



Grails Messaging

Interlated Pty. Ltd.
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Slides are at: <http://interlated.com.au/presentations/>





Grails Messaging

Offline Outback Health Care



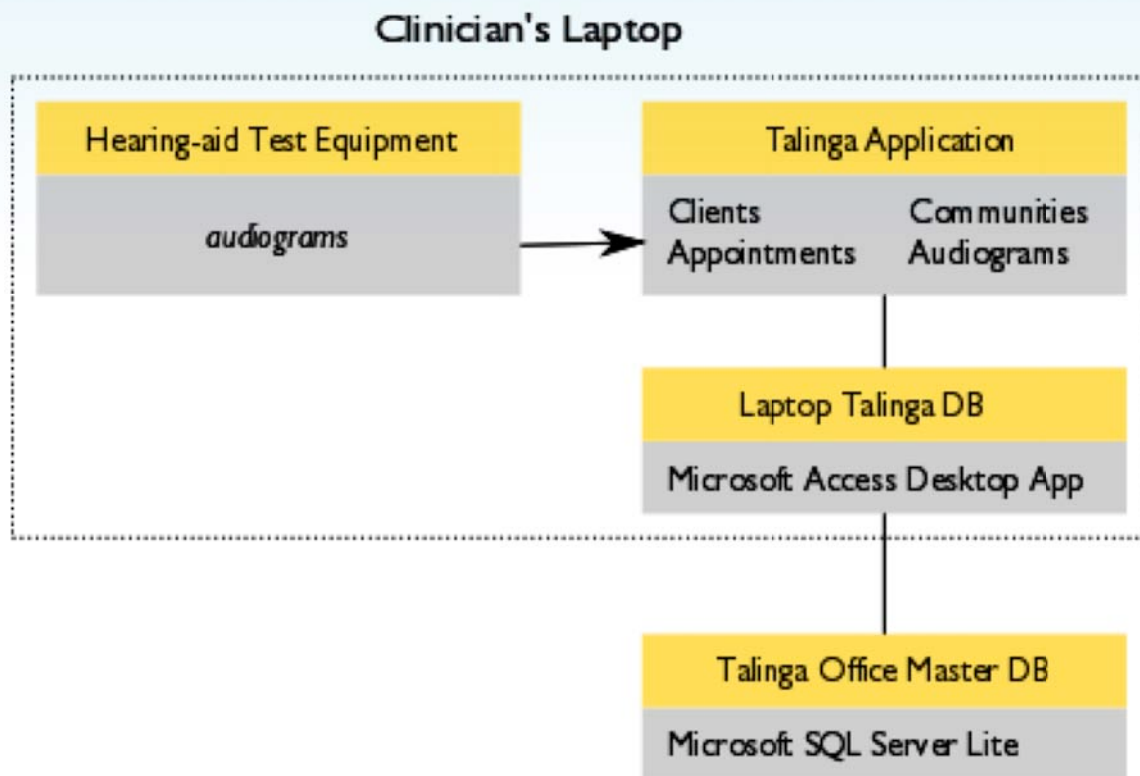
- Australian Hearing provides hearing aids for children, pensioners, and indigenous people
- Maintains 100 fixed retail stores
- Audiologists also visit about 300 sites scattered around Australia lacking 3G, wired network access
- Information systems maintain service-oriented records: client, appointments, service history, voucher history, hearing device order and business monitoring data





Grails Messaging

Talinga: Field Support App



Talinga supports clinical work in the field. The data managed by Talinga includes:

Communities: Primarily Aboriginal or Torres Strait Islander communities.

Clients: CSO clients within those communities, and some clinical records.

Appointments: Calendar kept within the context of a community visit, separate from AHCIS appointments.

