



SKOG-DATA AS

VSYS VirkesHandel

Business IT solution for the
Forest Wood Supply Chain

Topics

- VSYS VirkesHandel (Forest Wood Supply trading)
- Master Data
- Interaction applications in the VSYS family
 - Measuring
 - Transport
 - Economy
- Further plans

VSYS VirkesHandel (WoodTrade)

WoodTrade handles planning and accomplishment of purchase, production and sales of raw materials in the forest wood supply chain.

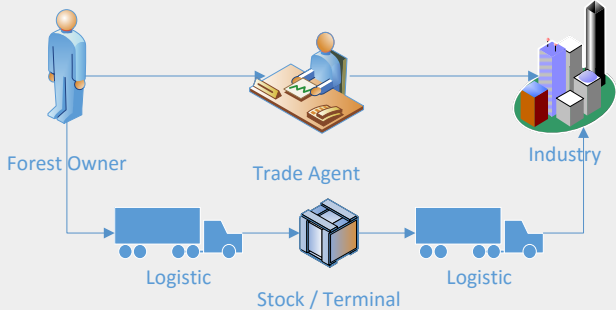
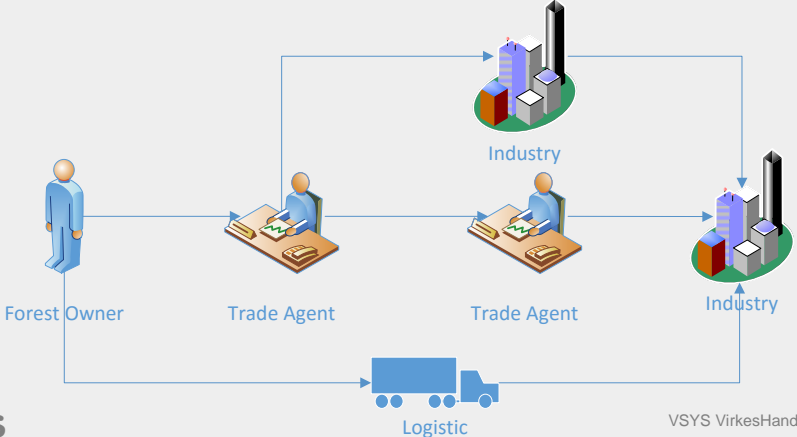
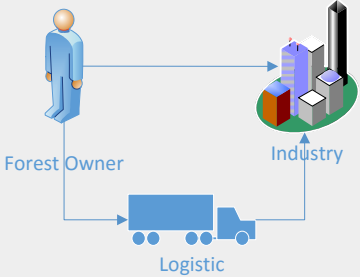
Why?

- Current application from 1990
 - Strong connections to other modules
 - Old architecture – all users in one database
 - Developed in Progress (staffing limitations)
 - Limitations related to new business models
- Customer demands
 - Open architecture
 - API for interaction with customer applications
 - Support new business models
 - Interact with 3. party trading applications

The Project

Feasibility study	2014
Development	2015 – 2016
Pilot	Oct / Nov 2016
Release (production first group)	1.1.2017

