

# GECAMed

A fully featured open source software for medical  
practice management

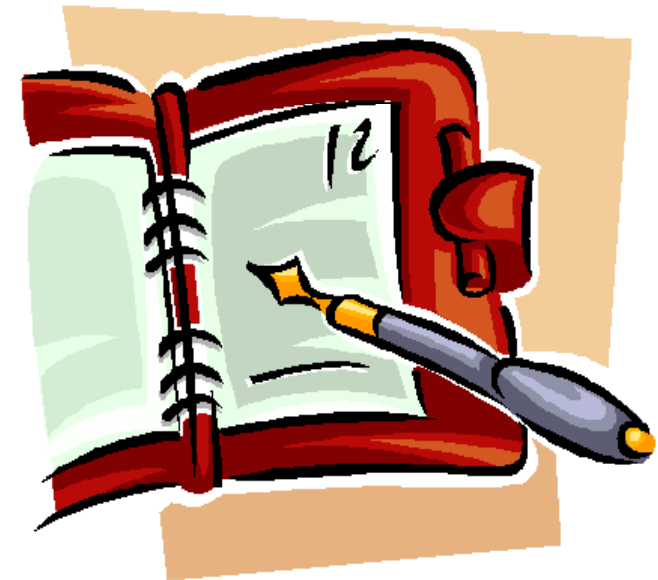
**David Baldacchino**

Centre de Recherche Henri Tudor  
2A, Rue de Kalchesbrück

Phone: +352 42 59 91 – 250  
Fax: +352 42 59 91 – 333

eMail: [David.Baldacchino@tudor.lu](mailto:David.Baldacchino@tudor.lu)  
Site Web: <http://www.santec.tudor.lu>

1. How GECAMed started
2. The process
3. Concepts
4. Main functionalities
5. GECAMed Modules
6. Advantages of GECAMed
7. Partnership
8. Download
9. Questions



## Doctors want

- ✓ **Secure and reliable access to data**
- ✓ **Support**
- ✓ **Independance from software vendors**



# How GECAMed started

The first requirements brought to the need of using an open source software



**2 solutions**

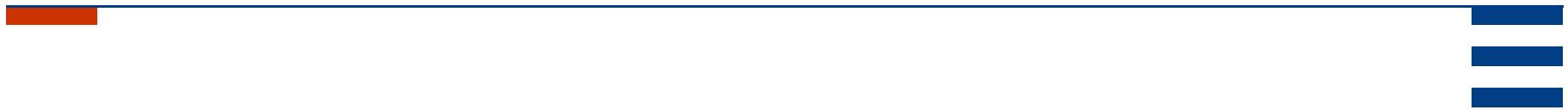


Usage of an existing Open source Software



Implementation of a new Open Source Software

**It's necessary to define a requirement document describing the needs of health professionals**



## 1<sup>st</sup> Possibility

- ✓ Non existing complete software
- ✓ Implementation stopped very often
- ✓ Software often done by dissociate groups of people, no coordination of the work

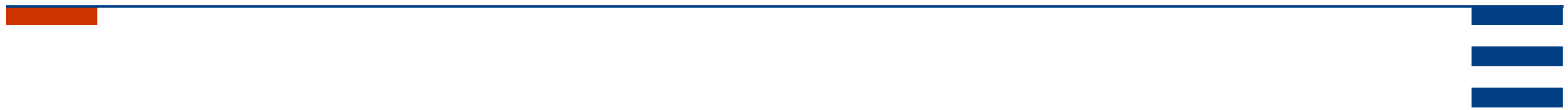


So, we decided to implement a new Open Source Solution



The screenshot shows the GECAMed login window. At the top, it features the logos for Pfizer and AstraZeneca, followed by the text "GECAMed" and "Version: 0.8.0". Below this, there are two input fields: "Nom utilisateur" with a dropdown menu showing "admin" and "Mot de Passe" with a masked password field. A progress bar below the password field indicates "En attente des données utilisateur...". At the bottom left, the text "localhost:1099" is visible. Two buttons, "Annuler" and "OK", are located at the bottom right.