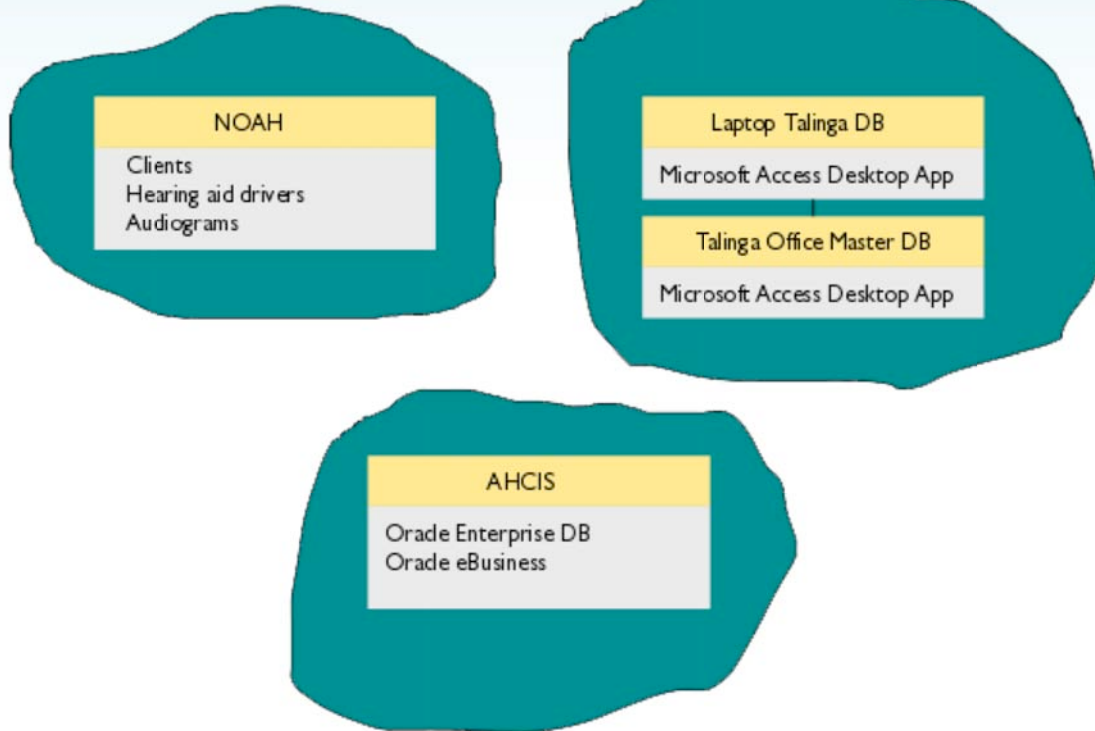
Audiograms: Can be kept within Talinga, but are not necessarily connected with an AHCIS client record.



