

# **papiNet<sup>®</sup> Forest Wood Supply & Bioproducts**

## **Use Case 01**

### **Roundwood to a sawmill in Northern Europe**

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## 2. FWS Use Case 01 - Roundwood to a sawmill in Northern Europe

### 2.1 Overview

The Forest Company is selling saw logs to a Sawmill Company. The Forest Company is the buyer of the transport services. The Forest Company sends a **Delivery Instruction** to the Transport Company to instruct delivery of saw logs to the sawmill. The delivery is made by truck from one logging area with two supply points. The Sawmill Company is buying two products. The products are measured at the sawmill by the Measuring Company. The transport is instructed to go to a measuring location at the sawmill by a TransportOtherInstructions.

The Transport Company accepts to carry out this delivery instruction by responding with a **Business Acceptance**.

An **Inventory Status** is sent from the Forest Company to the Transport Company to inform about the inventory at the roadside landings. Based on this information the Transport Company can do detailed planning of the transports. Deliveries are made from one logging area with two supply points. The Inventory Status has inventory at two supply points, one supply point with one product and one supply point with two products.

When the truck is loaded the Transport Company sends a **Delivery Message** to the Forest Company. The truck is loaded with three log piles from one supply point with one product.

The products will be measured by the Measuring Company. The Forest Company sends the **Delivery Message** to the Measuring Company to notify about the arriving truck. This document contains a reference to the Delivery Message issued by the Transport Company. A Measuring Instruction specifies in detail how the measuring should be done. The Measuring Instruction is not specified in this use case..

The truck sends a **Shipment Status** to the Transport Company as a proof of delivery and with actual transport information as a base for billing of the transport. The truck reports transported quantity, distance with load and unloading waiting time.

The Measuring Company sends a **Measuring Ticket type MeasuringTicket** to the Forest Company when the delivery is measured. Delivered logs are measured log by log. The delivery contains one product from one supply point at the logging area. Measured logs are sorted and grouped into two new specific products depending on the quality of the logs. Rejects because of Forest Rot are reported as a third product. Invoicing of the delivered products is based on the Measuring Ticket.

Invoicing of transport costs are based on quantities measured log by log. The Forest Company informs the Transport Company about measured quantities by sending a **Measuring Ticket type MeasuringTicket**.

The Transport Company sends an **Invoice** to the Forest Company for payment of the transport costs.

The Forest Company sends an **Invoice** to the Sawmill Company for payment of the delivered products. A detailed specification of the invoice is also created in the invoicing process and sent as a **Measuring Ticket type InvoiceSpecification** to the Sawmill Company.

It is recommended to use papiNet e-document **Business Acknowledgement** as a system acknowledgement for all received papiNet e-documents. An e-document receiver uses the Business Acknowledgement to notify the sender that a document has been successfully presented to the receiver's ERP system. The Status with value Success or Failure specifies whether the document content has been validated without or with errors when presented to the receiver's ERP system.

papiNet e-documents are recommended to be wrapped into the **papiNet Envelope** before they are sent. The xml-file that is sent to the receiving party consists of the papiNet Envelope and the papiNet e-document. Routing and processing of e-documents are much easier to implement in a consistent way by using the papiNet Envelope. Attachments to the papiNet e-document can also be wrapped and sent in the papiNet Envelope. Additional transmission envelopes can be used by the message service when transmitting the message.

## 2.2 Delivery Instruction

The Forest Company is selling saw logs to a Sawmill Company. The Forest Company is the buyer of the transport services. The Forest Company sends a Delivery Instruction to the Transport Company to instruct delivery of saw logs to the sawmill. The products are going to be measured at the sawmill by the Measuring Company. The transport is instructed to go to a measuring location at the sawmill by a TransportOtherInstructions.

**Scope:** 1 Logging area with 2 supply points, 1 ShipTo taking 2 products, 1 sequence for the ShipTo.

XML-file: UC01\_2.2\_DeliveryInstruction\_YYYY-MM-DD.xml

## 2.3 Business Acceptance

The Forest Company is selling saw logs to a Sawmill Company. The Forest Company is the buyer of the transport services. The Forest Company sends a Delivery Instruction to the Transport Company to instruct delivery of saw logs to the sawmill. The Transport Company accepts to carry out this instruction by responding with a Business Acceptance.

**Scope:** Acceptance of the Delivery Instruction.

XML-file: UC01\_2.3\_BusinessAcceptance\_YYYY-MM-DD.xml

## 2.4 Inventory Status

The Forest Company is selling saw logs to a Sawmill Company. The Forest Company is the buyer of the transport services. The Forest Company sends an Inventory Status to the Transport Company to inform about inventory at supply points of the logging area.

**Scope:** One logging area with two supply points, one supply point with one product (line item 1) and one supply point with two products (line items 2 and 3)

XML-file: UC01\_2.4\_InventoryStatus\_YYYY-MM-DD.xml

## 2.5 Delivery Message

The Forest Company is selling saw logs to a Sawmill Company. The Forest Company is the buyer of the transport services. The Transport Company is sending a Delivery Message to the Forest Company when the truck is loaded at the logging area.

**Scope:** The truck is loaded with one product from one supply point at the logging area.

XML-file: UC01\_2.5\_DeliveryMessage\_YYYY-MM-DD.xml

## 2.6 Delivery Message Forest Company

The Forest Company is selling saw logs to a Sawmill Company. The saw logs are delivered by truck to the sawmill. The delivery should be measured at a measuring location at the sawmill. The Forest Company sends a Delivery Message to the Measuring Company to advise a truck load of saw logs before the truck arrives to the measuring location. This document contains a reference to the Delivery Message issued by the Transport Company.