Business Models

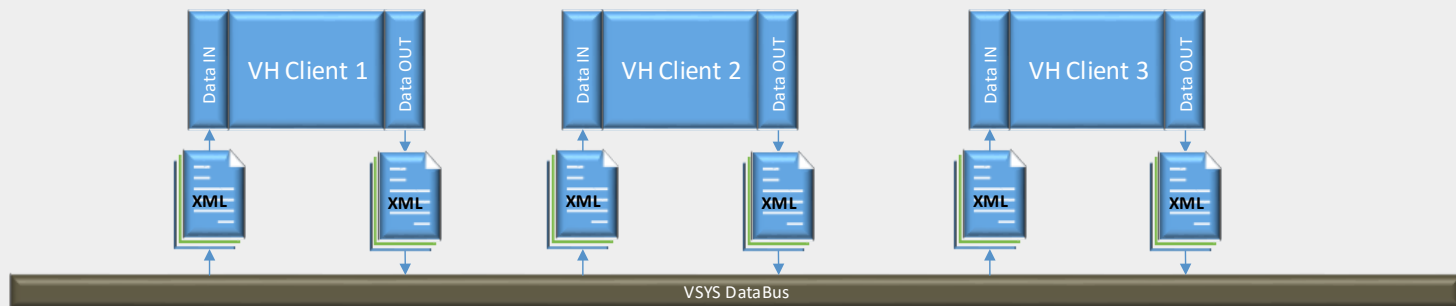


General

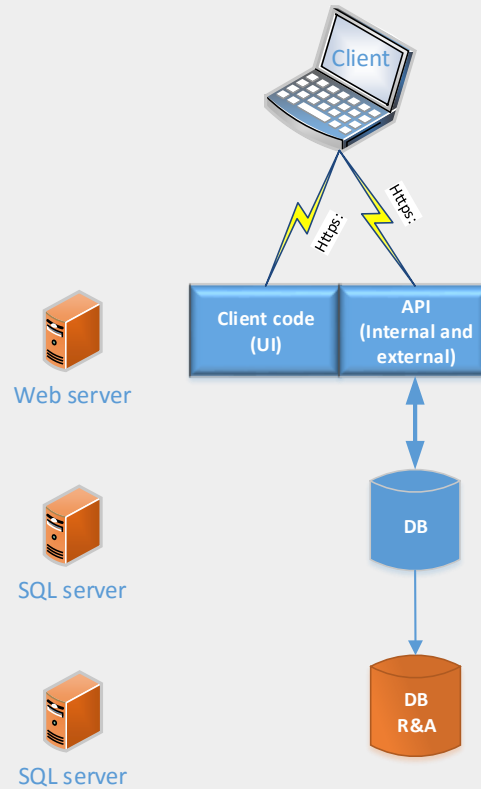
- Based on traditional commercial activity
 - Purchase Order and Sales Order for every party in the business chain
- Distinguish business and logistics
 - Goods may be resold several times – delivery from consignor to consignee