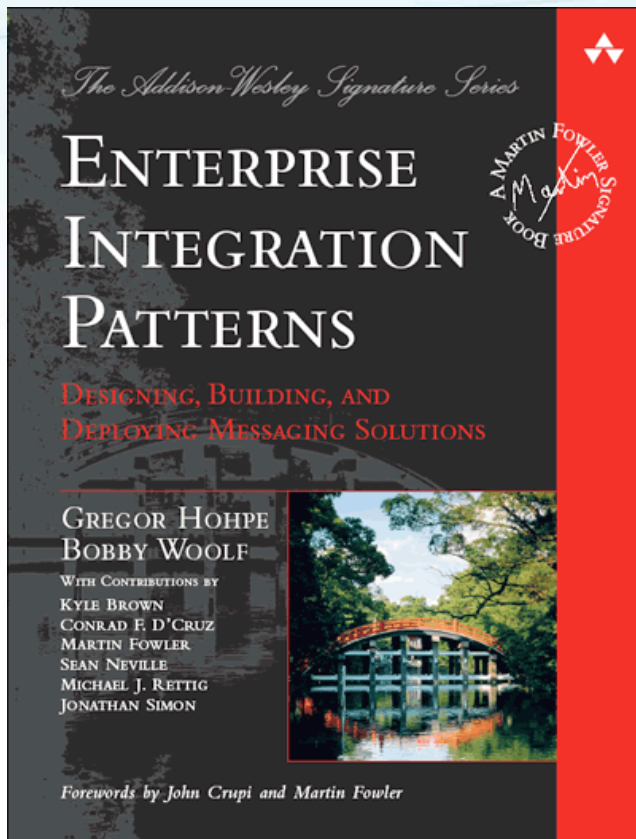


Grails Messaging

Context: Data Islands

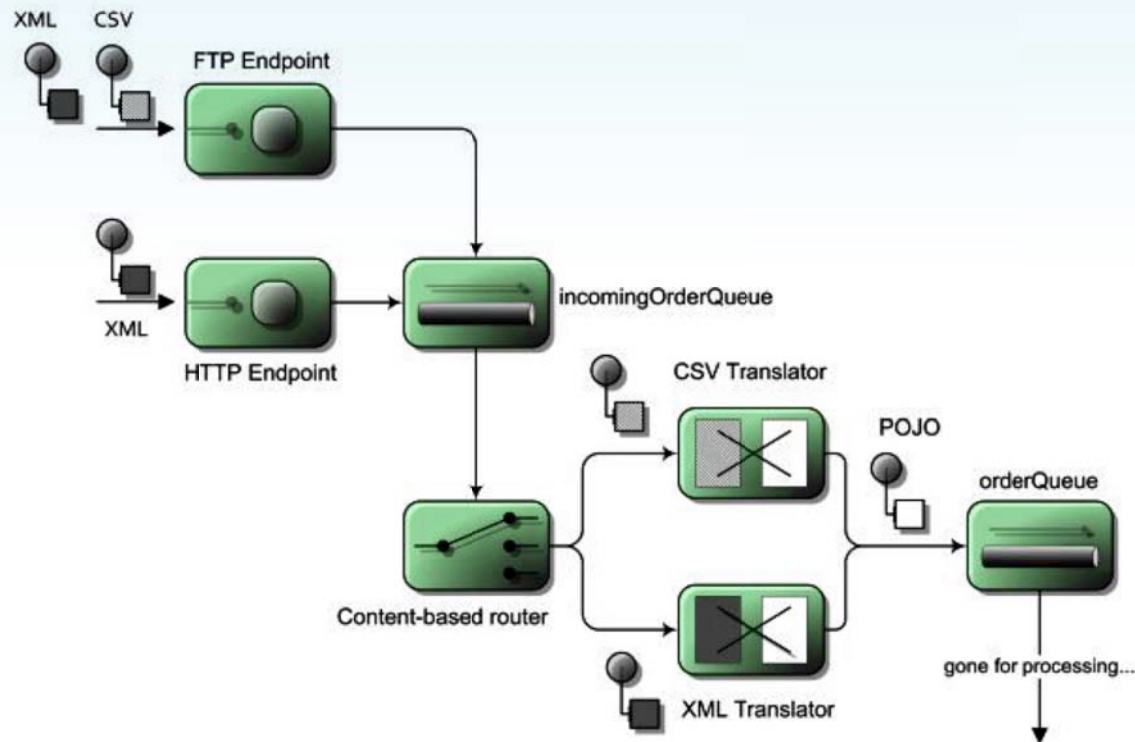


Trolling for Ideas



- Online/Offline and fine granularity essential: message queues
- Sun ESB website referred to Hohpe/Woolf EIP book
- Off and running with Camel, ActiveMQ
- Installation of client side tools on Windows PCs a major consideration
- Erlang / RabbitMQ / Mnesia solution has advantages, but Hearing thought itself a Java shop in part

