

Single mail client for Lotus Domino and MS Exchange with Liferay

Advanced features and a million open possibilities

Vladimir Vukadinovic,
PRODYNA AG



➤ Agenda:

1. PRODYNA AG
2. Single mail client idea
3. NABUCCO Groupware
4. DEILA framework
5. Liferay plugins package

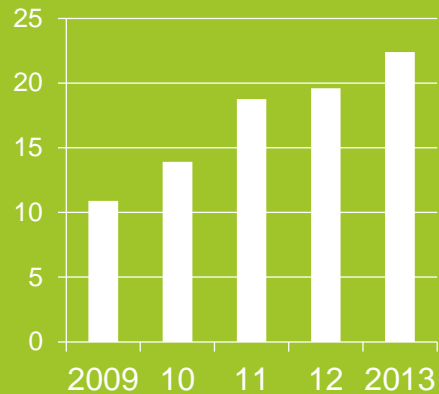
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PRODYNA AG

Key Facts

Growth



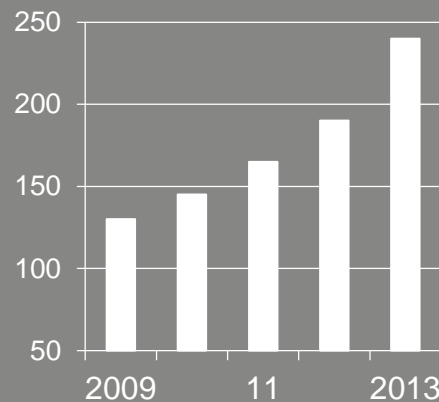
- Turnover FY 2013-2014: 27 Mio CHF
- Zero External Finance
- Privately held company

Locations



- Frankfurt am Main
- Hamburg
- Wolfsburg
- Düsseldorf
- Stuttgart
- München
- Basel (Swiss)
- Belgrad (Serbia)

Staff Development



- 240 Employees
- 15 Employees in back office
- No external staff

Focus

PMP Java / Java EE Portal Solutions CMS / DMS
 IT-Consulting SOA/ESB Web-Applications Mobile SCRUM
 Liferay CMMI Test Outsourcing COBOL MDA/MDD
 Alfresco Collaboration CPRE ISTQB Skill Management
 ITIL Test Automation Rich Clients

➤ PRODYNA AG

Open Source Partners

Enterprise Portals



Enterprise Web Content Management



Enterprise Service Bus / Data Integration



Enterprise Document Management



PRODYNA Reference

Enterprise Portal



Audi



BKW FMB Energie AG/SA



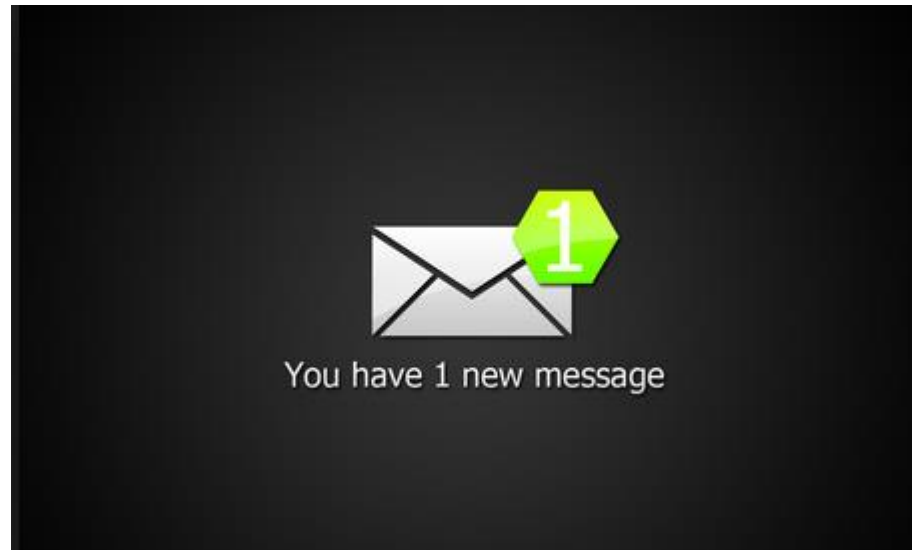
vodafone



➤ Agenda:

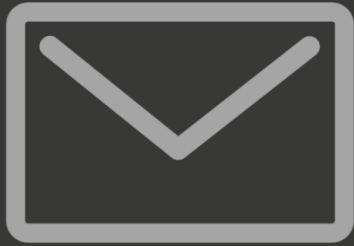
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➤ Why do we need single mail client?