- Trace deliveries back to origin
- Replicated DB for R&A (Reporting and Analyses)
- External API for 3.party applications

Client based

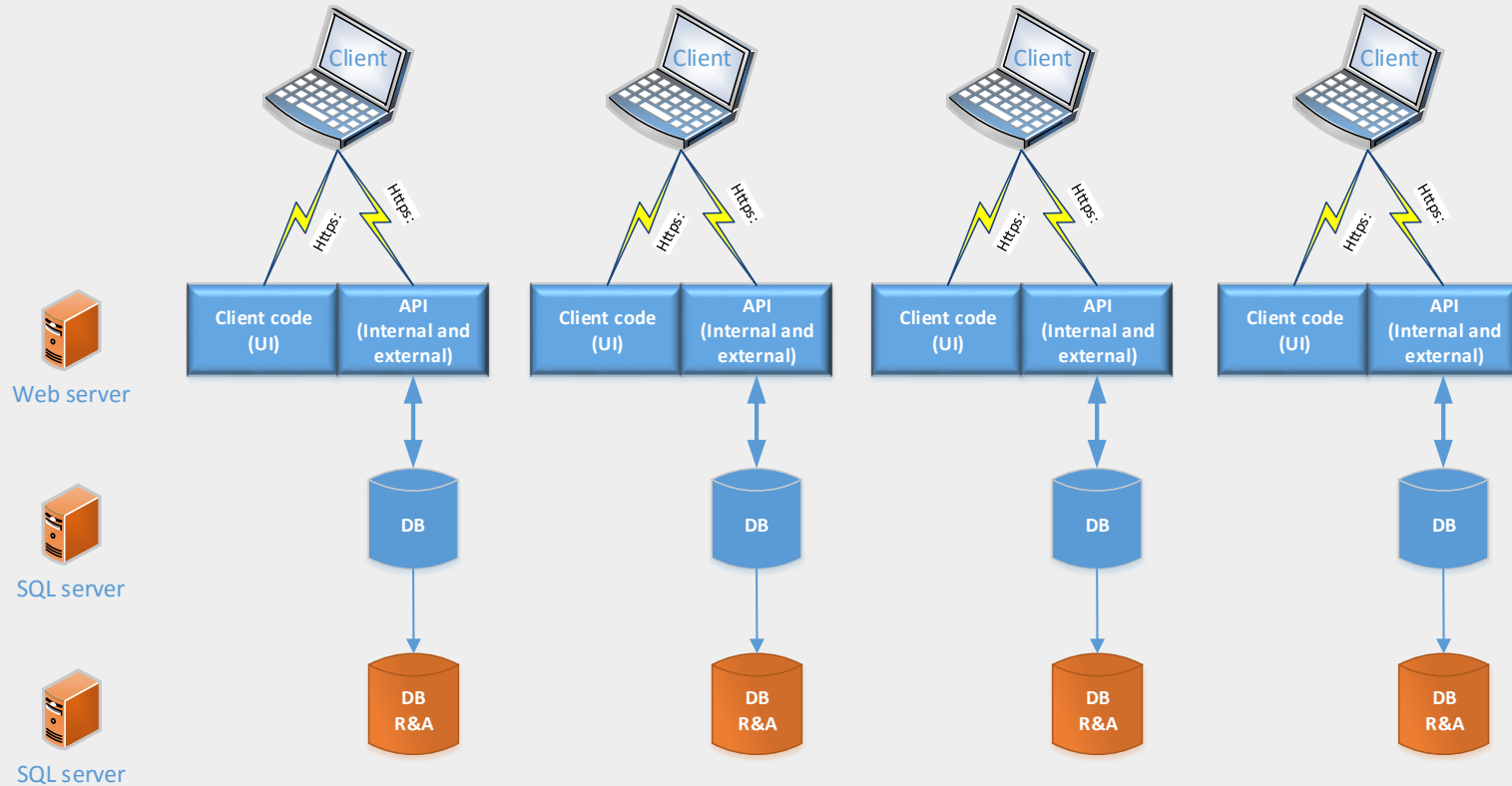
- Every client – separate/isolated system
- Data exchange between clients by asynchronous messages (papiNet Standard)