EIP: Camel Route

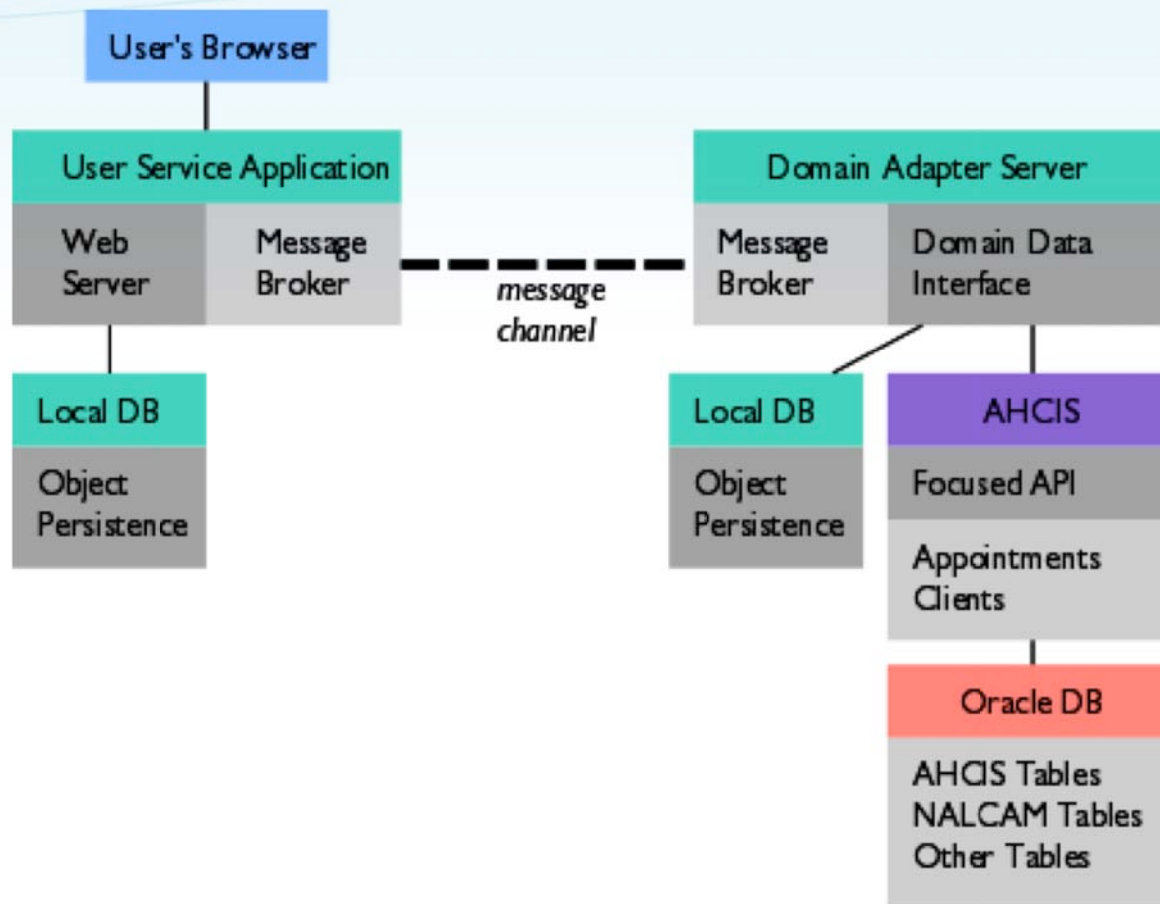


- Example showing Camel route to handle async FTP and XML input to a server
- Notation from EIP book
- From: Jonathan Anstley article: <http://architects.dzone.com/articles/apache-camel-integration>