➤ Customer requirements

- Single platform integration
- No expensive mail client license
- Central repository of assets
- Easy pluggable solution
- The most used mail services are Lotus Domino, MS Exchange, OpenMail



Mail



Calendar

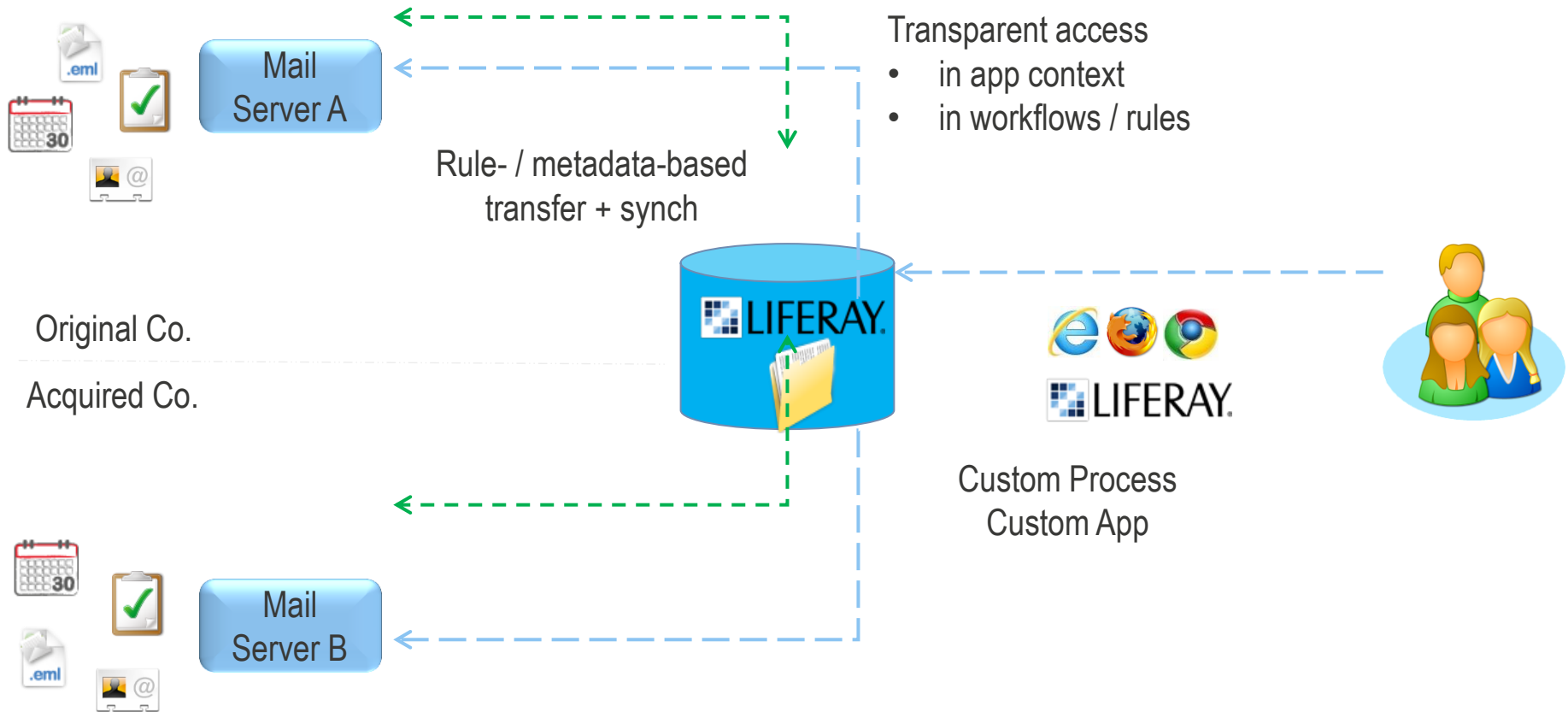


Contacts



Tasks

➤ Customer / user requirements



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➤ NABUCCO Groupware

Concept

Goal: enterprise-level integration layer for Groupware applications

- Based on host platform standards & technology
- Provide Liferay with an enterprise level integration layer for Groupware application
- Based on Liferay standards
- Looks and feels like Liferay
- Can be installed and configured in < 10mins
- Easily accessible for customization & custom processes
- Provide missing capabilities
- Distribute over the Liferay marketplace



Available for anyone

- Community users
- „Casual“ customers / end-users & large organisations
- System integrators / partners (of partners)

➤ NABUCCO Groupware

Modularity

- Domains & connectors based on subsystems
 - Connector specifies supported domains
 - Domain provides activation + Liferay services
 - Multiple connectors – instances & types
 - Admin may disable domain per connector

=> (Re-)configuration without restart



➤ NABUCCO Groupware for Liferay

Start Point

- IBM Lotus Domino
 - NCSO.jar
 - Remote, createSession()
 - Remote classes use CORBA architecture
 - Access the server over a TCP/IP
 - Two parts access over HTTP protocol