Client installation



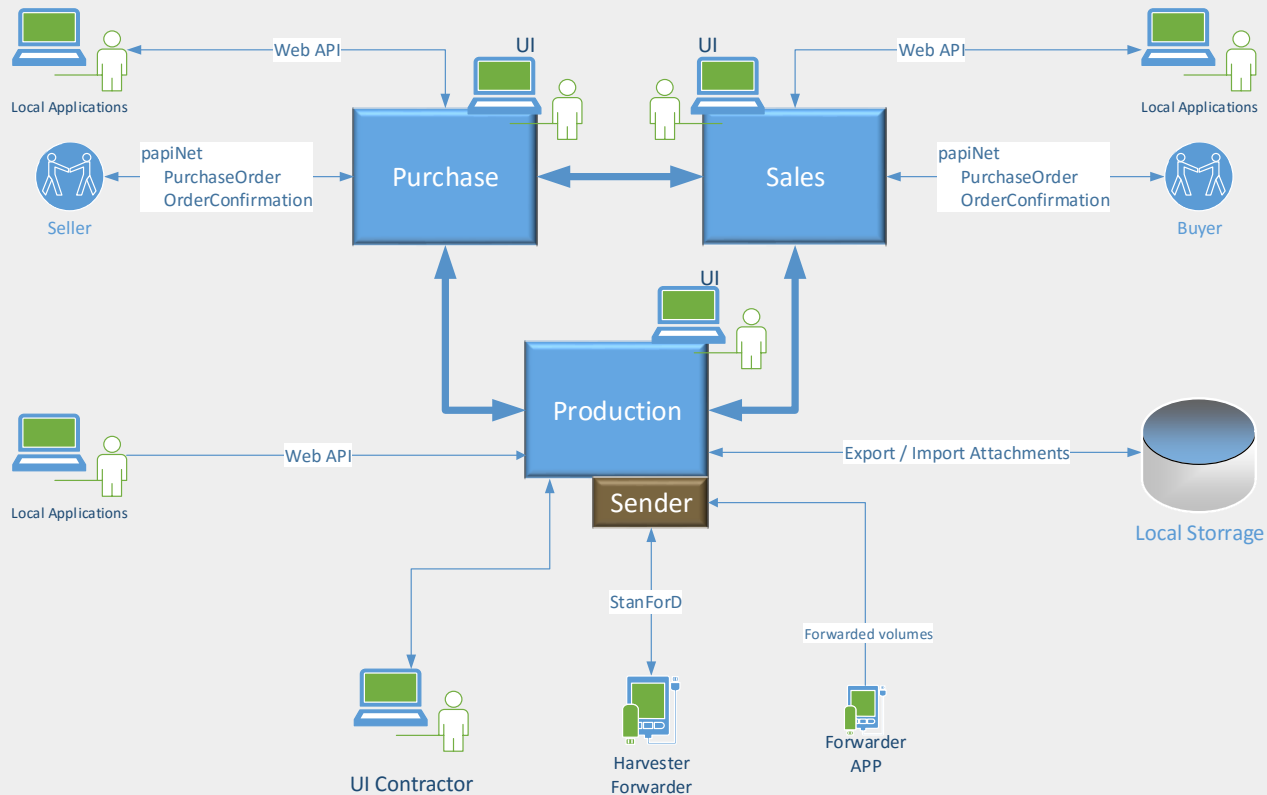
Operations multiple Clients



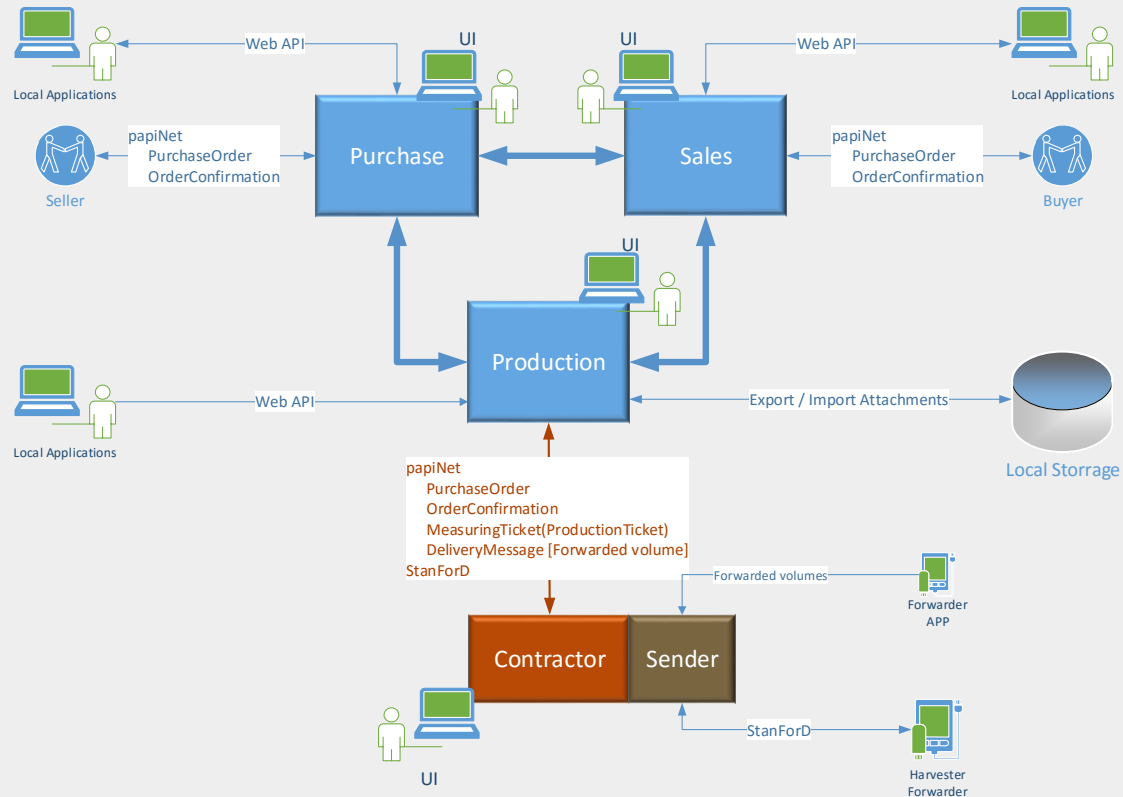
Operations

- Microsoft Azure
- MS SQL 2016
 - Multi Tenant database architecture
 - Tenant ID og RLS (Row Level Security)