**Scope:** The truck is loaded with one product from one supply point at the logging area.

XML-file: UC01\_2.6\_DeliveryMessage\_ForestCompany\_YYYY-MM-DD.xml

## 2.7 Shipment Status

The Forest Company is selling saw logs to a Sawmill Company. The saw logs are delivered by truck to the sawmill. The truck sends a Shipment Status to the Transport Company as a proof of delivery and with actual transport information as a base for billing of the transport.

**Scope:** The truck reports transported quantity, distance with load and unloading waiting time.  
**XML-file:** UC01\_2.7\_ShipmentStatus\_yyyy-mm-dd.xml

## 2.8 Measuring Ticket

The Forest Company is selling saw logs to a Sawmill Company. The Forest Company is the buyer of the transport services. The Forest Company sends a Delivery Message to the Measuring Company to advice a delivery that should be measured. The Measuring Company sends a Measuring Ticket type MeasuringTicket to the Forest Company when a product on a line item of the Delivery Message is measured. One Measuring Ticket will be issued for each Delivery Message line item. Delivered logs are measured log by log .

**Scope:** The delivery contains one product from one supply point at the logging area. Measured logs are sorted and grouped into two specific products depending on the quality of the logs. Rejects because of Forest Rot are reported as a third product.  
**XML-file:** UC01\_2.8\_MeasuringTicket\_yyyy-mm-dd.xml

## 2.9 Measuring Ticket Forest Company

The Forest Company is selling saw logs to a Sawmill Company. Saw logs are delivered by truck. Billing of transport costs are based on measured quantities of the delivery. The Forest Company sends a Measuring Ticket type MeasuringTicket to the Transport Company with information about measured quantity for one line item of the Delivery Message for the truck load. One Measuring Ticket will be issued for each Delivery Message line item.

**Scope:** The Forest Company reports measured quantity for the truck load with one product identified by the DeliveryMessageNumber and DeliveryMessageLineItemNumber.  
**XML-file:** UC01\_2.9\_MeasuringTicket\_ForestCompany\_yyyy-mm-dd.xml

## 2.10 Invoice Logistics

The Forest Company is selling saw logs to a Sawmill Company. The Forest Company is the buyer of the transport services. Saw logs are delivered by truck. Billing of transport costs are based on measured transported quantities. The Transport Company sends an Invoice to the Forest Company for payment of the transport costs.

**Scope:** The Transport Company sends a logistics invoice for one truck load identified by the DeliveryMessageNumber. Freight cost, loading/unloading handling and unloading waiting time are invoiced.  
**XML-file:** UC01\_2.10\_Invoice\_Logistics\_yyyy-mm-dd.xml

## 2.11 Measuring Ticket InvoiceSpecification

The Forest Company is selling saw logs to a Sawmill Company. When invoicing the products, the Forest Company sends to the Sawmill Company a detailed specification of the Invoice as a Measuring Ticket type InvoiceSpecification. All deliveries are measured and invoiced products are specified in detail with quantities, amounts and additions/deductions. The Measuring Ticket type InvoiceSpecification contains a reference to the legal invoice.

**Scope:** The Invoice Specification contains a specification of two measured deliveries to the Sawmill Company. Each delivery contains one manufactured product. Measured logs are sorted and grouped into three specific products depending on the quality of the logs whereof one product is rejects because of Forest Rot. Measurements per log are not specified. Freight costs are specified per measured manufactured product. Two sequences, one with 3 line items and one with 2 line items.  
**XML-file:** UC01\_2.11\_MeasuringTicket\_InvoiceSpecification\_yyyy-mm-dd.xml

## 2.12 Invoice

The Forest Company is selling saw logs to a Sawmill Company. The Forest Company sends to the Sawmill Company a legal Invoice for payment of delivered products to the sawmill. The Invoice contains a reference to a Measuring Ticket type InvoiceSpecification that in detail specifies items in the Invoice. The version of the Measuring Ticket is specified by its issue date and time.

**Scope:** Two deliveries of saw logs are invoiced. The Invoice contains three line items with saw log products and one line item with freight charges.

XML-file: UC01\_2.12\_Invoice\_yyyy-mm-dd.xml

## 2.13 Business Acknowledgement

It is recommended to use papiNet e-document Business Acknowledgement as a system acknowledgement for all received papiNet e-documents. An e-document receiver uses the Business Acknowledgement to notify the sender that a document has been successfully presented to the receiver's ERP system. The Status with value Success or Failure specifies whether the document content has been validated without or with errors when presented to the receiver's ERP system.

**Scope:** The Transport Company sends an Invoice to the Forest Company for payment of the transport costs. The Forest Company notifies the Transport Company that the Invoice has been presented to the ERP system and validated without errors by responding with a Business Acknowledgement.

XML-file: UC01\_2.13\_BusinessAcknowledgement\_yyyy-mm-dd.xml

## 2.14 papiNet Envelope

papiNet e-documents are recommended to be wrapped into the papiNet Envelope before they are sent. The xml-file that is sent to the receiving partner consists of the papiNet Envelope and the papiNet e-document. Routing and processing of e-documents are much easier to implement in a consistent way by using the papiNet Envelope. Attachments to the papiNet e-document can also be wrapped and sent in the papiNet Envelope. Additional transmission envelopes can be used by the message service when transmitting the message.

**Scope:** The Transport Company sends an Invoice to the Forest Company for payment of the transport costs. The Forest Company has outsourced its IT services to an IT Company. The receiver of the transmitted message is the IT Company, i.e. the Transmission Receiver in the papiNet Envelope. The Receiver Party in the Invoice e-document is the Forest Company.

XML-file: UC01\_2.14\_papiNetEnvelope\_yyyy-mm-dd.xml