

# Welcome

## Time tracking and production data acquisition with NFC tags for Odoo



## Odoo Experience 2015



# Martin Schmid

- **47 Jahre - married**
- **Living in Knittlingen near Stuttgart**
- **Managing Director of Equitania Software GmbH**
- **Head of IT cmc group**
- **Certified SCRUM Master**
- **Examiner at the Chamber of Commerce Northern Black Forest for IT specialists**

# Who we are

- **Software vendor since 1995**
- **Primary place Pforzheim - South Germany**
- **ISO DIN EN 9001 certified**
- **A company of the cmc Gruppe**
- **cmc group near 200 employees**
- **12 programmers in Pforzheim / 180 in Chennai/India**



# cmc group



cmc Klebetechnik



colorit



cmc films



coloprint



cmc maschinenbau



coloprint techfilms



ID Ausweissysteme

Limburgerhof



Düsseldorf



Pfalz



Frankenthal





#### Standorte in Deutschland



 **Equitania**  
SOFTWARE GMBH  
Ein Unternehmen der cmc Gruppe

  
Chennai, India

# Agenda

**1. Hardware**

**2. Software**

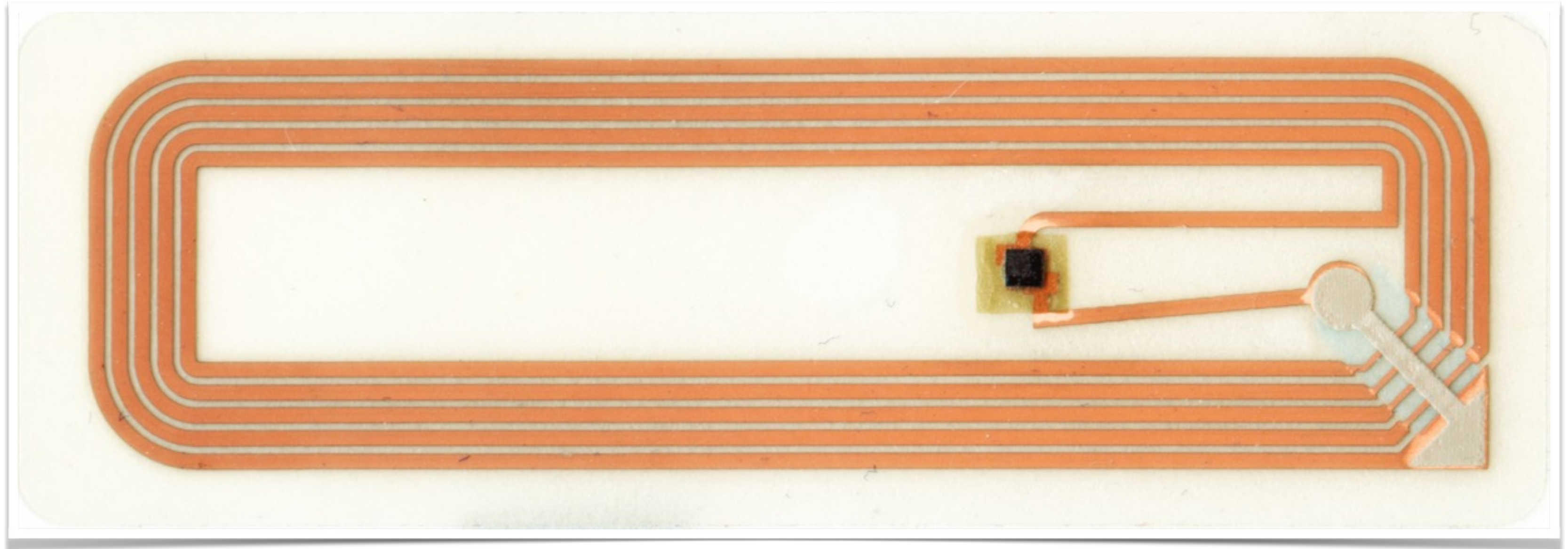
**3. Odoo Integration**

# 1

# Hardware



# NFC Tags



## Near Field Communication



# NFC Tags



**Store depend on chip up to 139 byte**

# NFC Reader/Writer

All ▾

nfc usb

Q

Shop by Department ▾

Your Amazon.com Today's Deals Gift Cards Sell Help

Hello. Sign in Your Account

Office Products Office Deals Printers Ink & Toner Office Electronics School Supplies School Lists Pens & Writing Calendars & Planners Shipping & Moving

◀ Back to search results for "nfc usb"

Andoer NFC ACR122U RFID Contactless Smart Reader & Writer/USB + SDK + Mifare IC Card

by Andoer

★★★★★

2 customer reviews

Price: **\$43.23** & **FREE Shipping**

Only 3 left in stock.