- ✓ **Define the needs of the doctors, with the doctors**
- ✓ **Precise requirement document**
- ✓ **User group consisting doctors**
- ✓ **Financial partners**
- ✓ **Different private companies to provide support to the GECAMed's users**



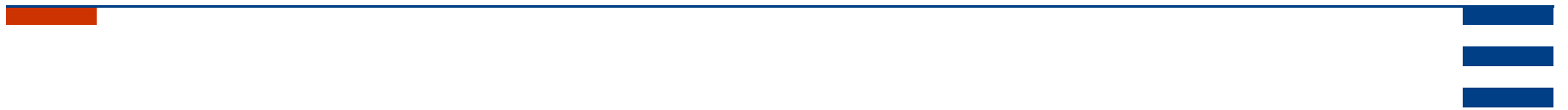
- ✓ **Software to manage medical practice**
- ✓ **Implemented with doctors for doctors**
- ✓ **Different kind of users can be defined**
- ✓ **Multi-lingual**
- ✓ **Can be extended to a high number of users (like in the Medical houses )**



# Main functionalities (1)

---

- ✓ **Management of patients (administrative data)**
- ✓ **Medical history of the patient**
- ✓ **Follow-up of the patients' medical treatments**
- ✓ **Management of the doctors agenda(s)**
- ✓ **Management of the waiting rooms with follow-up of the patient**



- ✓ **Billing, with the possibility to create templates**
- ✓ **Management of Dicom images**
- ✓ **Integration of the Labo solution to exchange laboratory results**
- ✓ **Capable to manage multi:**
  - ✓ **Physicians**
  - ✓ **Secretaries**
  - ✓ **Agendas**
  - ✓ **Waiting-rooms**

# Patient administrative data

**GECAMed - System Administrator @ 158.64.4.167:1099**  
 File Window Patient Billing Agenda Laboratory Admin Tools Settings Help

**Patient: Günther, Karl (19457865 422)**

**General Info:**  
 Social Sec. No: 1945 78 65 422 Day of Birth: Aug 4, 1951 Age: 57  
 Birth Name: Günther Gender: Male  
 Given Name: Karl Place of Birth:   
 Marital name: Title: Mr.

Type: Zip: 9027 Locality: Ettelbrück Street: Rue du Coude Nr.: 55 Country: Luxembourg

Type	Street	Locality	Country	Date
55, Rue du Coude		9027 Ettelbrück	Luxembourg	Jul 5, 2007
55, Place du Marche Aux Bestiaux		6731 Grevenmacher	Luxembourg	Nov 26, 2...

Insurance: CMEA Nr. of Children: 0  
 Complementary Ins.: CMCM-PRESTAPLUS Job: Dipl Betriebswirt  
 Marital Status: married Nationality: Luxembourgish Language: Luxembourgish

**Contact:** Tel: 00352/12548  
 Cellular:   
 Office:   
 Fax:   
 Mail:

**Invoice recipient:** Name:   
 Zip:   
 Locality:   
 Street:   
 Nr.:   
 Country: Luxembourg

**Family:**  
 Spouse: Messer, Mäcki  
 Parents:   
 Childs:

**Additional Info:**  
 Doc: Tommy, Alfr. Creation Date: Jul 5, 2007 2:13:36 PM Modified by: System Administrator Last Modified: Mar 6, 2008 2:39:54 PM

Search List  
 Patient  
 Billing  
 Contacts  
 Agenda  
 Waitingroom  
 Labo  
 Letter Templates  
 Admin  
 Lock

**Navigation:**  
**Functions:**  
 Empty Prescription  
 Print Certificate  
 Attach file  
 New letter  
 Prescription

**Waitingroom:**  
**Agenda:**  
**Billing:**  
 V1-LH003 1C38+X  
 V1-LC001 V3-LC201  
 C11+X V1-LC201  
**Patients:**  
 1: Günther, Karl  
 2:  
 3:  
 4:  
 5:

Jacques, Ivan

**GECAmed - System Administrator @ 158.64.4.167:1099**

File Window Patient Billing Agenda Laboratory Admin Tools Settings Help

**Patient: Günther, Karl (19457865 422) \***

New Consultation 7/10/07 4:12 PM \*

**S Reason of the consultation** Code:   
 Patient berichtet von blutender Wunde an rechtem Daumen, die er sich beim Traubenlesen mit einem Messer zugefügt hat

**Important Data**

**Active Problems:** sdfsdf

**Allergies:** Flour moth [I 203]  
Ruchgras, wohlriechendes [g 1]  
Beans, green [f 132]  
Apricot [f 271]

**Chronicl Treatments:**

Accident No: U2007/65487Dfg45 Date: Jul 3, 2007

**Finding**  
3 cm Schnittwunde an rechten pollex

Sys: 112.0 mmHg Hei: 1.78 m BISu  mg/L  
 Dia: 98.0 mmHg Wht: 78.0 kg BU  cm  
 Pou: 72.0 bpm BMI: 24.618 kg/m<sup>2</sup>