Grails Messaging

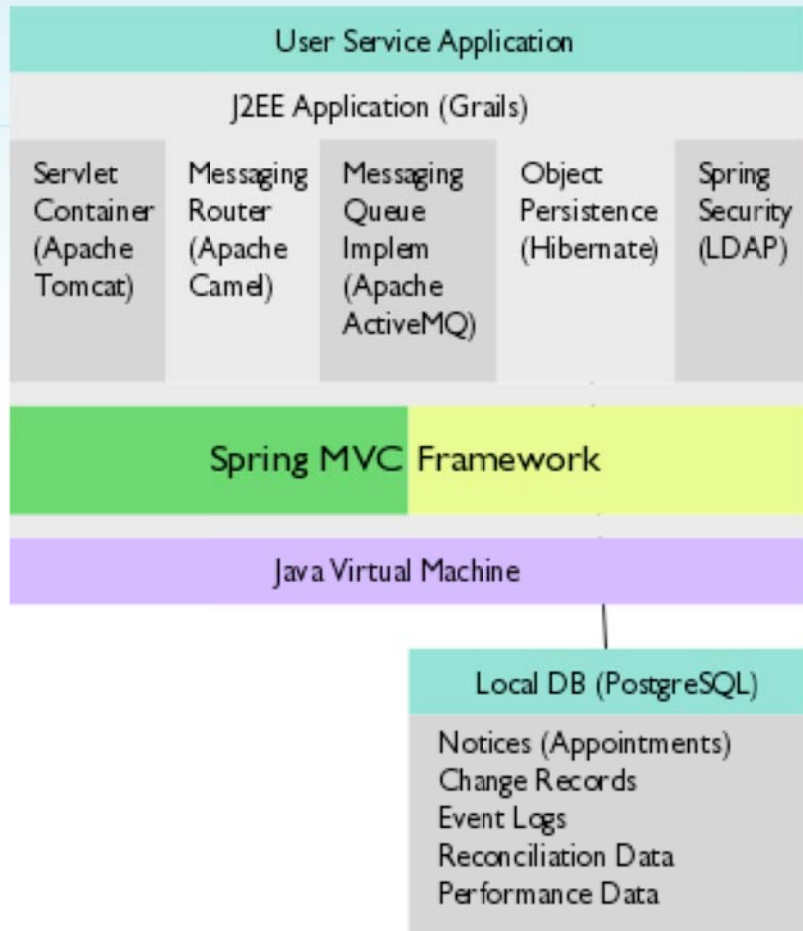
Application Architecture





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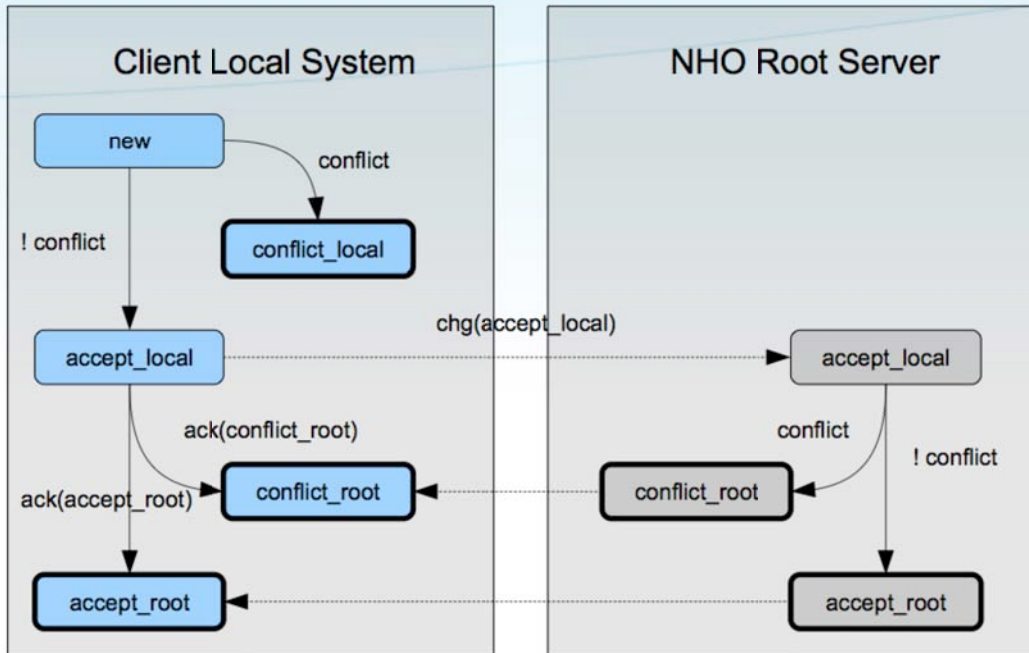
Grails Server Detail



- Standard Grails application on client side
- Messaging introduces great flexibility
- Domain Adapter Server looks just the same without supporting Web App interface (Tomcat)



Distributed Data Update Logic

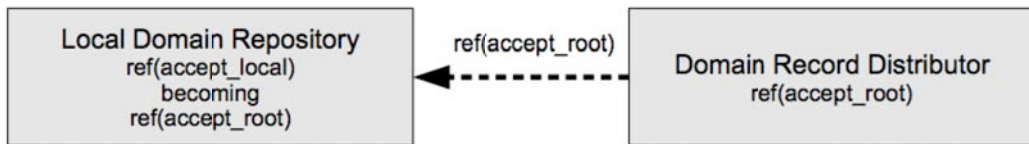


Rounded rectangles refer to states of a data record. Conflicts judged on a field basis.