Ships from and sold by Makaba Worldwide Shipping.

Estimated Delivery Date:

June 30 - July 17 when you choose Standard at checkout.

- Note: We provide the SDK software. If you have bought this item, just contact us and we will send it to you!
- Support ISO 14443 Type A & B cards - MIFARE® cards (Classics, DES Fire). CCID standard.
- CE and FCC certificated, and RoHS compliant.
- NFC tags access speed = 424kbps.
- Contactless smart card reader. Support FeliCa card.

5 new from

\$40.26

School Lists

Teachers,

create and share supply lists

Click to open expanded view

News Über uns Partner Jobs Support Kontakt Impressum

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# 2

# Software



# Software

**1. XMLRPC**

**2. Mapping with C#**

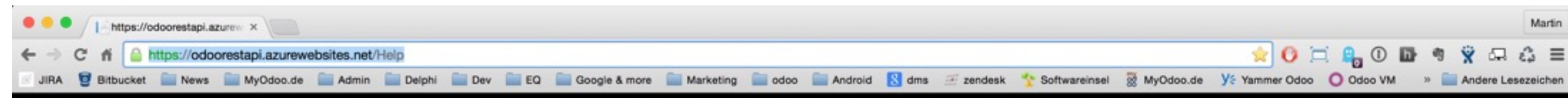
**3. REST-API**

**4. ASP.NET**

**5. Based on this also a permanent migration service for Odoo**

# REST-API:

## <https://odoorestapi.azurewebsites.net/Help>



### REST-API for OpenERP/Odoo

#### Introduction

REST-API for Open Source System OpenERP/Odoo ( [www.odoo.com](http://www.odoo.com) ) enables you to access and manipulate data of an OpenERP/Odoo system via REST web services. This wrapper is build with c# .Net 4.0 and <https://www.nuget.org/packages/WebApiTestClient> . It can host on Microsoft platforms with IIS and so also on Microsoft Azure. It is not necessary to install for each Odoo instance a own REST-API instance. This service can handle more than one Odoo instance.

If your Odoo instance is behind a firewall and you need the installation on your server, please contact us.

Use the login function to obtain an authentication token which is required to access the other webservice functions.

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[www.equitania.de](http://www.equitania.de) / [info \(at\) equitania.de](mailto:info@equitania.de) / [www.myodoo.de](http://www.myodoo.de)  
[Equitania Impressum](#)

Version: 1.1.3 from 23.01.2015

#### CommonServerEnvironment

API	Description
<a href="#">GET api/CommonServerEnvironment?url={url}</a>	Returns information about the server environment

#### CommonTimezoneInfos

API	Description
<a href="#">POST api/CommonTimezoneInfos</a>	Returns the server's timezone.

#### Common

API	Description
-----	-------------

# 3

## Odoo Integration



# DEMO

# Automatic fill out Excel template

The screenshot shows a web browser window displaying the myodoo.de interface. The browser title is "WinB.1x64-MS" and the address bar shows "odoo\_excel2order". The myodoo.de logo is visible in the top left corner. Below the logo, there are two buttons: "Fill excel with odoo data" and "Import excel order". The main content area displays an Excel spreadsheet titled "Kundenmappe\_Agrolait\_10000\_05.06.2015.xlsx - Excel". The spreadsheet has a table with columns "Felder" and "Inhalt". The data in the table is as follows:

Felder	Inhalt
Kundennummer	10000
Kundenname	Agrolait
Strasse	69 rue de Namur
Strasse-Zusatz	
PLZ	1300
Ort	Wavre
Telefon	+32 10 588 558
Fax	
Mobil	
Homepage	http://www.agrolait.com
E-Mail	agrolait@yourcompany.example.com
Verkäufer	
Preisliste	Public Pricelist (EUR)

The spreadsheet is displayed in a window titled "Kundenmappe\_Agrolait\_10000\_05.06.2015.xlsx - Excel". The window has a menu bar with options like "DATEI", "START", "EINFÜGEN", "SEITENLAYOUT", "FORMELN", "DATEN", "ÜBERPRÜFEN", "ANSICHT", and "TABELLENTWURF". The status bar at the bottom of the window shows "BEREIT".