**A Diagnosis** ICD10:   
 Schnittwunde, muss genäht werden. Keine beschädigungen der Knochenhaut und Sehnen.

**P Treatment**  
Nähen und verbinden

**Prescription**

Description:

**Navigation:**

**Functions:**

- Empty Prescription
- Print Certificate
- Attach file
- New letter
- Prescription

**Waitingroom:**

**Agenda:**

**Billing:**

V1-LH003	1C38+X
V1-LC001	V3+LC201
C11+X	V1+LC201

**Patients:**

1: Günther, Karl ^

2:

3:

4:

5:

Lock

Jacques, Ivan

Close History
Save Print

**Date:**  
Mar 13, 2009

**Accident**

Accident Number	Accident Date
-----/-----	Mrz 13, 2009

**Description:**  
Medicine

**Expiry Date:**


**Prescription**


Otriven Nasenspray  
Bei Bedarf


Spamo-Mucosolvan  
3 caps. 3x / jour apres le repas


Otriven Nasenspray  
Bei Bedarf


Spamo-Mucosolvan  
3 caps. 3x / jour apres le repas


  
Medicine


  
Radiography


  
Certificates


  
Physiotherapy

  
Nursing

  
Transferals

  
Biology









  
CEFIP


  
Posology

GECAMed - System Administrator @ 158.64.4.167:1099  
 File Window Patient Billing Agenda Laboratory Admin Tools Settings Help


**Patient: Chatau, Marie (19560104 345)**


**Radiology Record**

Study/Series	Description	Preview
1/1/00 IMT	CT HWS C4-TH2	
DCM 1/1/00 CT	11 img, 512x512px, 5Mb. Dr. Nobody	
1/1/00 IMT	50	
DCM --- CT	5 img, 512x512px, 2Mb. Dr. Nobody	
1/1/00 IMT	LWS-ROUTINE/t1-tse-sag-4mm	
DCM 1/1/00 MR	20 img, 512x512px, 10Mb. Dr. Nobody	
1/1/00 IMT	LWS-ROUTINE/scout	
DCM 1/1/00 MR	6 img, 256x256px, 0Mb. Dr. Nobody	

**Navigation:**  


**Functions:**  
 Empty Prescription  
 Attach DICOM  
 Print Certificate  
 Attach file  
 New letter  
 Prescription

**Waitingroom:**  


**Agenda:**  


**Billing:**  
 V1+LH003 1C38+X  
 V1+LC001 V3+LC201  
 C11+X V1+LC201

**Patients:**  
 1: Chatau, Marie  
 2:  
 3:  
 4:  
 5:

Lock  
 Jacques, Ivan

# Billing

GECAMed - System Administrator @ 158.64.4.167:1099  
 File Window Patient Billing Agenda Laboratory Admin Tools Settings Help

## Billing: New Invoice

**Patient**  
 Social Security Number: 1956 01 04 345 | Patient Name: CHATAU Marie | Marital Name: | Record ID: 000016

**Invoice Properties**  
 Invoice Nr.: 0000160 | Invoice Date: Mrz 13, 2009 | Physician: Jacques, Ivan | Health Insurance: CNS | Third Party Payer: AAI  
 Accident | Accident Number: U2008/----- | Accident Date: Mai 22, 2008

Invoices | Entry \* | Memo | Search | Overdue Notices | Statements | Trash

Date	With Time	Time	Rate	Suffix	Label	Quantity	Amount
13 March 2009	<input checked="" type="checkbox"/>	14:36	V1		Visite du médecin généraliste	1	44.90
13 March 2009	<input checked="" type="checkbox"/>	14:36	LH003	R	Frottis de gorge: recherche d'antigène de streptococcus pyogenes par test direct	1	4.40

Add Act | Remove Act | Browse Acts | Use Template | Save Template | Apply Rules | Save Invoice | Print Invoice | Settle Invoice

Lines	Amount	Payment	Balance	Majoration	Modified by	Last Modified
2	49,30 €	0,00 €	49,30 €	0%	admin	13 March 2009 14:36

Lock | Jacques, Ivan

# Rights Management

**GECAMed - System Administrator @ 158.64.4.167:1099**

File Window Patient Billing Agenda Laboratory Admin Tools Settings Help

**Admin**

Office Management Doctor Management Import Update Nomenclature Laboratory Data Log