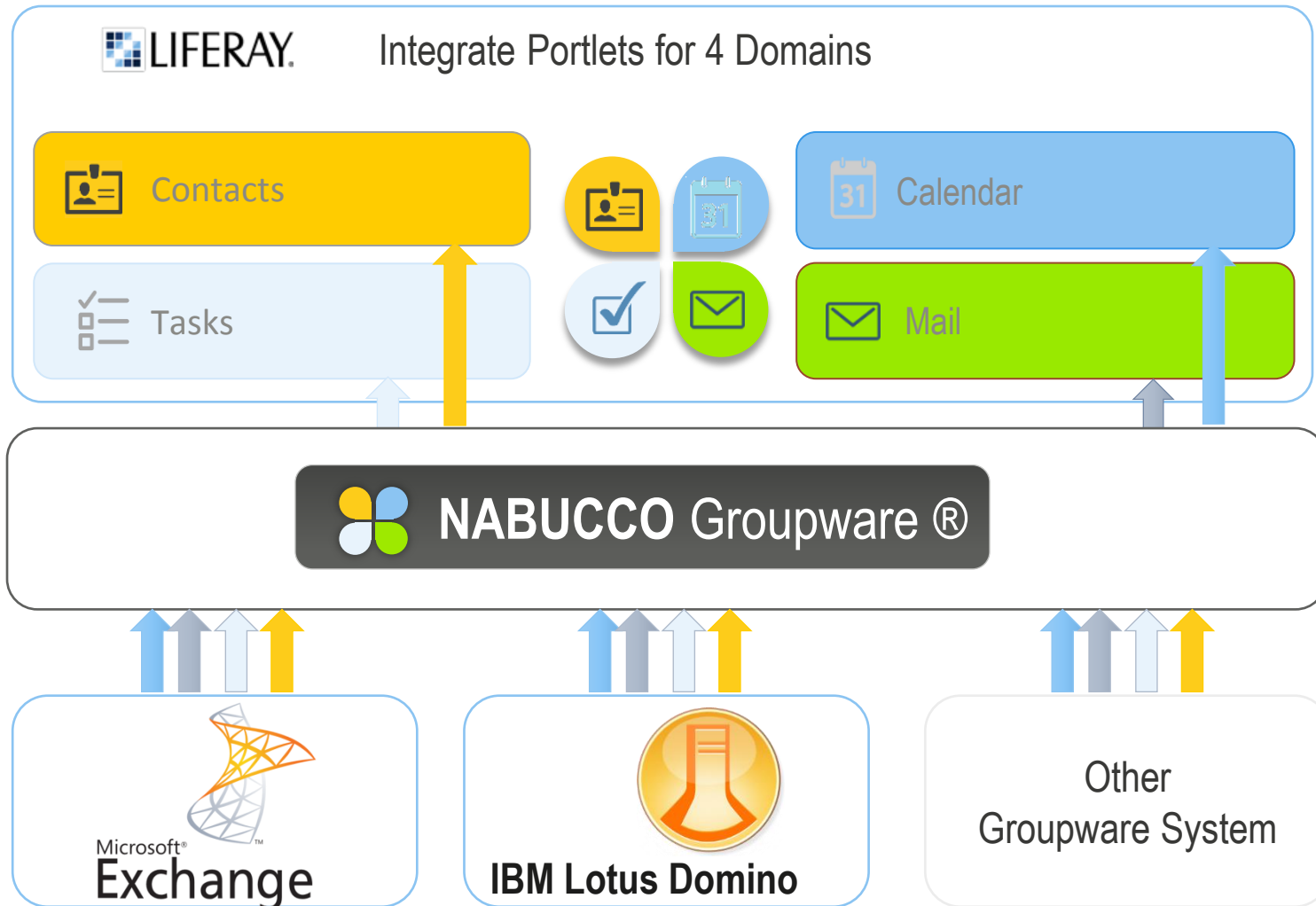


IBM Lotus Domino

- MS Exchange Server
 - Exchange Web Services (EWS) Java API
 - SOAP architecture
 - Ability to create/update/move/copy items and folders
 - Search items and folders
 - Send messages, send meetings requests and more



➤ How NABUCCO Groupware works:



➤ NABUCCO Groupware

Liferay integration

- Liferay portal platform
 - Authentication
 - Interportlet communication
 - Liferay API
 - Portlet 2.0
- Data Service Integration
 - Spring MVC
 - Service DI
- UI integration
 - AlloyUI components
- DEILA framework
 - Base framework
 - UI framework



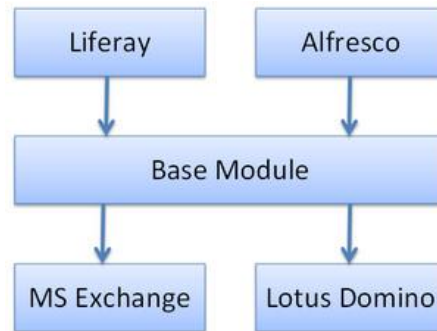
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➤ DEILA framework