## Customer data for offline sale processes

# Also all products from customer price list

Win8.1x64-MS  
odoo\_excel2order

File Language

myodoo.de  
Das neue OpenERP

Fill excel with odoo data  
Import excel order

Kundenmappe\_Agrolait\_10000\_05.06.2015.xlsx - Excel

TABELLENTOOLS  
ENTWURF

F5

myodoo.de  
Das neue OpenERP

Bestellung

Produktnr.	Produktname	Mengeneinheit	Einzelpreis	Währung	Menge	Summe
A1232	iPad Mini	Unit(s)	320,00	EUR	3	960,00
A2323	iPad Retina Display	Unit(s)	750,00	EUR	3	2.250,00
						0,00
						0,00
						0,00
						0,00
						0,00
						0,00
						0,00
						0,00
						0,00
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						0,00
						0,00
						0,00
						0,00

Kundendaten Bestellungen

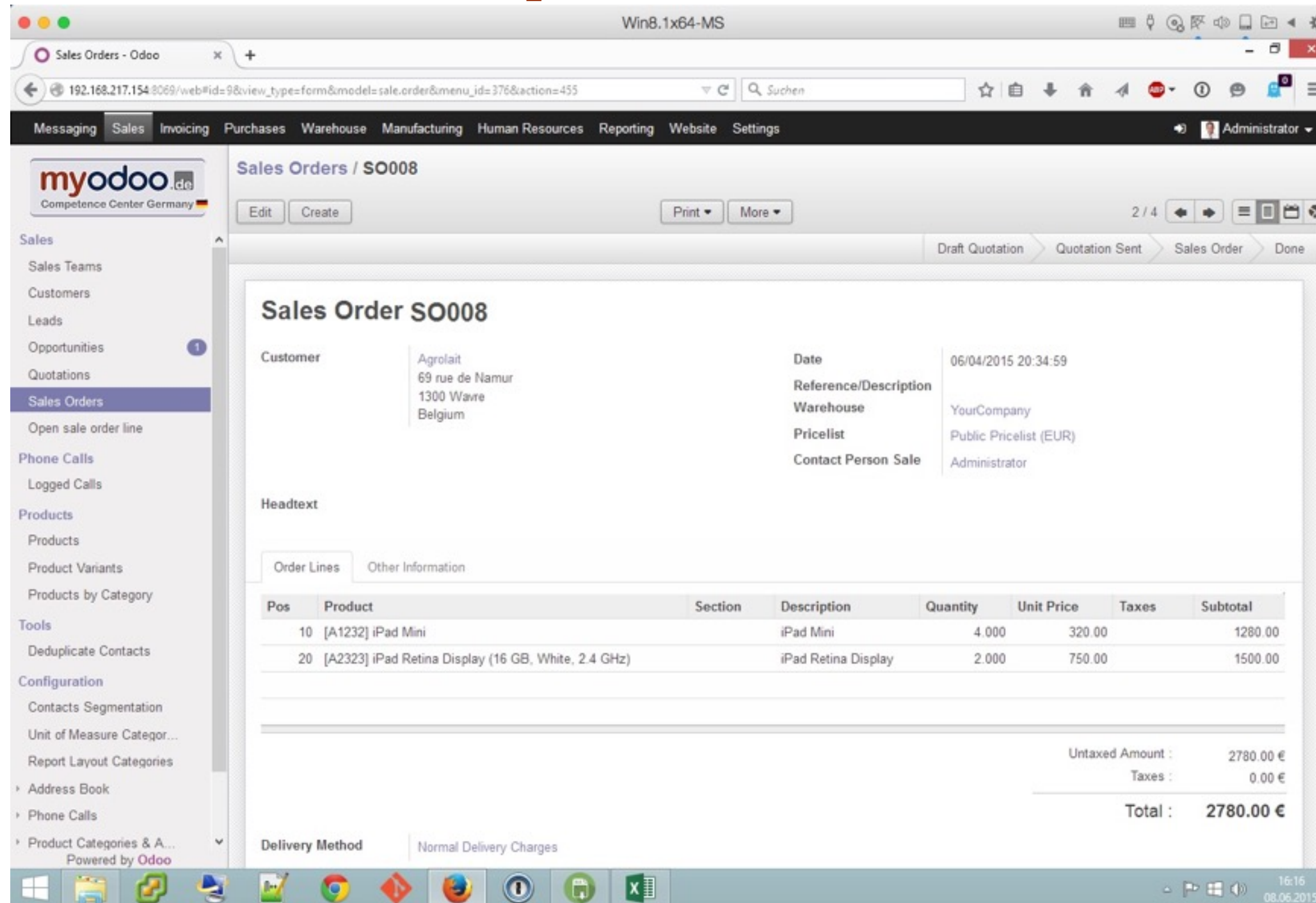
BEREIT

16:09  
08.06.2015

## Write your sales and reimport in Odoo

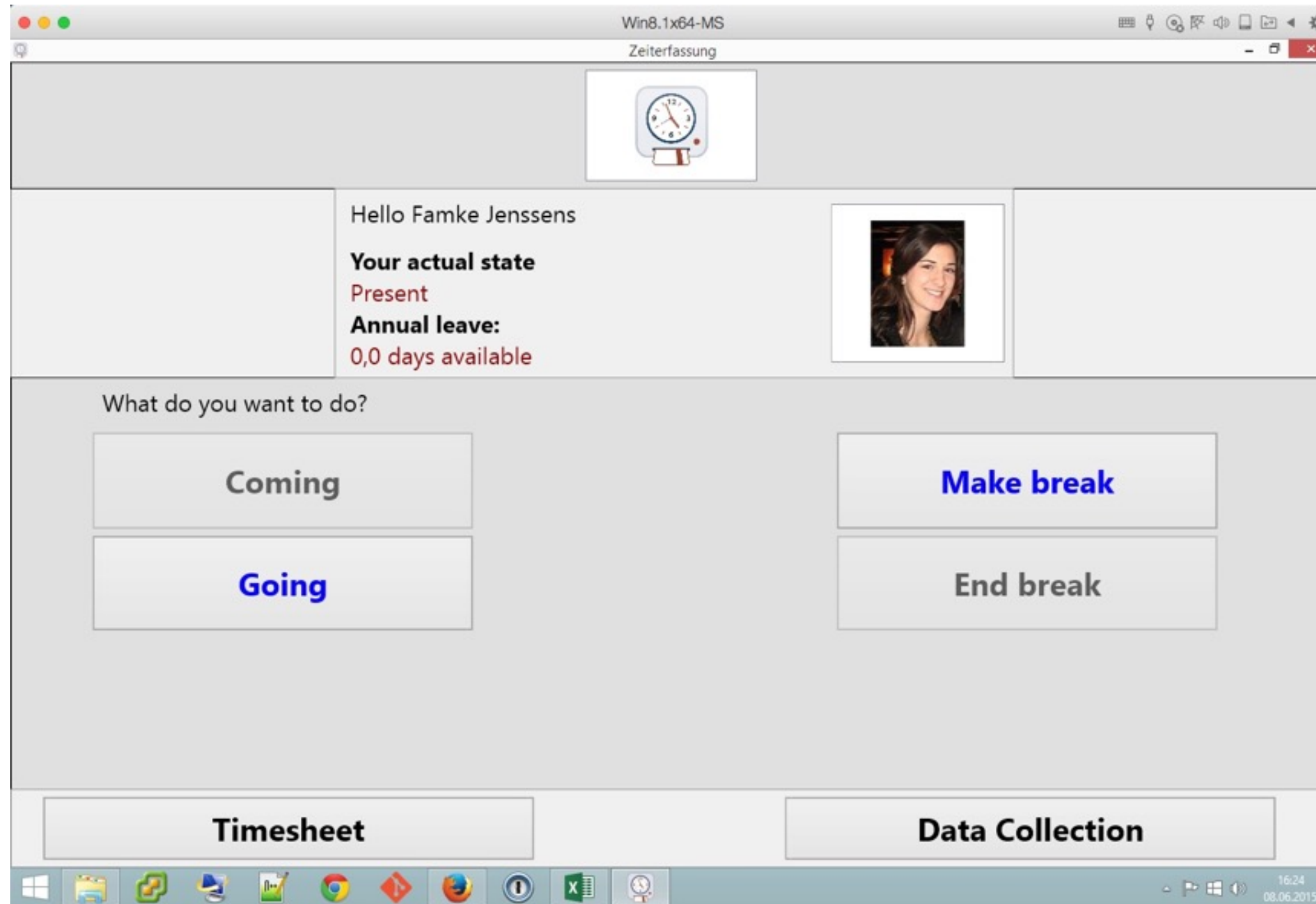


# App create a complete sale order



## You need office installation

# Time tracking for employees



## Only with one NFC tag

# Access also to manufacture of Odoo

Win8.1x64-MS

Zeiterfassung

You currently have the following operations in progress:

Coming	Workplace	Description
