ul>
30.4.2013	ForwardedProduction_V3p0.xsd	JAS	<ul style="list-style-type: none"> <li>• Changed the types of LoadGreenMass and LoadVolume elements from PositiveDecimal to xsd:desimal</li> </ul>
30.4.2013	StanForD2010CodeList_V3p0.xsd	JAS	<ul style="list-style-type: none"> <li>• Modified enumeration codes according the minutes 10-11.4.2013 in chapter 8</li> </ul>
30.4.2013	All	JAS	<ul style="list-style-type: none"> <li>• Updated version and date information to “pre-release_3.0” and “2013-04-11”</li> </ul>
29.5.2013	StanForD2010CommonDefinitions_V3p0.xsd	JAS	<ul style="list-style-type: none"> <li>• Added a new complex type DeliveryDefinitionWithDetailsType that contain the common delivery data for fpr and fqc messages</li> <li>• Added modificationRestricted attribute into BarkFunctionType and ButtEndProfileExtrapolationType</li> </ul>

29.5.2013	ForwardingQualityControl_V3p0.xsd	JAS	<ul style="list-style-type: none"> <li>• Changed the type of DeliveryDefinition element to DeliveryDefinitionWithDetailsType in MachineForwardingQualityControlType</li> </ul>
29.5.2013	ForwardedProduction_V3p0.xsd	JAS	<ul style="list-style-type: none"> <li>• Changed the type of DeliveryDefinition element to DeliveryDefinitionWithDetailsType in MachineForwardedProductionType</li> </ul>
19.11.2013	StanForD2010CommonDefinitions_V3p0.xsd	JAS	<ul style="list-style-type: none"> <li>• Updated the annotation of the StemCode element in SpeciesGroupDefinitionWithDetailsType</li> <li>• Updated the annotation of the StemCode element in StemType</li> <li>• Added an optional modificationRestricted attribute for StemCode in SpeciesGroupDefinitionWithDetailsType</li> <li>• Added following text “Extrapolation method must be used also in cases where you get measurement values below breast height (normally 130 cm).” into description of ButtEndProfileExtrapolation element in CommonSpeciesGroupDefinitionType</li> <li>• Removed the values “Calculated Norwegian mid” and “Calculated Estonian mid” from DiameterClassCategoryType and updated correspond elements annotation.</li> <li>• Added a new optional element DeliveryDescription into CommonDeliveryDefinitionType</li> <li>• Added a new optional element ProductDescription into CommonProductDefinitionType</li> <li>• Changed the data type of Price element in ProductMatrixItemType to nonNegativeInteger as well as added to the annotation for element Price that "Possible negative values originating from an apt-file must be converted to the value 0"</li> <li>• Added description text “Should not affect element Latitude used in function Skogforsk 2004 Scots pine since it must be settable in</li> </ul>

			<p>the harvester” into modificationRestricted attribute in BarkFunctionType</p> <ul style="list-style-type: none"> <li>• Added description text “Not to be restricted by modificationRestricted” into Latitude element in Skogforsk2004ScotsPineType</li> <li>• Corrected mixed upped descriptions in elements German and Skogforsk2004ScotsPine in BarkFunctionType</li> <li>• Added an optional boolean element StumpTreatment into StemType</li> <li>• Added a new complex type CommonLocationDefinitionType that contain all location specific common elements from foi and fpr messages</li> </ul>
19.11.2013	All	JAS	<ul style="list-style-type: none"> <li>• Added following text into end of DateTime elements description in annotation: “Time stamp must have the following times registered: local time ±offset from UTC.”</li> </ul>
19.11.2013	HarvestingQualityControl_V3p0.xsd	JAS	<ul style="list-style-type: none"> <li>• Updated the unit of annotation of the MeasurementData element in LogMeasurementHarvestingQualityControlType as follows: yyyy-mm-ddThh:mm:ss[+ -]hh:mm</li> </ul>
19.11.2013	ForwardingQualityControl_V3p0.xsd	JAS	<ul style="list-style-type: none"> <li>• The annotation of ScaleControlKey in ScaleCalibrationType is updated according to the following text: Machine unique scale control identity, set by machine. Used in order to describe what scale control data was used for a scale calibration.</li> <li>• Added enumeration value ”Static” to scaleWorkCategoryType and updated correspondent annotation</li> <li>• The description of ScaleCalibrationAdjustment element in ScaleCalibrationType is updated according to the following text: “Scale adjustment in %. 100% is equal to no adjustment and 105 % means that the scale is adjusted with 5% upwards. 102% is to be registered if scale is adjusted -3% at subsequent calibration.”</li> </ul>
19.11.2013	ForwardingObjectInstruction_V3p0.xsd	JAS	<ul style="list-style-type: none"> <li>• Made LocationDefinitionTypes base type CommonLocationDefinitionType and</li> </ul>

			removed duplicate elements
19.11.2013	ForwardedProduction_V3p0.xsd	JAS	<ul style="list-style-type: none"> <li>Made LocationDefinitionMachineTypes base type CommonLocationDefinitionType and removed duplicate elements</li> </ul>
19.11.2013	OperationalMonitoring_V3p0.xsd	JAS	<ul style="list-style-type: none"> <li>Added a new complex type SpeciesGroupDefinitionOperationalMonitoringType that changes a set of elements from mandatory (in other messages) to optional. These elements are: DBHHeight, Grades and BarkFunction</li> <li>Changed the type of SpeciesGroupDefinition element from SpeciesGroupDefinitionWithDetailsAndKeyType to SpeciesGroupDefinitionOperationalMonitoringType</li> </ul>
19.11.2013	HarvestingQualityControl_V3p0.xsd	JAS	<ul style="list-style-type: none"> <li>Took SpeciesGroupDefinition structure away from ControlValueType and moved it upwards to same level as choice</li> </ul>
16.12.2013	StanForD2010CommonDefinitions_V3p0.xsd	JAS	<ul style="list-style-type: none"> <li>Added following text ““Mid diameter” is measured at a position defined according to VolumeLengthCategory.” into description of VolumeDiameterCategory element in PriceDefinitionType</li> <li>Added a new complex type GermanDistanceBased and corresponding element to BarkFunctionType</li> <li>Added a new BarkDeductionDistanceType with two attributes distanceClassLowerLimit and dBHClassLowerLimit</li> <li>Added a new enumeration “GermanDistanceBased” to BarkFunctionCategoryType</li> </ul>
16.12.2013	UserDefinedDataInstruction_V3p0.xsd	JAS	<ul style="list-style-type: none"> <li>Added an new attribute tableTriggerPoint and correnpondant simple type TableTriggerPointType to DataTableDefinitionType</li> </ul>
9.2.2014	OperationalMonitoring_V3p0.xsd	JAS	<ul style="list-style-type: none"> <li>Updated the annotation of OperatorWorkTimeCategory attribute according the values of enumeration of OperatorWorkTimeCategoryType in OperatorWorkTimeType</li> </ul>
9.2.2014	ObjectInstruction_V3p0.xsd	JAS	<ul style="list-style-type: none"> <li>Removed HarvestingBioEnergyType because it was “leftover”</li> </ul>

9.2.2014	UserDefinedDataIns truction_V3p0.xsd	JAS	<ul style="list-style-type: none"><li>• Added an new attribute tableTriggerPoint and correnpondant simple type TableTriggerPointType to DataTableDefinitionType</li></ul>
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