Work with best approximation of correct data in field until sync from back end arrives ("accept_root" state)

Initial load and back-end changes are pushed to client by publish/subscribe mechanism

Background Transfers





Grails Messaging

Delivered: Phone Marketing

Australian Hearing Australian Hearing Caller Interface You are logged in as: jrobens [Logout](#) [Administer](#)

Client Details

Client

Title*

Given Name*

Family Name*

Gender

Date of Birth

Address

Suburb

State

Postcode [Locate](#)

Phone

Select a Site

Address:
480 DAVID ST
ALBURY NSW 2640
ph: 02 60412044

Appointments


- Tue 10 Aug 04:15PM - SCR, X Angela 11601302
- Wed 11 Aug 09:00AM - SCR, X Angela 11571086
- Wed 11 Aug 09:15AM - SCR, X Angela 11571087
- Wed 11 Aug 09:30AM - SCR, X Angela 11579694
- Wed 11 Aug 09:45AM - SCR, X Angela 11579698
- Wed 11 Aug 02:00PM - SCR, X Angela 11601283
- Wed 11 Aug 02:15PM - SCR, X Angela 11601284
- Wed 11 Aug 02:30PM - SCR, X Angela 11601286
- Wed 11 Aug 02:45PM - SCR, X Angela 11601288
- Thu 12 Aug 09:15AM - SCR, X Angela 11601259
- Thu 12 Aug 09:30AM - SCR, X Angela 11601260
- Thu 12 Aug 11:15AM - SCR, X Angela 11601262
- Thu 12 Aug 11:30AM - SCR, X Angela 11601264
- Thu 12 Aug 11:45AM - SCR, X Angela 11601265
- Thu 12 Aug 02:30PM - SCR, X Angela 11601268

Feedback

- Fri 06 Aug 03:36PM** Client created. Mary Kruse
- Fri 06 Aug 03:34PM** Client created. Roger Kruse
- Fri 06 Aug 03:33PM** Client created. Alison Parsons
- Fri 06 Aug 03:31PM** Client created. Allen Pratt
- Fri 06 Aug 03:07PM** Client created. Neil Carter
- Fri 06 Aug 02:53PM** Client created. Dedrich Studenik
- Fri 06 Aug 02:45PM** Client created. Don Gray
- Fri 06 Aug 02:43PM** Client created. Beverley Gray
- Fri 06 Aug 02:28PM** Client created. Robert Davis

SAVE

Australian Hearing Service desk: 1800 133 575 | Call Centre: 02 5525 3300 | [Feedback](#)





Grails Messaging

Delivered: Geolocating Prospect

Australian Hearing Australian Hearing Caller Interface You are logged in as: jrobens [Logout](#) [Administer](#)

Client Details **Select a Site**

Albury

Client

Title
Given Name
Family Name
Gender
Date of Birth
Address
Suburb
State
Postcode
Phone

Locate

Map Satellite Hybrid Terrain

Feedback

- Fri 06 Aug 0
- Fri 06 Aug 0
- Fri 06 Aug 0
- Fri 06 Aug 0
- Fri 06 Aug 0
- Fri 06 Aug 0
- Fri 06 Aug 0
- Fri 06 Aug 02:45PM Client created. Don Gray
- Fri 06 Aug 02:43PM Client created. Beverley Gray
- Fri 06 Aug 02:28PM Client created. Robert Davis

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Proposed: Notice Driven Interface

- Works just as well for both Talinga field work and static hearing centre
- Only data shown is relevant to context
- Think: Facebook