- DEILA base framework

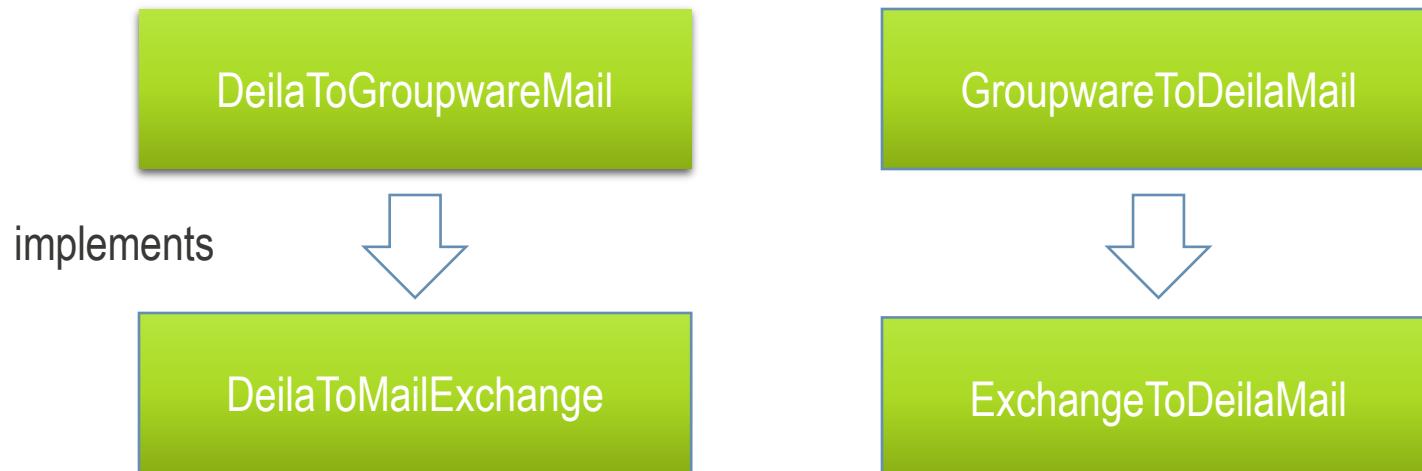
- Domain support (email, calendar, contacts, tasks)
- Groupware module (Liferay, Alfresco, MS Exchange, Domino...)
- Service composition
- Exception hierarchy
- Logging
- Service factory
- Object builder
- Data model



- UI DEILA framework

- Extends AlloyUI components
- Support DISH schema concept
- UI registry definition
- Java renderers

➤ DEILA object builders



➤ UI DISH Schema

Support DISH state and DISH Mode

deila-input-field.js

```
* Definition of the field "DISH"-State given the Form Modes:  
* "CREATE, EDIT, VIEW, SUMMARY". "DISH" stands for the quadruple  
* Disable-Inline-Summary-Hidden.  
*  
*
```

```
* @attribute dish
```

```
* @type Object
```

```
*/
```

```
    dishSchema : {  
        value : {},  
        setter : function(value) {
```

```
            if (value === false) {  
                return {
```


```
                    CREATE : [ true, false, false, true ],  
                    EDIT : [ true, false, false, true ],  
                    VIEW : [ true, false, false, true ],  
                    SUMMARY : [ true, false, false, true ]
```

```
                };  
            }  
        }  
    }  
};
```

➤ UI Dataflow

Details

Display Information

 **Display Name** Otávio Biasutti **Company** PRODYNA AG

Email obiasutti@prodyna.com **Profession** IT-Consultant

Full Name

Title Herr **First name** Otávio **Middle name** Humberto **Last name** Biasutti **Suffix**

Home Work Other

More details

Department **Job title** Software Engineer **Office** Eschborn **Manager** Hüseyin Cifci **Assistant**

Address

Street Ludwig-Erhard-Straße 12 **City** Eschborn **State** Hessen **Postal code** 65760 **Country** Deutschland

Postal address

Internet & Phones

Phone +49 69 597724-0 (1) **Fax** +49 69 597724-700 (1) **Website** http://www.prodyna.com (1) **Mobile** +49 171 7620552 (1)

Service

- Find groupware service

Render UI components



Renderer

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➤ Results

- The four domains of NABUCCO Groupware
- Can be used independently, or as a suite



Mail



Calendar



Contacts



Tasks

➤ Preferences

Liferay configuration

The screenshot displays the Liferay user interface with several configuration windows open. The background window shows the user's profile and a table of Exchange Server configurations. The 'Exchange Server configuration' window is in the foreground, showing a table with columns for Account name, Username, and Mailbox. The 'Groupware account configuration' window is the most prominent, showing the account name 'Exchange' and a dropdown menu for Groupware Configuration with options: PDEExchange (https://...), PDEExchange (https://...), Mock (127.0.0.1/gwmock), and Liferay configuration (127.0.0.1). The 'Liferay configuration' option is highlighted in blue.

| Account name | Username | Mailbox |
|--------------|-------------|---------|
| Demo ** | | |
| Exchange | dwainwright | |
| Liferay | 10904 | |

| Account name | Groupware Configuration |
|--------------|-----------------------------------|
| Exchange | PDEExchange (https://...) |
| | PDEExchange (https://...) |
| | Mock (127.0.0.1/gwmock) |
| | Liferay configuration (127.0.0.1) |

➤ Security and Passwords



➤ Mail: Feature overview



Manage accounts and mailboxes



Manage folders



Search
Advanced Search



Notifications



Email visualization:

- Preview
- List
- Table
- Full HTML



Send & receive attachments



Copy and move mail



Send and receive events



Send and assign tasks



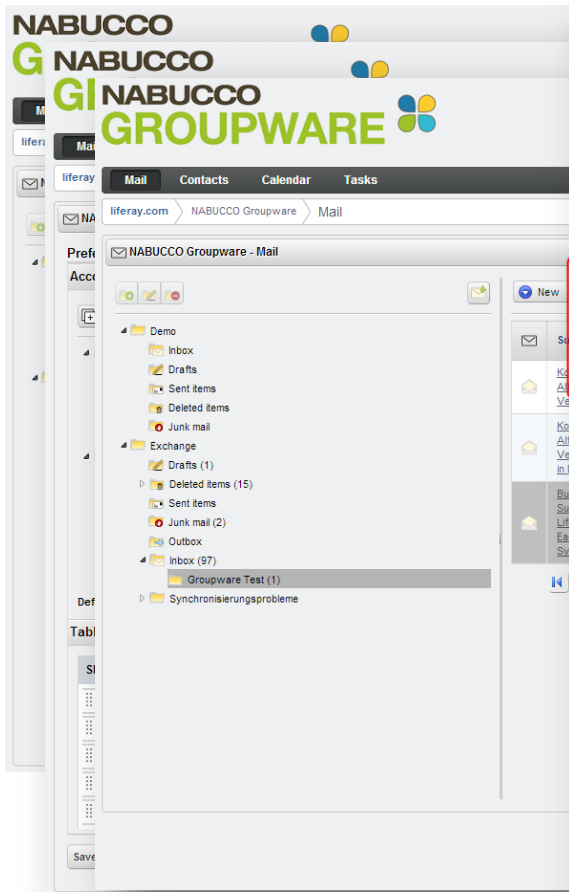
Autocomplete from addresses



Send business cards (eCards)

* Some features require all domains

➤ Mail



Details

Build on Your Success with Liferay at the East Coast Symposium!

Sender: Liferay
Recipients: David Wainwright
Receiving date: Apr 8, 2011 7:37:52 AM

Email not displaying correctly? [View it in your browser.](#)

Liferay East Coast Symposium

MAKE YOUR CONNECTION | MAY 10-11, 2011

Build on Your Success with Liferay!

Many of you heard about us at Gartner PCC. Now, meet the team and participate in an all-new format where you can meet others in the community and eco-system, as well as and participate in workshops and sessions designed to make you successful with Liferay.

Why You Should Attend

EVENT SNAPSHOT
Date: May 10-11, 2011

Location:
[The National Conference Center](#) in the Greater Washington D.C. area

Information:
Importance: Normal
Visibility: Normal

Multi Instances & Instance Specific Configuration

Mail Contacts Calendar Tasks MultiMail

liferay.com > NABUCCO Groupware > MultiMail

Personal InBox

New Sort By

- Demo
 - Inbox

| | | |
|--|--|-----------------------|
| Liferay Update: Weather EE Portlet - NOW AVAILABLE | customer-service@liferay.com (Liferay Support) | Jul 25, 2013 10:02 AM |
| Signavio Partner Mailing Juli 2012 | no-reply@salesforce.com (Salesforce Support) | Jul 19, 2013 11:35 PM |
| Newsletter Januar 2013 | al@prodyna.com (All) | Jan 16, 2013 3:10 AM |
| Webinar Einladung - Datenintegration von A bis Z | newsletter@talend.com (Talend) | Feb 28, 2013 11:59 PM |
| Test mail with rich text | obiasutti@della.dev (Otávio Biasutti) | Jul 1, 2013 4:31 AM |

(1 of 2) (Total 7) 5

Department InBox

New Sort By

- Exchange
 - Drafts (1)
 - Deleted items (15)
 - Sent items
 - Junk mail (2)
 - Outbox
 - Inbox (102)
 - Groupware Test (1)
 - Synchronisierungsprobleme

| Is read | Subject | Sender | Receiving date | Recipients | Actions |
|---------|--|------------------------|--------------------------|------------------|---------|
| | Liferay Update: Weather EE Portlet - NOW AVAILABLE | Liferay Support | Thursday, July 25, 2013 | David Wainwright | Actions |
| | Webinar: Aufbereitung von Daten für Dashboard | Jaspersoft Corporation | Wednesday, July 17, 2013 | David Wainwright | Actions |
| | Geschäfts-Tipps für unterwegs auf jedem Gerät | | Monday, July 15, 2013 | David Wainwright | Actions |
| | Optimieren Sie Ihre Geschäftsprozesse mit Alfresco Workdes | | Monday, July 8, 2013 | David Wainwright | Actions |
| | Big Data mit Apache Hadoop - Open-Source- und Plattform-Lösungen von Talend im Vergleich | Talend Webinar | Wednesday, June 26, 2013 | David Wainwright | Actions |

(2 of 3) (Total 13) 5

Personal Sent

New Sort By

- Demo
 - Inbox
 - Drafts
 - Sent items
 - Deleted items
 - Junk mail

| Is read | Subject | Sender | Receiving date | Actions |
|---------|--|-----------------|-----------------------------|---------|
| | Liferay Update: Weather EE Portlet - NOW AVAILABLE | Liferay Support | Thursday, July 25, 2013 | Actions |
| | Signavio Partner Mailing Juli 2012 | | Friday, July 19, 2013 | Actions |
| | Newsletter Januar 2013 | All | Wednesday, January 16, 2013 | Actions |
| | Webinar Einladung - Datenintegration von A bis Z | Talend | Thursday, February 28, 2013 | Actions |
| | Test mail with rich text | Otávio Biasutti | Monday, July 1, 2013 | Actions |