Address Import Usermanagement

**Userlist**

ID	Login Name	Full Name	Language	Last Modification	Modified by	Password
1	admin	System Administrator	English	Mar 21, 2005	admin	*****
2	tommy	Dr. Tommy	English	Jul 10, 2007	admin	*****
3	walter	Dr. Walter	German	Jul 10, 2007	admin	*****
6	jacques	Dr Jacques	French	Jul 20, 2007	admin	*****
7	empfang	Sekretärin	German	Nov 27, 2008	admin	*****

save User  
add User  
delete User

**Roles**

ID	Full Name	Set
1	Administrator	<input type="checkbox"/>
2	Physician	<input type="checkbox"/>
3	Secretary	<input checked="" type="checkbox"/>
4	Accounting	<input checked="" type="checkbox"/>
5	Modify Billing	<input checked="" type="checkbox"/>
6	View Billing	<input checked="" type="checkbox"/>
7	Download laboratory results	<input type="checkbox"/>
8	View laboratory results	<input type="checkbox"/>
9	change Physician	<input checked="" type="checkbox"/>

**Permissions**

ID	Full Name	Set
1	permission.AdminModule.viewAdminTab	<input type="checkbox"/>
2	permission.PatientModule.viewPatients	<input checked="" type="checkbox"/>
3	Create new patients	<input checked="" type="checkbox"/>
4	Delete patient	<input type="checkbox"/>
5	permission.PatientModule.editHospitalisations	<input type="checkbox"/>
6	View medical history	<input type="checkbox"/>
7	Modify medical history	<input type="checkbox"/>
8	permission.PatientModule.viewConsultation	<input type="checkbox"/>
9	Edit consultation	<input type="checkbox"/>
10	Create new consultation	<input checked="" type="checkbox"/>
11	View administrativ data	<input checked="" type="checkbox"/>
12	Edit administrative data	<input checked="" type="checkbox"/>
13	permission.PatientModule.viewAnamnesis	<input checked="" type="checkbox"/>
14	Edit anamnesis	<input type="checkbox"/>
15	View own memos	<input type="checkbox"/>
16	Edit own memos	<input type="checkbox"/>
17	View all memos	<input checked="" type="checkbox"/>
18	permission.PatientModule.editAllMemos	<input type="checkbox"/>
19	View invoices	<input checked="" type="checkbox"/>
20	Create new invoices	<input checked="" type="checkbox"/>
21	Verify invoices	<input checked="" type="checkbox"/>
22	Close invoices	<input checked="" type="checkbox"/>
23	Open invoices	<input checked="" type="checkbox"/>
24	Open all invoices	<input checked="" type="checkbox"/>
25	Print invoices	<input checked="" type="checkbox"/>
26	Print open invoices	<input checked="" type="checkbox"/>
27	Remind overdue invoices	<input checked="" type="checkbox"/>
28	Settle invoices	<input checked="" type="checkbox"/>
29	Revoke invoices	<input checked="" type="checkbox"/>
30	permission.BillingModule.cancelInvoices	<input checked="" type="checkbox"/>
31	Edit invoices	<input checked="" type="checkbox"/>
32	Delete invoices	<input checked="" type="checkbox"/>
33	View hospitalized invoices	<input checked="" type="checkbox"/>
34	Create hospitalized invoices	<input checked="" type="checkbox"/>
35	Verify hospitalized invoices	<input checked="" type="checkbox"/>

Search List  
Patient  
Billing  
Contacts  
Agenda  
Waitingroom  
Labo  
Letter Templates  
Admin  
Lock

Jacques, Ivan

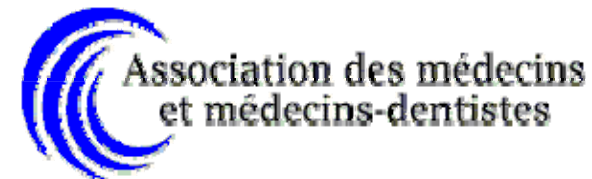
- ✓ **Open Source**
  - ✓ **For free**
  - ✓ **Source code available**
- ✓ **Import of patients data from some software**
- ✓ **Software « all in one »**
- ✓ **Independance of doctors regarding software companies**
- ✓ **Extension for specialists in progress**





LE GOUVERNEMENT  
DU GRAND-DUCHÉ DE LUXEMBOURG  
Ministère de la Culture, de l'Enseignement Supérieur  
et de la Recherche

**Médecins  
Indépendants**



# Download and try GECAMed

---

<http://gecamed.santec.tudor.lu>



**Thank you for your attention**

---