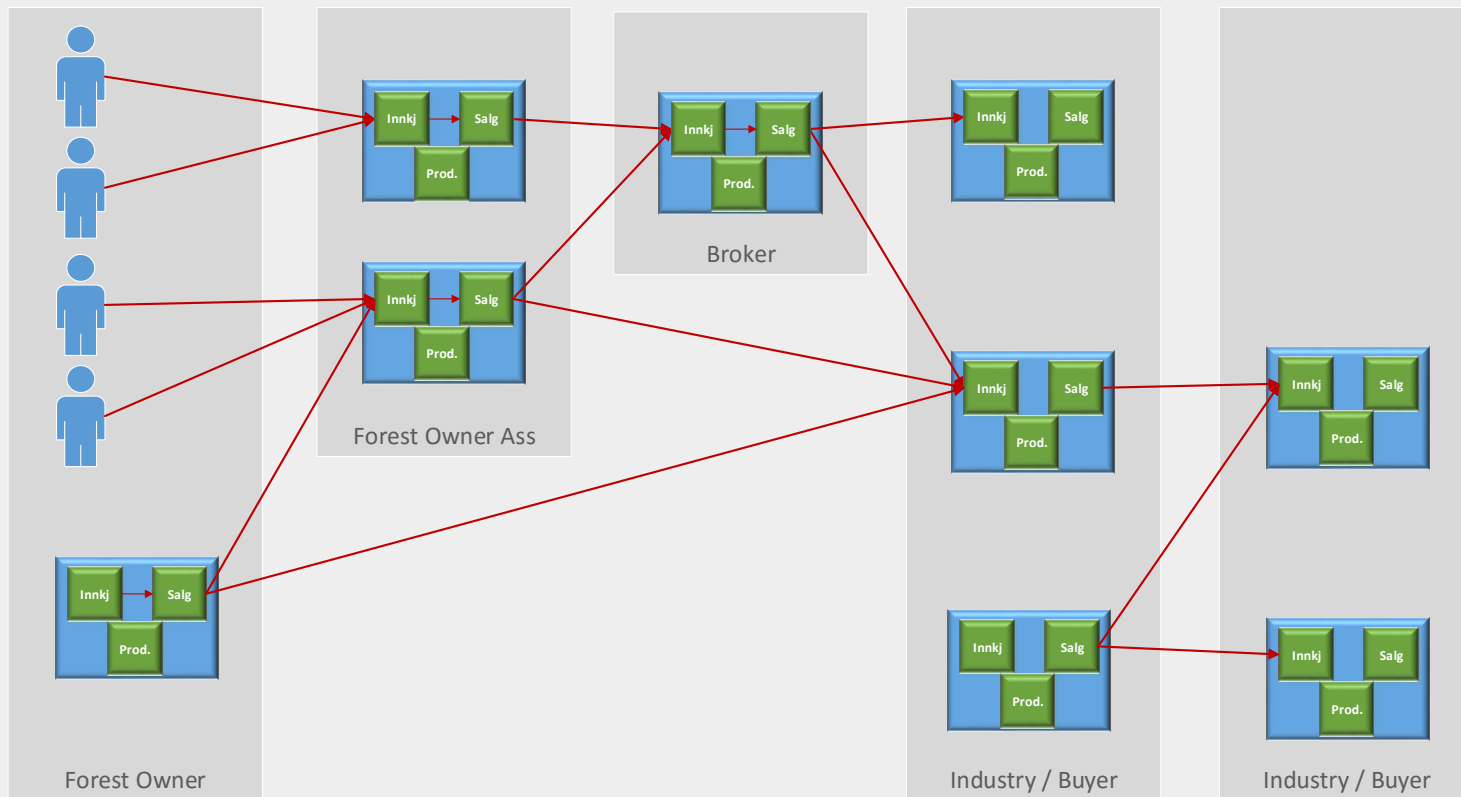
Technical overview



Technical overview – external Contractors



VH in the value chain



Purchase module (VH-I)

- Handles the purchase process
 - Create / edit purchase order
 - Link deliveries from purchase order to sales order
 - Monitor order
 - Harvested and forwarded volumes
 - Delivery Messages (transported volumes)
 - Measuring Tickets (measured volumes)
- Basic data for supplier settlement (self billing) – suppliers without IT system
- Measuring Instruction and Delivery Instruction

Sales module (VH-S)