(1 of 2) (Total 7) 5

➤ Calendar: Feature overview



Manage calendars

- Create
- Rename
- Delete



Calendar sharing



Send and receive Invitations



- Accept
- Reject



Reminders



Search by name and time



Copy and move



Reserve resources

Calendar display:



- Year



- Month



- Week

- Day

- List



Appointment categorization

➤ Calendar

NABUCCO
NABUCCO
NABUCCO
GROUPWARE

Mail Contacts Calendar Tasks

liferay.com NABUCCO Groupware Calendar

NABUCCO Groupware - Calendar

September 2013

Today September 2013

Su Mo Tu We Th Fr Sa

1 2 3 4 5 6 7

8 9 10 11 12 13 14

15 16 17 18 19 20 21

22 23 24 25 26 27 28

29 30 1 2 3 4 5

6 7 8 9 10 11 12

Today

Technical rec

Tue, September 17, 1

Details

Display Information

Calendar: Calendar (Exchange) Appointment

Organizer: David Wainwright (david.wainwright@prodyna.com)

Subject: Flug nach FRANKFURT DE

Location: Von BERLIN DE

Date & Time

Starts at: Wednesday, September 18, 2013 06:45

Ends at: Wednesday, September 18, 2013 07:55

All day event

Appointment Reminder

Reminder: 18 hour(s) before start

Description People & Resources Recurrence Attachments More

Buchungscode: 6R5P72
Flugnr.: LH 199
durchgeführt von: LUFTHANSA
Klasse: Economy Class (V)
Von: BERLIN DE TEGEL
Nach: FRANKFURT DE FRANKFURT INTL TERMINAL: 1
Abflug: 18SEP, 19:45

Created on: Thursday, August 22, 2013 01:03
Last modified: Thursday, August 22, 2013 01:03

➤ Contacts: Feature Overview



Manage address books



Manage personal address books



Public address books



Search for contacts



Manage contacts



Manage groups



Manage resources (e.g. rooms)



Copy and move



Visualization of contacts:



- Business card view



- Table view



- Preview (Tooltip)



- Full details



Share address books



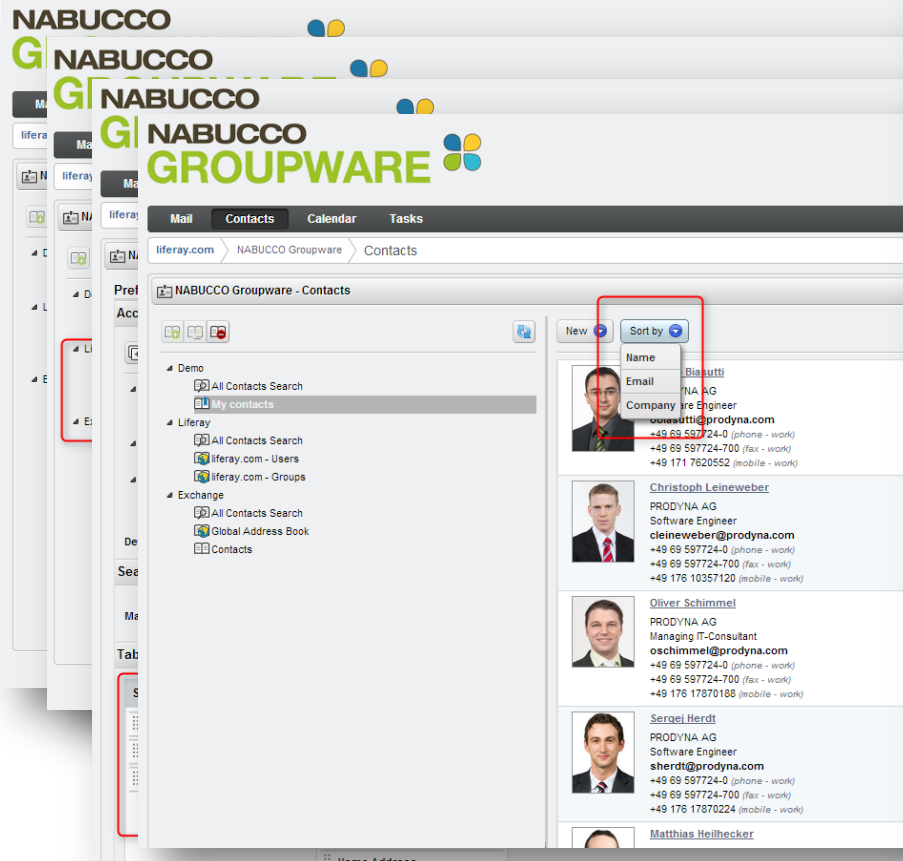
Send contacts (Text/eCard)



Sort by:


Name, Company, Email...