MO00001	Assemble	Manual Assembly - PC Bausatz SC234

Call operation

To start a new production order, please scan the barcode or enter the production order no.

Production order no.:

Timesheet Data Collection

16:06  
08.06.2015

## With NFC and barcode



# In the production order

Win8.1x64-MS  
Zeiterfassung

< Break      Production order no. MO00001

Product:	PC Assemble SC234
Product description:	PCSC234
Product quantity:	3,00 Unit(s)

Operation:	Assemble
Description:	Manual Assembly - PC Bausatz SC234
In progress since:	26.05.2015 15:24:54
Total work time:	-
Produce quantity:	2

Already produced quantity:	3
Amount currently produced:	<input type="text" value="0"/>
Total quantity produced:	3

Change quantity

Handed operation

Additional info

Stop operation

Timesheet      Data Collection

16:06  
08.06.2015

## Adds like quantity on work order

# More than one employee on work order

Win8.1x64-MS  
Zeiterfassung

< Break      Production order no. MO00001

Product: PC Assemble SC234  
Product description: PCSC234  
Product quantity: 3,00 Unit(s)

Operation: Assemble  
Description: Manual Assembly - PC Bausatz SC234  
In progress since: 26.05.2015 15:24:54  
Total work time: -  
Produce quantity: 2

Already produced quantity: 3  
Amount currently produced: 0  
Total quantity produced: 3

Change quantity

Handed operation

Arbeitsgang übergeben

To employee

Antoine Langlais

Submit      Cancel

Timesheet      Data Collection

16:07  
08.06.2015

## Handed operation to other workers

# Send message to mrp managers

The screenshot shows a Windows 8.1x64-MS application window titled "Zeiterfassung". The main interface displays production order details for "Production order no. MO00001".

**Production Order Details:**

- Product: PC Assemble SC234
- Product description: PCSC234
- Product quantity: 3,00 Unit(s)
- Operation: Assemble
- Description: Manual Assembly - PC B
- In progress since: 26.05.2015 15:24:54
- Total work time: -
- Produce quantity: 2
- Already produced quantity: 3
- Amount currently produced: 0
- Total quantity produced: 3

A "Zusatzinfo" (Additional Information) dialog box is open, allowing the user to send a message to the group "Fertigungsleitung" (Production Management) using the template "Maschine kaputt" (Machine broken). The text "Machine is damage" is entered in the text field.