- Handles the sales process
 - Create / edit sales order
 - Link deliveries from purchase order to sales order
 - Monitor order
 - Delivery Messages (transported volumes)
 - Measuring Tickets (measured volumes)
- Basic data for invoicing
- Measuring Instruction and Delivery Instruction

Production module (VH-P)

- Plan and manage production
- Allocate Contractor to assignment
 - Send orders to external contractors
- Receive and store data from harvesters and forwarders
 - Update purchase orders and sales orders
- Monitor production process
- Export StanForD files to local applications
- Basic data for contractor settlement (self billing) – contractors without IT system or own production

Benefits

- Information entered once
 - Purchase Order sent as e-document to seller and becomes Sales Order
- Deliveries from several purchase orders can form the delivery to the buyer (sub deliveries)
- Trace deliveries back to origin
- Every client (organisation) has it's own database

Benefits

- Integration to measuring and/or transport applications through standard papiNet e-documents
- Hosted by Skog-Data in Microsoft Azure using Azure AD for authorisation
- Runs in a web browser
 - Responsive
 - Runs on PC, tablet or phone

Benefits

- Several measuring point
 - Harvested, Forwarded, Released, Transported, Measured



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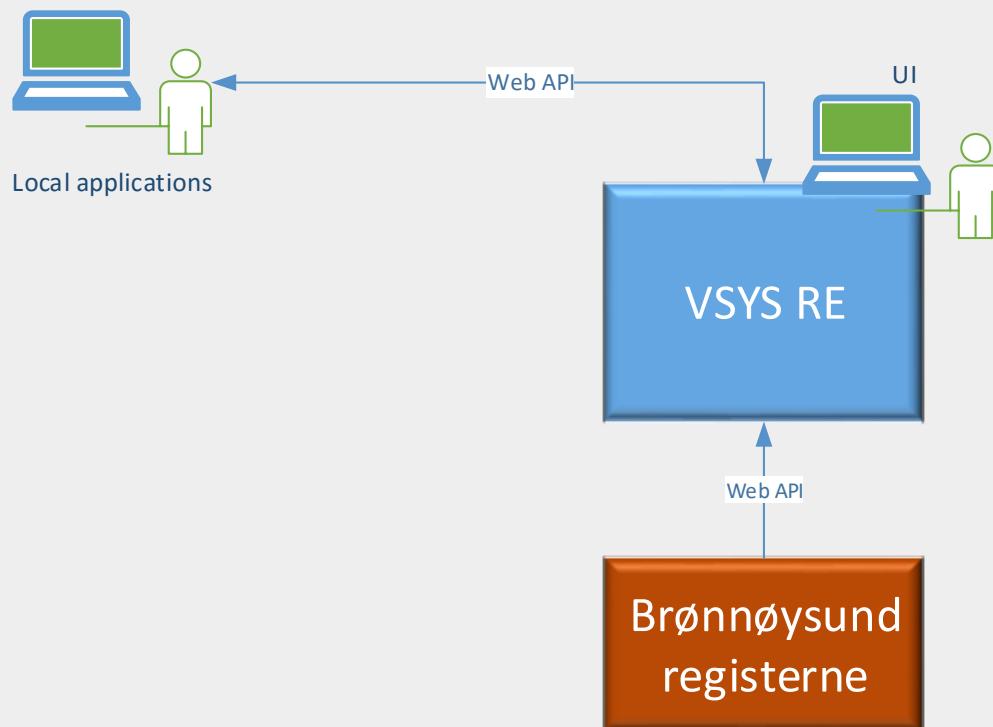
VSYS Register

Master Data

General

- One source for all users (Master Data for Norway)
- Information entered once
- Access through API (Web Service)
- Organisations
 - One organisation – different roles
 - Buyer, Seller, Measuring party, Forest Owner, Contractor etc.
 - Business Register Number as ID
- Products
- Loactions
 - Origin, Delivery

Technical overview



Applications in the VSYS family

Interactions

VSYS Renewal Plans

Plans for modernisation/replacement

VSYS Economy	
Prestudy	Ongoing
Release	2017
VSYS Measuring	
Prestudy	2017
Release	2018
VSYS Transport – Drivers APP	
Prestudy	2016
Release	2017