➤ Contacts



Details

Display Information



| | | | |
|---------------------|-----------------------|-------------------|---------------|
| Display Name | Otávio Biasutti | Company | PRODYNA AG |
| Email | obiasutti@prodyna.com | Profession | IT-Consultant |

Full Name

| | | | | |
|--------------|-------------------|--------------------|------------------|---------------|
| Title | First name | Middle name | Last name | Suffix |
| Herr | Otávio | Humberto | Biasutti | |

Home Work Other

More details

| | | |
|-------------------|---|------------------------------|
| Department | Address | Internet & Phones |
| | Street | Phone |
| | Ludwig-Erhard-Straße 12 | +49 69 597724-0 (1) |
| Job title | City | Fax |
| Software Engineer | Eschborn | +49 69 597724-700 (1) |
| Office | State | Website |
| Eschborn | Hessen | http://www.prodyna.com (1) |
| Manager | Postal code | Mobile |
| Hüseyin Cifci | 65760 | +49 171 7620552 (1) |
| Assistant | Country | |
| | Deutschland | |
| | <input type="checkbox"/> Postal address | |

➤ Tasks: Feature Overview



Manage task lists



Manage tasks

- create, delete
- modify
- close



Assign tasks



Mark and classify tasks



Categorize tasks



Search



Copy and move



Task visualization:

- Preview
- List
- Table



Sort by:



- Name



- Priority



- Due date

- and many others

Tasks

NABUCCO GROUPWARE

Mail | Contacts | Calendar | **Tasks**

liferay.com > NABUCCO Groupware > Tasks

Choose the accounts and task lists you would like to display on this portlet.

Preferences

Accounts

Set default | Unset default

- Demo
 - Tasks
- Exchange
 - Tasks

Default task list: (none)

Search

Max. number of entries shown on global searches: 10

Table settings

| Showing columns | Available columns |
|-----------------|-------------------|
| Importance | Total work |
| Subject | Type |
| Owner | Start date |
| Due date | Progress |
| State | Milage |

Details

Subject
Implement gwmock for tasks

Start date
May 5, 2013

Due date
Jun 5, 2013

State
Open

Progress
71.0%

Categories

- Use default behavior of configurable service provider
- Implement gwmock configuration portlet
- Create mock data for container and tasks.

Task details | **Actual Work** | Attachments | Recurrence | Assignment

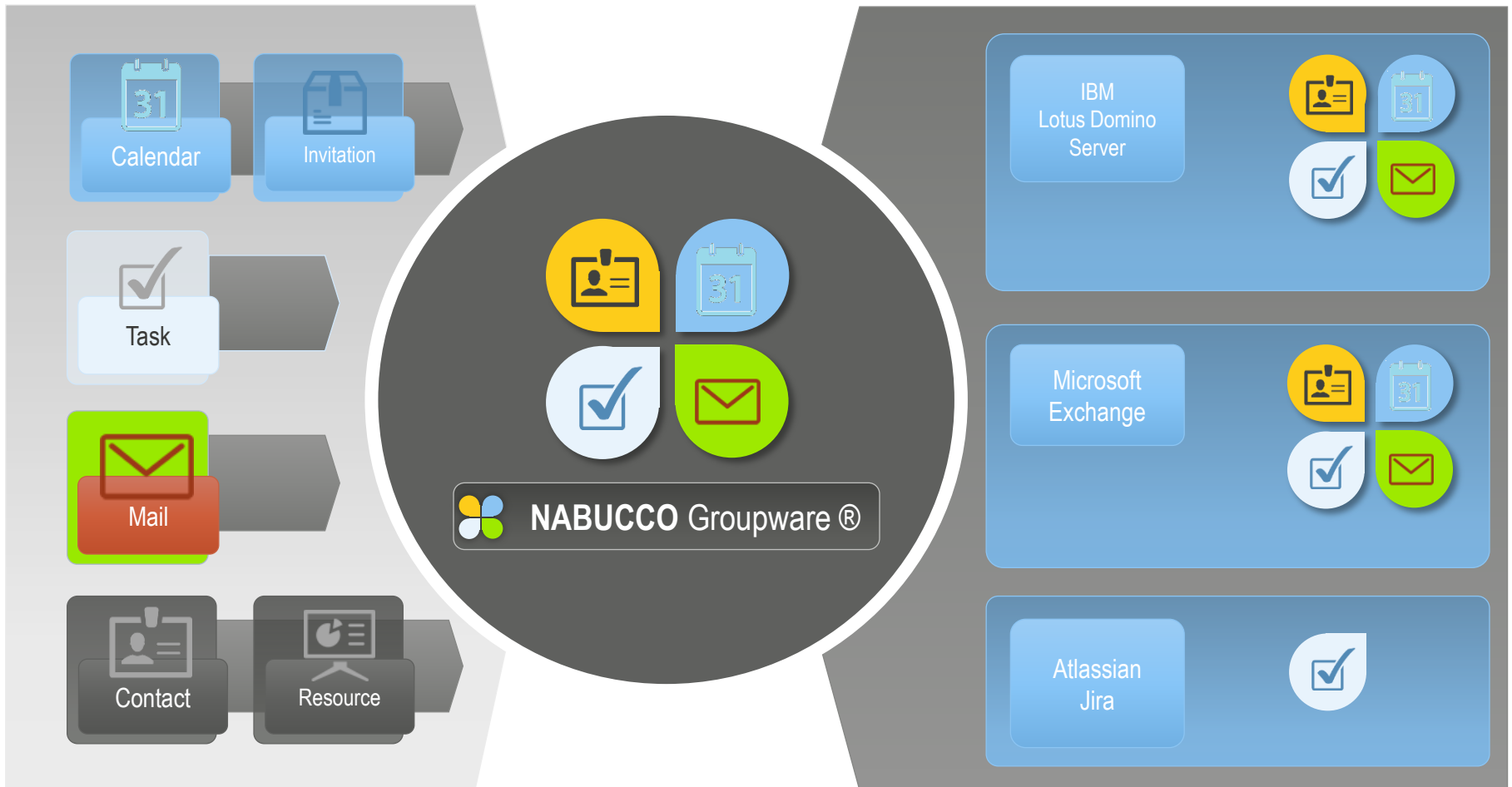
| Actual Work | Milage | Total work | Billing Information |
|-------------|--------|------------|----------------------------------|
| 10 | 10 km | 40 | Die Rechnung geht an PRODYNA AG! |