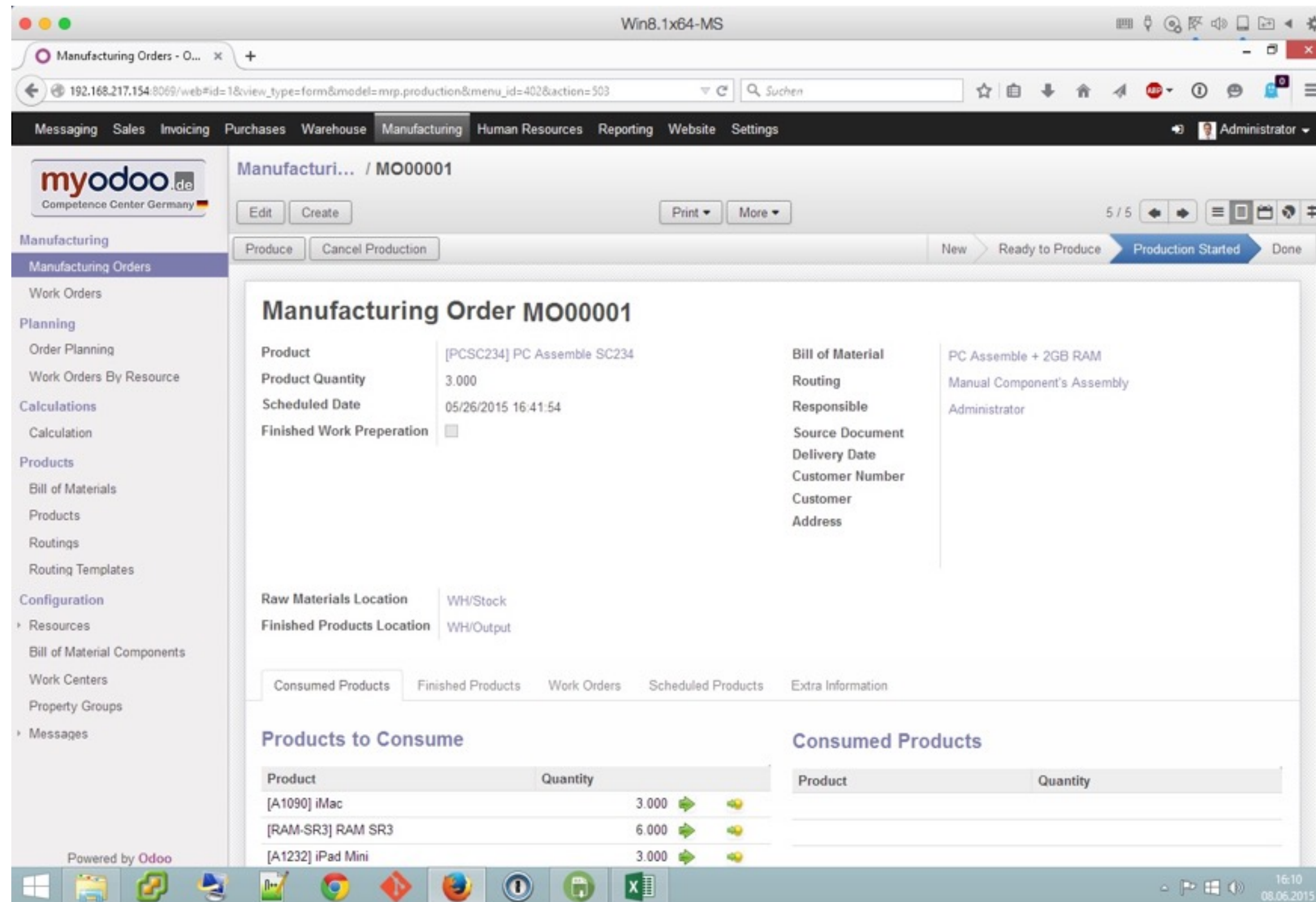
The dialog box includes "Submit" and "Cancel" buttons.

The main interface also features a "Change quantity" button and a "Timesheet" section at the bottom.

## With predefine templates



# Also enhancements in Odoo MRP



## Link to sale orders with customer details



# Odoo MRP - work order enhance

The screenshot displays the 'Open: Work Centers Utilization' window in the Odoo MRP module. The window is titled 'Manual Assembly - PC Bausatz SC234' and shows the 'In Progress' status. It includes a table for 'User Times' with columns for 'User', 'Total production time', and 'State'. The table lists two users: 'Administrator' with a time of 0.09 and 'Famke Jenssens' with a time of 240.95, both in a 'Running' state. Below the table, there are buttons for 'Stop' and 'Transfer work'. The 'Number of Hours' is 07:08, 'Ordered quantity' is 0.00, 'Total Production Time' is 241.04, and 'Delivered quantity' is 0.00. The window also shows a 'Close' button at the bottom left.

User	Total production time	State
Administrator	0.09	Running
Famke Jenssens	240.95	Running

Order	Quantity

## Multiple workers for time measurement

# Next steps

1. Use NFC also warehouse
2. BlueTooth LE > Beacons and iBeacons
3. Industrie 4.0 / Industrial Internet
4. ..

# Contact

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- **XING:** [https://www.xing.com/profile/Martin\\_Schmid9](https://www.xing.com/profile/Martin_Schmid9)
- <http://www.myodoo.de>
- <http://www.equitania.de>
- **Blog:** [www.software-insel.de](http://www.software-insel.de)
- **Skype:** [equitania\\_ms](#)

# Thank You

**myodoo**.de

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