Companies
PRODYNA AG

Type
Personal task

Creation date: May 5, 2013 1:39:00 AM
Last Modification: May 14, 2013 8:14:00 PM
Owner: Sergej Herdt

➤ Supported multidomain



➤ Liferay plugins package

NABUCCO **DIGITAL WORKPLACE**

NABUCCO
GROUPWARE 

Enterprise Groupware Integration

NABUCCO
MEETINGS

Enterprise Meeting Finder

NABUCCO
IDEAS

Enterprise Innovation Management

NABUCCO
VOTE

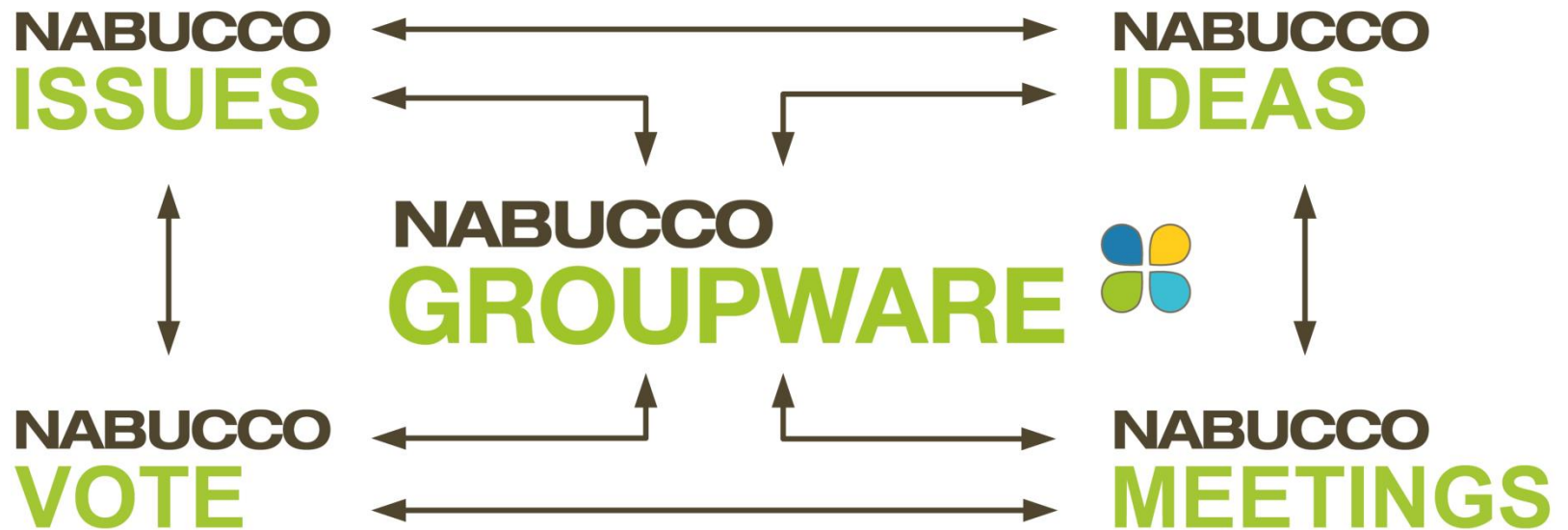
Enterprise Democracy: Voting & Opinions

NABUCCO
ISSUES

Enterprise Atlassian JIRA Integration

➤ The Big Picture: NABUCCO Digital Workplace

- „The value is in the integration“



➤ Benefit

Customer

- Domain features
 - Mail composition
 - Meeting organization
 - Ressource / contacts management
- Synchronization features
 - Import / export
 - Bi-directional synchronization
- UI / API features
 - Widgets for forms
 - Services / policy hooks
 - Extensible metadata mapping

Plugin

- Groupware Support
 - Liferay
 - Remote Alfresco
 - Atlassian JIRA
- Advanced features
 - Migration
 - Integration with social site collaboration tools
 - Actions for rules and workflows
- Custom integrations
 - Alfresco Mobile
 - Alfresco Workdesk

➤ Questions?

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[**prodyna.com**](http://prodyna.com)



[NABUCCO Groupware](#)

PRODYNA AG

Productivity

Free

MS-Exchange® and IBM
Lotus Domino Integration
in Liferay! NABUCCO

<https://www.prodyna.com/groupware>